HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

For the Period of April 2024- September 2024

For

"Development of Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee villages, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu" over an extent of 215.834 Ha (533.11 Acres)

EC obtained vide Letter No. SEIAA-TN/F.No. 9263/2024 dated: 22/04/2024

Submitted by



M/s. STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LTD, 19/A, Rukmani Lakshmipathy Road,

Egmore, Chennai-600008.

Prepared by



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

November 2024

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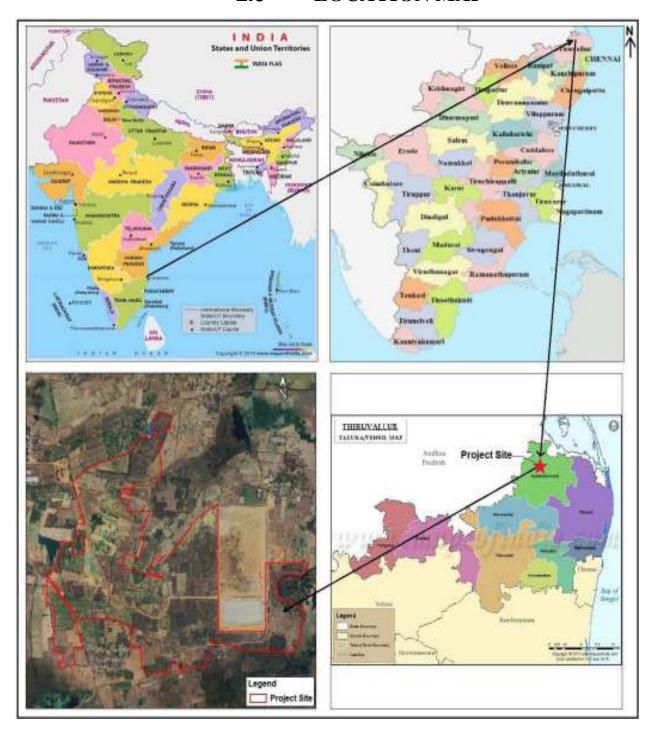
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1.0 PROJECT DETAILS

	Development of Industrial Park with Industrial House				
	Facility at Soorapoondi and Vaniamallee villages,				
Name of the	Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu"				
Project	over a	n extent of 215.834	4 Ha (5	33.11 Acres) by M/s. State	
	Industr	ries Promotion Con	rporatio	n of Tamil Nadu Limited	
	(SIPCO	OT).			
Name of the	M/s.	State Industries Pr	omotio	n Corporation of	
Proponent	Tamil Nadu Limited (SIPCOT)				
Location	Soorapoondi and Vaniamallee villages Gummidipoondi				
Location	Taluk, Thiruvallur District and Tamil Nadu state.				
	(i)	EC Identification	:	EC24B3813TN5100474N	
		No.			
	(ii)	File No.	:	9263	
ECN	(iii)	Clearance Type	:	Fresh EC	
EC No.	(iv)	Category	:	B1	
	(v)	Project/Activity	:	8(b) Townships/ Area	
		Included		Development Projects /	
		Schedule No.		Rehabilitation Centres	
	Enclosed as Annexure 1				
Area Details 215.834 Ha					

Water Requirement	Fresh water: 874 KLD, TTRO water: 2133 KLD and Recycled water: 1782 KLD. Source: a) Fresh water - Letter from TWAD for the supply of 10 MLD raw water supply from SIPCOT Industrial Park at Thervoykandigai vide Letter no. CMWSSB/WT&T/ROII/SIPCOT-Manallur dated: 03.02.2023 b) TTRO water - Letter from TWAD for the supply of 22.70 MLD TTRO water vide Letter no. CMWSSB/CE(O&M)II/STP(N)/45TTRO - KOD/039/SIPCOT - Manallur dated 25.03.2023
Project Cost	INR. 495.52 crores

2.0 LOCATION MAP



3.0 SITE PHOTOGRAPHS









4.0 SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

<u>Specific EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centers)</u>

1. SEAC Conditions - Site Specific

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.1	<u> </u>	
1.	The construction shall comply with Green	Condition noted.
	Building norms and shall get minimum IGBC	
	Gold rating.	
3.	PP shall submit the commitment letter from the	Water Supply letter from CMWSSB is
	local body for supply of fresh water.	enclosed as Annexure-5.
4	The project proponent shall continuously	Condition noted. SIPCOT will provide
	operate and maintain the Sewage treatment	STP only for treating sewage from
	plant & Grey Water Treatment Plant to	Industrial Housing Facility. All the
	achieve the standards prescribed by the	member industries will be mandated to
	TNPCB/CPCB.	provide STP to achieve the standards
		prescribed by the TNPCB/CPCB.
5	The proponent must protect 5 numbers of	Condition noted.
	Ficus trees existing in the site by constructing	
	stone wall fencing around each tree.	
6	STP shall be installed on 10-year BOOT	Condition noted. SIPCOT will provide
	basis, so that the construction and	STP only for treating sewage from
	maintenance are combined in one single	Industrial Housing Facility and operated
	responsibility.	on BOOT basis.
7	The project proponent shall provide entry and	Condition noted.
	exit points for the OSR area, play area as per	
	the norms for the public usage and as	
	committed. The PP shall construct a pond of	
	appropriate size in the earmarked OSR land in	
	consultation with the local body. The pond	
	should be modelled like a temple tank with	

	parapet walls, steps, etc. The pond is meant to	
	play three hydraulic roles, namely	
	(1) as a storage, which acted as insurance	
	against low rainfall periods and also recharges	
	groundwater in the surrounding area,	
	(2) as a flood control measure, preventing	
	soil erosion and wastage of runoff waters	
	during the period of heavy rainfall, and	
	(3) as a device which was crucial to the	
	overall eco-system.	
8.	Project proponent is advised to explore the	Condition noted and will be complied.
	possibility and getting the cement in a closed	1
	container rather through the plastic bag to	
	prevent dust emissions at the time of	
	loading/unloading.	
9.	Project proponent should ensure that there	Condition noted. All the member units
	will be no use of "Single use of Plastic"	will be instructed to follow all applicable
	(SUP).	rules and guidelines.
10.	The proponent should provide the sufficient	Condition noted. All the member units
	electric vehicle charging points as per the	will comply with
	requirements at ground level and allocate the	
	safe and suitable place in the premises for the	
	same.	
11.	The project proponent should develop green	Condition will be complied.
	belt in the township as per the plan submitted	Greenbelt will be developed as per the
	and also follow the guidelines of	layout approval and also follow the
	CPCB/Development authority for green belt	guidelines of CPCB/Development
	as per the norms.	authority for green belt as per the norms.
12.	Project proponent should invest the CSR	Condition will be complied.
	amount as per the proposal and submit the	
	compliance report regularly to the concerned	
	authority/Directorate of environment.	
13.	Proponent should submit the certified	Condition noted. EC has been obtained

	compliance report of previous/present EC	only once for this project.
	along with action taken report to the Regional	
	office MoEF Lko/Director of Environment	
	and other concerning authority regularly.	
14	Proponent shall provide the dual pipeline	Condition noted. All the member units
	network in the project for utilization of treated	will comply with.
	water of STP for different purposes and also	
	provide the monitoring mechanism for the	
	same. STP treated water not to be discharged	
	outside the premises without the permission of	
	the concerned authority.	
15	The project proponent shall provide a	SIPCOT will measure / record the quantity
	measuring device for monitoring the various	of fresh water supply to the individual
	sources of water supply namely fresh water,	industries. All the individual industries will
	treated waste water and harvested rain water.	be instructed to record the treated
		wastewater and rainwater harvesting.
16	The proponent should provide the MoU with	Condition noted. Tertiary Treated Reverse
	STPs' owner/concerned department for	Osmosis (TTRO) water will be supplied by
	getting the STPs treated water for construction	CMWSSB.
	use.	

2. SEIAA Specific Conditions:

2.1		
1.	The PP shall ensure that the proposed	Condition noted.
	activities in no way result any impact on the	
	migratory birds.	
2.	The PP shall ensure that the proposed activity	Condition noted.
	in no way result any impact on the	
	surrounding Agriculture.	
3.	The proponent shall ensure that the buildings	Condition noted.
	should not cause any damage to water Table	
	& natural drainage	
4.	The proponent shall take necessary action to	Condition noted.

reduce anthropogenic GHGs such as CO2,
CH4, nitrous oxide, etc., and temperature rise
resulting from human activities.

3. SEIAA Standard Conditions:

3.1				
Climate Change				
1.	The proponent shall adopt strategies to	Condition noted. It is an infrastructure		
	decarbonize the building.	development project that includes the		
		construction of roads, storm water drainage		
		systems, street lighting, water supply		
		systems, development of green spaces, etc.		
2.	The proponent shall adopt strategies to	Condition noted. It is an infrastructure		
	reduce emissions during operation	development project that includes the		
	(operational phase and building materials).	construction of roads, storm water drainage		
		systems, street lighting, water supply		
		systems, development of green spaces, etc.		
3.	The proponent shall adopt strategies to	Condition noted. It is an infrastructure		
	reduce temperature including the Building	development project that includes the		
	Facade.	construction of roads, storm water drainage		
		systems, street lighting, water supply		
		systems, development of green spaces, etc.		
4.	The proponent shall adopt methodology to	Condition noted. It is an infrastructure		
	control thermal environment and other	development project that includes the		
	shocks in the building.	construction of roads, storm water drainage		
		systems, street lighting, water supply		
		systems, development of green spaces, etc.		
5.	The proponent shall adopt detailed plan to	Condition noted. It is an infrastructure		
	reduce carbon footprints and also develop	development project that includes the		
	strategies for climate proofing and climate	construction of roads, storm water drainage		
	mitigation.	systems, street lighting, water supply		
		systems, development of green spaces, etc.		
6.	The proponent shall adopt strategies to	Condition noted. It is an infrastructure		

	ensure the buildings in blocks are not	development project that includes the
	trapping heat to become local urban heat	construction of roads, storm water drainage
	islands.	systems, street lighting, water supply
		systems, development of green spaces, etc.
7.	The proponent shall ensure that the	Condition noted. It is an infrastructure
	building does not create artificial wind	development project that includes the
	tunnels creating cold water and	construction of roads, storm water drainage
	uncomfortable living conditions resulting	systems, street lighting, water supply
	in health issues.	systems, development of green spaces, etc.
8.	The activities should in no way cause	Condition noted.
	emission and build-up Green House	
	Gases. All actions to be eco-friendly and	
	support sustainable management of the	
	natural resources within and outside the	
	campus premises.	
9.	The proponent shall ensure that the	Condition noted. It is an infrastructure
	buildings should not cause any damage to	development project that includes the
	water environment, air quality and should	construction of roads, storm water drainage
	be carbon neutral building	systems, street lighting, water supply
		systems, development of green spaces, etc.
Heal	th	
10.	The proponent shall adopt strategies to	Condition noted.
	maintain the health of the inhabitants.	
Energ	gy	
11.	The proponent shall adopt strategies to	Condition noted and will be complied.
	reduce electricity demand and	
	consumption.	
12.	The proponent shall provide provisions for	Condition noted and will be complied.
	automated energy efficiency.	
13.	The proponent shall provide provisions for	Condition noted and will be complied.
	controlled ventilation and lighting	
	systems.	
14.	The proponent shall provide solar panels	Condition noted.
	<u>l</u>	

	and contribute to the grid from the solar	
	panel as proposed.	
15.	All the construction of Buildings shall be	Condition noted. All the member units will
	energy efficient and conform to the green	be instructed to follow all applicable rules
	building norms. The PP shall ensure that	and guidelines.
	carbon neutral building.	
16.	The proponent shall provide adequate	Condition noted. All the member units will
	capacity of DG set (standby) for the	be instructed to follow all applicable rules
	proposed STP so as to ensure continuous	and guidelines.
	and efficient operation. Regulatory	
	Frameworks	
17.	The proponent shall adopt methodologies	Condition noted. All the member units will
	to effectively implement the Solid Waste	be instructed to follow all applicable rules
	Management Rules, 2016, E-Waste	and guidelines.
	(Management) Rules, 2016, Plastic Waste	
	Management Rules, 2016 as amended,	
	Bio-Medical Waste Management Rules,	
	2016 as amended, Hazardous and Other	
	Wastes (Management and Transboundary	
	Movement) Rules, 2016 as amended,	
	Construction and Demolition Waste	
	Management Rules, 2016, & Batteries	
	(Management and Handling) Rules, 2001.	
18.	The project proponent shall ensure to	Condition noted. All the member units will
	provide adequate elevated closed area	be instructed to follow all applicable rules
	earmarked for collection, segregation,	and guidelines.
	storage & disposal of wastes generated	
	within the premises as per provisions of	
	Solid Waste Management Rules, 2016, E-	
	Waste (Management) Rules, 2016, Plastic	
	Waste Management Rules, 2016 as	
	amended, Bio-Medical Waste	
	Management Rules, 2016 as amended,	

	Hazardous and Other Wastes	
	(Management and Transboundary	
	Movement) Rules, 2016 as amended,	
	Construction and Demolition Waste	
	Management Rules, 2016, & Batteries	
	(Management and Handling) Rules, 2001.	
19.	The proponent shall provide elevator as	Not applicable. It is an infrastructure
	per rules CMDA/DTCP. Database	development project that includes the
	maintenance & audits	construction of roads, storm water drainage
		systems, street lighting, water supply
		systems, development of green spaces, etc.
Datal	pase maintenance & audits	
20.	The database record of environmental	Condition noted. All the member units will
	conditions of all the events from pre-	be instructed to follow applicable rules and
	construction, construction and post-	guidelines.
	construction should be maintained in	
	digitized format.	
21.	The proponent should maintain	Condition noted
	environmental audits to measure and	
	mitigate environmental concerns.	
Biodi	versity	
22.	There should not be any impact due to the	Condition noted . CER cost of 1.5 crores will
	modification of the habitat on critically	be spent towards biodiversity conservation
	endangered species, biodiversity, etc,.	measures through Forest Department.
23.	The proponent shall ensure that the	Condition noted.
	proposed activities in no way result in the	
	spread of invasive species.	
24.	The proponent shall adopt sustainability	Condition noted.
	criteria to protect the micro environment	
	from wind turbulences and change in	
	aerodynamics since high rise buildings	
	may stagnate air movements.	
25.	The proponent shall ensure almost safety	Condition noted.

	for the existing biodiversity, trees, flora &	
	fauna shall not disturb under any	
	circumstances.	
26.	The proponent shall develop building-	Condition noted
	friendly pest control strategies by using	
	non chemical measures so as to control the	
	pest population thereby not losing	
	beneficial organisms.	
27.	The proponent shall adopt strategies to	Condition noted. All the member units will
	prevent bird hits.	be instructed to follow applicable rules and
		guidelines.
Sofoty	measures	
		Con Peters and All the second area (2)
28.	The proponent should develop an	Condition noted. All the member units will
	emergency response plan in addition to the	be instructed to follow applicable rules and
	disaster management plan.	guidelines.
29.	The proponent shall develop detailed	Condition noted . All the member units will
	evacuation plan for disabled people and	be instructed to follow applicable rules and
	safety evacuation plan in emergencies.	guidelines.
30.	All bio-safety standards, hygienic	Condition noted . All the member units will
	standards and safety norms of working	be instructed to follow applicable rules and
	staff and patients to be strictly followed as	guidelines.
	stipulated in EIA/EMP.	
31.	The disaster management and disaster	Condition noted. All the member units will
	mitigation standards to be seriously	be instructed to follow applicable rules and
	adhered to avoid any calamities.	guidelines.
32.	The proponent shall provide the	Condition noted. All the member units will
	emergency exit in the buildings.	be instructed to follow applicable rules and
		guidelines.
33.	The proponent shall adhere to the	Condition noted. All the member units will
	provision and norms regard to fire safety	be instructed to follow applicable rules and
	prescribed by competent authority	guidelines.
Water	/Sewage	

34.	The proponent shall ensure that no treated	Condition noted . All the member units will
	or untreated sewage shall be let outside the	be mandated to have STP/ETP for treatment
	project site & shall find access to nearby	of sewage/effluent and to reuse the treated
	water-bodies under any circumstances	water within their premises
	other than the permitted mode of disposal.	
35.	The proponent shall provide STP of	Condition noted. All the member units will
	adequate capacity as committed and shall	be mandated to have STP/ETP for treatment
	continuously & efficiently operate STP so	of sewage/effluent and to reuse the treated
	as to satisfy the treated sewage discharge	water within their premises
	standards prescribed by the TNPCB time	
	to time.	
36.	The proponent shall periodically test the	We SIPCOT will periodically test the treated
	treated sewage the through TNPCB lab	sewage the through TNPCB lab /NABL
	/NABL accredited laboratory and submit	accredited laboratory and submit report to the
	report to the TNPCB.	TNPCB.
37.	The proponent shall periodically test the	Condition noted.
	water sample for the general water quality	All the member units will be instructed to
	core parameters including fecal coliform	follow the condition
	within the proposed project site through	
	TNPCB lab /NABL accredited laboratory	
	and submit report to the concerned	
	authorities.	
38.	The proponent shall ensure that provision	Condition noted . All the member units will
	should be given for proper utilization of	be mandated to have STP/ETP for treatment
	recycled water.	of sewage/effluent and to reuse the treated
		water within their premises
39.	The project proponent shall adhere to	Condition will be complied.
	storm water management plan as	
	committed.	
Parki		
40.	The project proponent shall adhere to	SIPCOT will provide Truck Parking within
	provide adequate parking space for visitors	the Industrial Park. Further, Individual
	of all inmates including clean traffic plan	industries will provide parking facility within

	as committed.	their premises.
Solid	waste Management	
41.	The proponent shall ensure that no form of	Condition noted. All the member units will
	municipal solid waste shall be disposed	be instructed to follow applicable rules and
	outside the proposed project site at any	guidelines.
	time.	
42.	The proponent should strictly comply	Condition noted. All the member units will
	with, Tamil Nadu Government order	be instructed to follow applicable rules and
	regarding ban on one time use and	guidelines.
	throwaway plastics irrespective of	
	thickness with effect from 01.01.2019	
	under Environment (Protection) Act, 1986.	
EMP		
43.	The proponent shall ensure that the	Condition noted.
	EIA/EMP and disaster management plan	
	should be adhered strictly.	
44.	The proponent shall ensure that all	Condition noted.
	activities of EMP shall be completed	
	before obtaining CTO from TNPCB.	
45.	The proponent shall provide and ensure	Condition noted.
	the green belt plan is implemented as	
	indicated in EMP. Also, the proponent	
	shall explore possibilities to provide	
	sufficient grass lawns.	
Other	s	
46.	As per the 'Polluter Pay Principle', the	Condition noted.
	proponent will be held responsible for any	
	environmental damage caused due to the	
	proposed activity including withdrawal of	
	EC and stoppage of work.	
47.	The project proponent shall adhere to	Condition noted.
	height of the buildings as committed.	

Standard EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Statut	1. Statutory Compliance		
S. No	EC CONDITIONS	STATUS OF COMPLIANCE	
1.1	The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.	Condition noted. Construction shall be done in accordance with the layout approval obtained from the town planning authority.	
1.2	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.	Condition noted. All the member units will be mandated to follow applicable rules and guidelines.	
1.3	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable. The proposed project does not involve diversion of forest land.	
1.4	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Condition Complied. NBWL recommended the project.	
1.5	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	Condition will be complied. Consent to Establish application Copy is enclosed as Annexure 3.	
1.6	A certificate of adequacy of available power from the agency supplying power	Condition noted.	

	to the project along with the load allowed	
	for the project should be obtained.	
1.7	All other statutory clearances such as the	Condition noted
	approvals for storage of diesel from	
	Chief Controller of Explosives, Fire	
	Department, Civil Aviation Department	
	shall be obtained, as applicable, by	
	project proponents from the respective	
	competent authorities.	
1.8	The provisions of the Solid Waste	Condition noted. All the member units will be
	Management Rules, 2016, e-Waste	mandated to follow applicable rules and
	(Management) Rules, 2016, and the	guidelines.
	Plastics Waste Management Rules, 2016,	
	shall be followed.	
1.9	The project proponent shall follow the	Condition noted. All the member units will be
	ECBC/ECBC-R prescribed by Bureau of	mandated to follow applicable rules and
	Energy Efficiency, Ministry of Power	guidelines.
	strictly.	
2. Air Q	uality Monitoring And Preservation	
2.1	Notification GSR 94(E) dated 25.01.2018	Condition noted . All the member units will be
	of MoEF&CC regarding Mandatory	mandated to follow applicable rules and
	Implementation of Dust Mitigation	guidelines.
	Measures for Construction and	
	Demolition Activities for projects	
	requiring Environmental Clearance shall	
	be complied with.	
2.2	A management plan shall be drawn up	Individual industries will be instructed to
	and implemented to contain the current	comply with their statutory approvals /
	exceedance in ambient air quality at the	clearances.
	site.	Ambient Air Monitoring Reports are enclosed
		as Annexure - 4.
2.3	The project proponent shall install	Individual industries will be instructed to
	system to carryout Ambient Air Quality	comply with their statutory approvals /

	monitoring for common/criterion	clearances.
	C	
	parameters relevant to the main	Ambient Air Monitoring Reports are enclosed
	pollutants released (e.g. PM10 and	as Annexure - 4.
	PM2.5) covering upwind and downwind	
	directions during the construction period.	
2.4	Diesel power generating sets proposed as	Condition noted . All the member units will be
	source of backup power should be of	mandated to follow applicable rules and
	enclosed type and conform to rules made	guidelines.
	under the Environment (Protection) Act,	
	1986. The height of stack of DG sets	
	should be equal to the height needed for	
	the combined capacity of all proposed	
	DG sets. Use of low sulphur diesel. The	
	location of the DG sets may be decided	
	with in consultation with State Pollution	
	Control Board.	
2.5	Construction site shall be adequately	Condition noted . All the member units will
	barricaded before the construction	comply with
	begins. Dust, smoke & other air pollution	
	prevention measures shall be provided	
	for the building as well as the site. These	
	measures shall include screens for the	
	building under construction, continuous	
	dust/ wind breaking walls all around the	
	site (at least 3-meter height).	
	Plastic/tarpaulin sheet covers shall be	
	provided for vehicles bringing in sand,	
	cement, murram and other construction	
	materials prone to causing dust pollution	
	at the site as well as taking out debris	
	from the site.	
2.6		Condition noted.
2.0	Sand, murram, loose soil, cement, stored	Condition noted.
	on site shall be covered adequately so as	
	to prevent dust pollution.	

2.7	Wet jet shall be provided for grinding	Condition noted.
	and stone cutting.	
2.8	Unpaved surfaces and loose soil shall be	Condition noted
	adequately sprinkled with water to	
	suppress dust.	
2.9	All construction and demolition debris	Condition noted.
	shall be stored at the site (and not	All the member units will be mandated to
	dumped on the roads or open spaces	follow applicable rules and guidelines.
	outside) before they are properly	
	disposed. All demolition and	
	construction waste shall be managed as	
	per the provisions of the Construction	
	and Demolition Waste Management	
	Rules 2016.	
2.10	The diesel generator sets to be used	Condition noted.
	during construction phase shall be low	
	sulphur diesel type and shall conform to	
	Environmental (Protection) prescribed	
	for air and noise emission standards.	
2.11	The gaseous emissions from DG set shall	Condition noted.
	be dispersed through adequate stack	
	height as per CPCB standards. Acoustic	
	enclosure shall be provided to the DG	
	sets to mitigate the noise pollution. Low	
	sulphur diesel shall be used. The location	
	of the DG set and exhaust pipe height	
	shall be as per the provisions of the	
	Central Pollution Control Board (CPCB)	
	norms.	
2.12	For indoor air quality the ventilation	Condition noted.
	provisions as per National Building Code	All the member units will be mandated to
	of India.	follow applicable rules and guidelines.
3. Water	Quality Monitoring And Preservation	

3.1	The natural drain system should be	Condition will be complied.
	maintained for ensuring unrestricted flow	
	of water. No construction shall be	
	allowed to obstruct the natural drainage	
	through the site, on wetland and water	
	bodies. Check dams, bio-swales,	
	landscape, and other sustainable urban	
	drainage systems (SUDS) are allowed for	
	maintaining the drainage pattern and to	
	harvest rain water.	
3.2	Buildings shall be designed to follow the	Condition noted
	natural topography as much as possible.	
	Minimum cutting and filling should be	
	done.	
3.3	Total fresh water use shall not exceed the	Condition noted
	proposed requirement as provided in the	
	project details.	
3.4	The quantity of fresh water usage, water	Condition noted
	recycling and rainwater harvesting shall	The Industrial Park is in construction phase.
	be measured and recorded to monitor the	
	water balance as projected by the project	
	proponent. The record shall be submitted	
	to the Regional Office, MoEF&CC along	
	with six monthly Monitoring reports.	
3.5	A certificate shall be obtained from the	Water Supply letter from CMWSSB copy is
	local body supplying water, specifying	enclosed as Annexure 5.
	the total annual water availability with	
	the local authority, the quantity of water	
	already committed, the quantity of water	
	allotted to the project under consideration	
	and the balance water available.	
3.6	At least 20% of the open spaces as	Condition noted.
	required by the local building bye-laws	

	shall be pervious. Use of Grass pavers,	
	paver blocks with at least 50% opening,	
	landscape etc. would be considered as	
	pervious surface.	
3.7	Installation of dual pipe plumbing for	Condition noted.
	supplying fresh water for drinking,	Individual industries will comply with.
	cooking and bathing etc and other for	
	supply of recycled water for flushing,	
	landscape irrigation, car washing,	
	thermal cooling, conditioning etc. shall	
	be done.	
3.8	Use of water saving devices/fixtures (viz.	Condition noted.
	low flow flushing systems; use of low	Individual industries will comply with.
	flow faucets tap aerators etc) for water	
	conservation shall be incorporated in the	
	building plan.	
3.9	Separation of grey and black water	Condition noted.
	should be done by the use of dual	Individual industries will comply with.
	plumbing system. In case of single stack	
	system separate recirculation lines for	
	flushing by giving dual plumbing system	
	be done.	
3.10	Water demand during construction	Condition will be complied.
	should be reduced by use of pre-mixed	
	concrete, curing agents and other best	
	practices referred.	
3.11	The local bye-law provisions on rain	Condition noted.
	water harvesting should be followed. If	All the member units will be instructed to
	local bye-law provision is not available,	follow applicable rules and guidelines.
	adequate provision for storage and	
	recharge should be followed as per the	
	Ministry of Urban Development Model	
	Building Byelaws, 2016. Rain water	

	harvesting recharge pits/storage tanks	
	shall be provided for ground water	
	recharging as per the CGWB norms.	
3.12	A rain water harvesting plan needs to be	Condition noted
	designed where the recharge bores of	
	minimum one recharge bore per 5,000	
	square meters of built up area and storage	
	capacity of minimum one day of total	
	fresh water requirement shall be	
	provided. In areas where ground water	
	recharge is not feasible, the rain water	
	should be harvested and stored for reuse.	
3.13	All recharge should be limited to shallow	Condition noted
	aquifer.	
3.14	No ground water shall be used during	Condition noted
	construction phase of the project.	
3.15	Sewage shall be treated in the STP with	Condition noted.
	tertiary treatment. The treated effluent	SIPCOT will provide STP only for treating
	from STP shall be recycled/re-used for	sewage from Industrial Housing and all the
	flushing, AC make up water and	member industries will be mandated to provide
	gardening. As proposed, no treated water	STP to reuse the treated sewage for green belt
	shall be disposed in to municipal drain.	development.
3.16	No sewage or untreated effluent water	Condition noted.
	would be discharged through storm water	All the member industries will be mandated to
	drains.	adopt Zero Liquid Discharge system.
3.17	Onsite sewage treatment of capacity of	Condition noted.
	treating 100% waste water to be	SIPCOT will provide STP only for treating
	installed. The installation of the Sewage	sewage from Industrial Housing and all the
	Treatment Plant (STP) shall be certified	member industries will be mandated to provide
	by an independent expert and a report in	STP to reuse the treated sewage for green belt
	this regard shall be submitted to the	development.
	Ministry before the project is	
	commissioned for operation. Treated	

	waste water shall be reused on site for	
	landscape, flushing, cooling tower, and	
	other end-uses. Excess treated water shall	
	be discharged as per statutory norms	
	notified by Ministry of Environment,	
	Forest and Climate Change. Natural	
	treatment systems shall be promoted.	
3.18	Periodical monitoring of water quality of	Condition noted.
	treated sewage shall be conducted.	All the member units will be instructed to
	Necessary measures should be made to	follow applicable rules and guidelines.
	mitigate the odour problem from STP.	
3.19	Sludge from the onsite sewage treatment,	Condition noted.
	including septic tanks, shall be collected,	All the member units will be instructed to
	conveyed and disposed as per the	follow applicable rules and guidelines.
	Ministry of Urban Development, Central	
	Public Health and Environmental	
	Engineering Organization (CPHEEO)	
	Manual on Sewerage and Sewage	
	Treatment Systems, 2013.	
4. Noise	Monitoring And Prevention	
4.1	Ambient noise levels shall conform to	Condition noted.
	residential area/commercial	Noise Level Monitoring Reports are enclosed as
	area/industrial area/silence zone both	Annexure - 4.
	during day and night as per Noise	
	Pollution (Control and Regulation)	
	Rules, 2000. Incremental pollution loads	
	on the ambient air and noise quality shall	
	be closely monitored during construction	
	phase. Adequate measures shall be made	
	to reduce ambient air and noise level	
	during construction phase, so as to	
	conform to the stipulated standards by	
	CPCB / SPCB.	
<u> </u>		

4.2	Noise level survey shall be carried as per	Condition will be complied.
	the prescribed guidelines and report in	Noise Level Monitoring Reports are enclosed as
	this regard shall be submitted to Regional	Annexure - 4.
	Officer of the Ministry as a part of six-	
	monthly compliance report.	
4.3	Acoustic enclosures for DG sets, noise	Condition noted.
	barriers for ground-run bays, ear plugs	All the member units will be instructed to
	for operating personnel shall be	follow applicable rules and guidelines.
	implemented as mitigation measures for	
	noise impact due to ground sources.	
5. Energ	y Conservation Measures	
5.1	Compliance with the Energy	Condition noted.
	Conservation Building Code (ECBC) of	All the member units will be instructed to
	Bureau of Energy Efficiency shall be	follow applicable rules and guidelines.
	ensured. Buildings in the States which	
	have notified their own ECBC, shall	
	comply with the State ECBC.	
5.2	Outdoor and common area lighting shall	Condition will be complied
	be LED.	
5.3	Concept of passive solar design that	Condition noted.
	minimize energy consumption in	All the member units will be instructed to
	buildings by using design elements, such	follow applicable rules and guidelines.
	as building orientation, landscaping,	
	efficient building envelope, appropriate	
	fenestration, increased day lighting	
	design and thermal mass etc. shall be	
	incorporated in the building design. Wall,	
	window, and roof u-values shall be as per	
	ECBC specifications.	
5.4	Energy conservation measures like	Condition noted.
	installation of CFLs/ LED for the lighting	All the member units will be instructed to
	the area outside the building should be	follow applicable rules and guidelines.
	integral part of the project design and	

	should be in place before project	
	commissioning.	
6. Waste	e Management	
6.1	A certificate from the competent	Condition noted.
	authority handling municipal solid	
	wastes, indicating the existing civic	
	capacities of handling and their adequacy	
	to cater to the M.S.W. generated from	
	project shall be obtained.	
6.2	Disposal of muck during construction	Condition noted.
	phase shall not create any adverse effect	All the member units will be instructed to
	on the neighbouring communities and be	follow applicable rules and guidelines.
	disposed taking the necessary precautions	
	for general safety and health aspects of	
	people, only in approved sites with the	
	approval of competent authority.	
6.3	Separate wet and dry bins must be	Condition will be complied.
	provided in each unit and at the ground	All the member units will be instructed to
	level for facilitating segregation of waste.	follow applicable rules and guidelines.
	Solid waste shall be segregated into wet	
	garbage and inert materials.	
6.4	Organic waste compost/Vermiculture	Condition noted.
	pit/Organic Waste Converter within the	All the member units will be instructed to
	premises with a minimum capacity of 0.3	follow applicable rules and guidelines.
	kg /person/day must be installed.	
6.5	All non-biodegradable waste shall be	Condition will be complied.
	handed over to authorized recyclers for	All member units will comply with.
	which a written tie up must be done with	
	the authorized recyclers.	
6.6	Any hazardous waste generated during	Condition noted.
	construction phase, shall be disposed off	All the member units will be instructed to
	as per applicable rules and norms with	follow applicable rules and guidelines.
	necessary approvals of the State	

	Pollution Control Board.	
6.7	Fly ash should be used as building	Condition noted.
	material in the construction as per the	All the member units will be instructed to
	provision of Fly Ash Notification of	follow applicable rules and guidelines.
	September, 1999 and amended as on 27th	
	August, 2003 and 25th January, 2016.	
	Ready mixed concrete must be used in	
	building construction.	
6.8	Any wastes from construction and	Condition noted.
	demolition activities related thereto shall	All the member units will be instructed to
	be managed so as to strictly conform to	follow applicable rules and guidelines.
	the Construction and Demolition Waste	
	Management Rules, 2016.	
6.9	Used CFLs and TFLs should be properly	Condition noted.
	collected and disposed off/sent for	All the member units will be instructed to
	recycling as per the prevailing	follow applicable rules and guidelines.
	guidelines/ rules of the regulatory	
	authority to avoid mercury	
	contamination.	
7. Green	1 Cover	
7.1	No tree can be felled/transplant unless	Condition noted
	exigencies demand. Where absolutely	
	necessary, tree felling shall be with prior	
	permission from the concerned	
	regulatory authority. Old trees should be	
	retained based on girth and age	
	regulations as may be prescribed by the	
	Forest Department. Plantations to be	
	ensured species (cut) to species (planted).	
7.2	A minimum of 1 tree for every 80 sqm of	Condition will be complied
	land should be planted and maintained.	
	The existing trees will be counted for this	
	purpose. The landscape planning should	

	include plantation of native species. The	
	species with heavy foliage, broad leaves	
	and wide canopy cover are desirable.	
	Water intensive and/or invasive species	
	should not be used for landscaping.	
7.3	Where the trees need to be cut with prior	Condition noted
	permission from the concerned local	
	Authority, compensatory plantation in	
	the ratio of 1:10 (i.e. planting of 10 trees	
	for every 1 tree that is cut) shall be done	
	and maintained. Plantations to be ensured	
	species (cut) to species (planted). Area	
	for green belt development shall be	
	provided as per the details provided in	
	the project document.	
7.4	Topsoil should be stripped to a depth of	Condition noted
	20 cm from the areas proposed for	
	buildings, roads, paved areas, and	
	external services. It should be stockpiled	
	appropriately in designated areas and	
	reapplied during plantation of the	
	proposed vegetation on site.	
8. Trans	port	
8.1	A comprehensive mobility plan, as per	Condition noted.
	MoUD best practices guidelines	All the member units will be instructed to
	(URDPFI), shall be prepared to include	follow applicable rules and guidelines.
	motorized, non-motorized, public, and	
	private networks. Road should be	
	designed with due consideration for	
	environment, and safety of users. The	
	road system can be designed with these	
	basic criteria. a. Hierarchy of roads with	
	proper segregation of vehicular and	

	pedestrian traffic. b. Traffic calming	
	measures. c. Proper design of entry and	
	exit points. d. Parking norms as per local	
	regulation.	
8.2	Vehicles hired for bringing construction	Condition noted.
	material to the site should be in good	All the member units shall comply with.
	condition and should have a pollution	
	check certificate and should conform to	
	applicable air and noise emission	
	standards be operated only during non-	
	peak hours.	
9.		1
9.1	A detailed traffic management and traffic	Condition noted.
	decongestion plan shall be drawn up to	All the member units shall comply with.
	ensure that the current level of service of	
	the roads within a 05 kms radius of the	
	project is maintained and improved upon	
	after the implementation of the project.	
	This plan should be based on cumulative	
	impact of all development and increased	
	habitation being carried out or proposed	
	to be carried out by the project or other	
	agencies in this 05 Kms radius of the site	
	in different scenarios of space and time	
	and the traffic management plan shall be	
	duly validated and certified by the State	
	Urban Development department and the	
	P.W.D./ competent authority for road	
	augmentation and shall also have their	
	consent to the implementation of	
	components of the plan which involve	
	the participation of these departments.	
10. Hu	man Health Issues	1

10.1	All workers working at the construction	Condition noted.
	site and involved in loading, unloading,	All the member units shall comply with.
	carriage of construction material and	
	construction debris or working in any	
	area with dust pollution shall be provided	
	with dust mask.	
10.2	For indoor air quality the ventilation	Condition noted.
	provisions as per National Building Code	All the member units shall comply with.
	of India.	
10.3	Emergency preparedness plan based on	Condition noted.
	the Hazard identification and Risk	All the member units shall comply with.
	Assessment (HIRA) and Disaster	
	Management Plan shall be implemented.	
10.4	Provision shall be made for the housing	Condition noted.
	of construction labour within the site	All the member units shall comply with.
	with all necessary infrastructure and	
	facilities such as fuel for cooking, mobile	
	toilets, mobile STP, safe drinking water,	
	medical health care, crèche etc. The	
	housing may be in the form of temporary	
	structures to be removed after the	
	completion of the project.	
10.5	Occupational health surveillance of the	Condition noted.
	workers shall be done on a regular basis.	All the member units shall comply with.
10.6	A First Aid Room shall be provided in	Condition will be complied.
	the project both during construction and	All the member units shall comply with.
	operations of the project.	
11. Miso	cellaneous	
11.1	The project proponent shall prominently	Condition Complied.
	advertise it at least in two local	Newspaper Advertisement Copy is enclosed as
	newspapers of the District or State, of	Annexure – 2.
	which one shall be in the vernacular	
	language within seven days indicating	

	that the project has been accorded	
	environment clearance and the details of	
	MoEFCC/SEIAA website where it is	
	displayed.	
11.2	ii. Environmental clearance shall be	Condition complied. Acknowledgement copy
	submitted by the project proponents to	from local bodies and government office for
	the Heads of local bodies, Panchayats	submission of clearance letter is enclosed as
	and Municipal Bodies in addition to the	Annexure – 7.
	relevant offices of the Government who	
	in turn has to display the same for 30	
	days from the date of receipt.	
11.3	The project proponent shall upload the	Condition noted
	status of compliance of the stipulated	
	environment clearance conditions,	
	including results of monitored data on	
	their website and update the same on	
	half-yearly basis.	
11.4	The project proponent shall submit six-	Condition noted.
	monthly reports on the status of the	
	compliance of the stipulated	
	environmental conditions on the website	
	of the ministry of Environment, Forest	
	and Climate Change at environment	
	clearance portal.	
11.5	The company shall have a well laid down	Condition complied.
	environmental policy duly approved by	Separate environmental management cell has
	the Board of Directors. The	been assigned and will report to the General
	environmental policy should prescribe	Manager, SIPCOT who will report directly to
	for standard operating procedures to have	the Head of the Organization for
	proper checks and balances and to bring	implementation monitoring and compliance of
	into focus any	the environmental safeguards. Details of
	infringements/deviation/violation of the	Environmental Management Cell with Roles
	environmental/forest/wildlife	and Responsibilities are enclosed as Annexure

	/ 1',' 771	0
	norms/conditions. The company shall	-8.
	have defined system of reporting	
	infringements/deviation/violation of the	
	environmental/forest/wildlife	
	norms/conditions and/or	
	shareholders/stake holders. The copy of	
	the board resolution in this regard shall	
	be submitted to the MoEF&CC as a part	
	of six-monthly report.	
11.6	A separate Environmental Cell both at	Condition complied.
	the project and company head quarter	Separate environmental management cell has
	level, with qualified personnel shall be	been assigned and will report to the General
	set up under the control of senior	Manager, SIPCOT who will report directly to
	Executive, who will directly report to the	the Head of the Organization for
	head of the organization.	implementation monitoring and compliance of
		the environmental safeguards. Details of
		Environmental Management Cell with Roles
		and Responsibilities are enclosed as Annexure
		- 8.
11.7	Action plan for implementing EMP and	Condition noted
	environmental conditions along with	
	responsibility matrix of the company	
	shall be prepared and shall be duly	
	approved by competent authority. The	
	year wise funds earmarked for	
	environmental protection measures shall	
	be kept in separate account and not to be	
	diverted for any other purpose. Year wise	
	progress of implementation of action plan shall be reported to the	
	Ministry/Regional Office along with the	
11.0	Six Monthly Compliance Report	
11.8	The project proponent shall submit the	Condition will be Complied.
	environmental statement for each	

	financial year in Form-V to the	
	concerned State Pollution Control Board	
	as prescribed under the Environment	
	(Protection) Rules, 1986, as amended	
	subsequently and put on the website of	
	the company.	
11.9	The project proponent shall inform the	Condition noted
	Regional Office as well as the Ministry,	
	the date of financial closure and final	
	approval of the project by the concerned	
	authorities, commencing the land	
	development work and start of	
	production operation by the project.	
11.10	The project authorities must strictly	Condition noted
	adhere to the stipulations made by the	
	State Pollution Control Board and the	
	State Government.	
11.11	The project proponent shall abide by all	Condition noted.
	the commitments and recommendations	
	made in the EIA/EMP report and also	
	that during their presentation to the State	
	Expert Appraisal Committee.	
11.12	No further expansion or modifications in	Condition noted.
	the plant shall be carried out without	
	prior approval of the Ministry of	
	Environment, Forest and Climate Change	
	(MoEF&CC)/SEIAA-TN.	
11.13	Concealing factual data or submission of	Condition noted
	false/fabricated data may result in	
	revocation of this environmental	
	clearance and attract action under the	
	provisions of Environment (Protection)	
	Act, 1986.	

11.14	The Ministry/SEIAA-TN may revoke or	Condition noted
	suspend the clearance, if implementation	
	of any of the above conditions is not	
	satisfactory.	
11.15	The Ministry/SEIAA-TN reserves the	Condition noted
	right to stipulate additional conditions if	
	found necessary. The Company in a time	
	bound manner shall implement these	
	conditions.	
11.16	The Regional Office of this Ministry	Condition noted
	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.	
11.17	The above conditions shall be enforced,	Condition noted.
	inter-alia under the provisions of the	All the member units will be instructed to
	Water (Prevention & Control of	follow all necessary rules and guidelines.
	Pollution) Act, 1974, the Air (Prevention	
	& Control of Pollution) Act, 1981, the	
	Environment (Protection) Act, 1986,	
	Hazardous and Other Wastes	
	(Management and Transboundary	
	Movement) Rules, 2016, and the Public	
	Liability Insurance Act, 1991 along with	
	their amendments and Rules and any	
	other orders passed by the Hon'ble	
	Supreme Court of India / High Courts	
	and any other Court of Law relating to	
	the subject matter.	
11.18	Any appeal against this EC shall lie with	Condition noted.
	the National Green Tribunal, if preferred,	

within a period of 30 days as prescribed
under Section 16 of the National Green
Tribunal Act, 2010.

5.0 ENVIRONMENTAL MONITORING DETAILS

It is mandatory to submit Six Monthly Compliance Report (Half Yearly Compliance) to MoEF & CC Regional Office by the proponent. For the purpose of submitting Six-Monthly Compliance report, environmental monitoring was carried out at site by M/s. Hubert Enviro Care Systems Pvt. Ltd. an NABL Accredited Laboratory during the period of **April 2024- September 2024.**

5.1 Ambient Air Quality monitoring

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 - 4.

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 - 4.**

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 - 4.**

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 bore well water collected and analyzed is enclosed as **Annexure- 4**.

5.5 Surface water quality monitoring

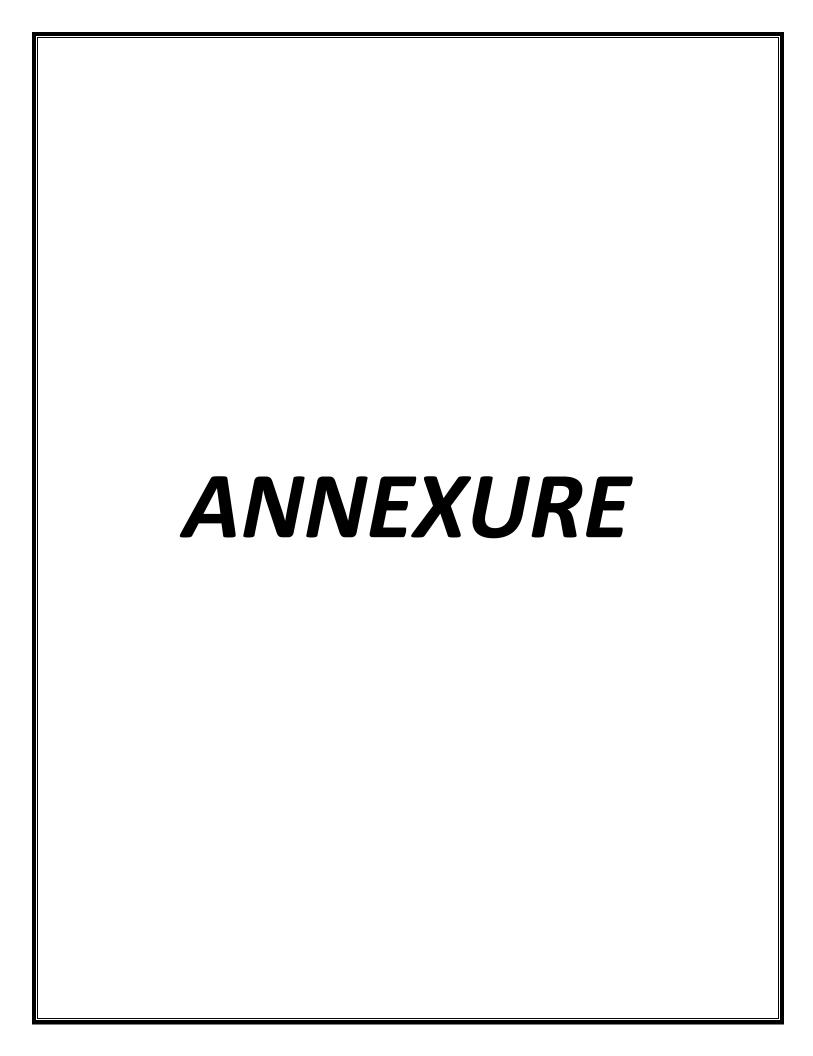
The surface water was collected and tested for various water quality parameters during the period of **April 2024- September 2024.** The test report of surface water collected and analyzed is enclosed as **Annexure 4**.

6.0 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





File No: 9263

Government of India

Ministry of Environment, Forest and Climate Change (Issued by the State Environment Impact Assessment Authority(SEIAA), TAMIL NADU)





Date 22/04/2024



To,

Managing Director

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED

19-A, Rukmani Lakshmipathy Road, Egmore, Chennai , Egmore, CHENNAI, TAMIL NADU, Egmore,

600008

md@sipcot.in

Subject:

Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application for Proposed Development of Industrial Park with Industrial Housing Facility over an extent of 215.834 Ha (533.11 Acres) at Soorapoondi Village S.F.Nos. 65/1, 181, 182, 183, 184, 185, 186, 187, 188, 189/1, 190, 192, 213pt, 214pt, 215, 216, 217, 218pt, 219pt, 220pt, 221pt, 227/1pt, 227/2pt, 227/3pt, 228/1pt, 228/2pt, 228/3pt, 235pt & Vaniamallee Village S.Nos. 31/1, 31/2, 31/3, 31/4, 31/5, 31/6, 36, 38/1, 41/3, 41/4, 41/12, 41/20, 142/1, 175/2, 175/3, 175/4, 176/1, 176/2, 176/3, 177, 178/1, 179, 180/1, 180/2, 180/3, 180/4, 180/5, 180/6, 181/1, 181/2, 181/3, 181/4, 182, 183, 184, 185, 188/2, 188/3, 188/4, 188/5, 189/1, 189/2, 189/3, 189/4, 197/2, 198/1, 199, 200, 201, 202, 203/1, 204/10, 205/2, 206, 207/1, 207/2, 207/3, 207/4, 207/5, 207/6, 207/7, 207/8, 207/9, 208/1, 208/2, 208/3, 208/4, 208/5, 208/6, 209, 210, 211, 212, 213pt, 214pt, 215, 216, 217/1, 218pt, 219pt, 221pt, 222pt, 223pt, 225pt, 226pt, 228/1 of Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu by M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT) submitted to SEIAA-TN vide proposal number SIA/TN/INFRA2/463400/2024 dated 23/02/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

Ref:

- 1. ToR issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.9263/SEAC/ToR-1213/2022 dated:14.07.2022
- 2. ToR amendment issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.9263/SEAC/ToR-1213/2022/Amendment/2023 dated:06.11.2023
- 3. Online Proposal No. SIA/TN/INFRA2/463400/2024, dated 20.02.2024 for EC
- 4. EIA report submitted dated: 21.02.2024
- 2. The particulars of the proposal are as below:

(i) EC Identification No. EC24B3813TN5100474N

(ii) File No.9263(iii) Clearance TypeFresh EC

(iv) Category B1

(v) Project/Activity Included Schedule No.

8(b) Townships/ Area Development Projects /

Rehabilitation Centres

(vii) Name of Project

Development of Industrial Park with Industrial
Housing Facility at Soorapoondi and Vaniamallee
villages, Gummidipoondi Taluk, Thiruvallur

District, Tamil Nadu

(viii) Name of Company/Organization

STATE INDUSTRIES PROMOTION

CORPORATION OF TAMILNADU LIMITED

(ix) Location of Project (District, State) THIRUVALLUR, TAMIL NADU

(x) Issuing Authority SEIAA

(xi) Applicability of General Conditions as per

EIA Notification, 2006

No

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the Ministry for an appraisal by the State Environment Impact AssessmentAuthority(SEIAA) under the provision of EIA notification 2006 and its subsequent amendments.

- 4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 01/04/2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.
- 5. The SEAC, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc., & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard EC conditions as detailed in the point below.
- 6. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the SEAC hereby accords Environment Clearance for the instant proposal to Mr. Raam Mohan K under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (2)
- 7. The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary.
- 8. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
- 9. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
- 10. Validity of EC is for a period of 7 years from the date of issue of EC. In case the project proponent fails to complete the construction/proposed activities within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006 and its amendment

11. Salient features of the proposal are as follows:

S. No	Description	Details
1.	Name of the Project	"Development of Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee villages, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu" over an extent of 215.834 Ha (533.11 Acres) by M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT).

2.	Location	Soorapoondi and Vaniamallee villages Gummidipoondi Taluk, Thiruvallur District and Tamil Nadu state.
3.	Type of Project	Category – 8(b)
4.	Latitude & Longitude	13°25″24.17″N, 80° 2′12.45″E
5.	Total Plot Area (in sq. m)	215.834 Ha (533.11 Acres)
n 1	Brief description of the project	The Environmental Clearance is sought for "Development of Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee villages, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu" over an extent of 215.834 Ha (533.11 Acres) by M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)
7.	Built up area details	Not applicable – It is infrastructure development project
ıx ı	Maximum height of the project	18.2
9 1		Industrial park - based on industrial units Industrial Housing – G+4
	01 110013	Industrial park - based on industrial units
10.	No. of blocks	Industrial Housing – 4 towers
11.	Permissib <mark>le FSI area</mark>	
12.	Propose <mark>d FSI area</mark>	F 1 V E -0
13.	Cost of Project	INR. 495.52 crores
114.1	No. of Saleable Units	Not applicable. Total developable area is 533.11 Acres (215.834 Ha) which includes Industrial plot area, Industrial Housing, Other Common facilities, Greenbelt, SWM, Road, Storm Water Drain, OSR and such other infrastructure facilities.
15.	Expected Population	Construction phase - 100 Nos. Operation phase - 10,800 Nos (including 1,920 Nos for industrial housing during operation phase)
16.	•	4789 KLD (Fresh water: 874 KLD, TTRO water: 2133 KLD and Recycled water: 1782 KLD)
	b) Source	Source: a. Fresh water - Letter from TWAD for the supply of 10 MLD raw water supply from SIPCOT Industrial Park at Thervoykandigai vide Letter no. CMWSSB/WT&T/RO-II/SIPCOT-Manallur dated: 03.02.2023 b. TTRO water - Letter from TWAD for the supply of 22.70 MLD TTRO water vide Letter no. CMWSSB/CE(O&M)II/STP(N)/45TTRO - KOD/039/SIPCOT - Manallur dated 25.03.2023
18.	Details of Sewage generation and Treatment	• Sewage from industries - will be treated by individual industries and used for green beig
19.	Details of greywater	 Total Effluent Generation: 1193 KLD Treatment Method: Effluent from Industries - Will be treated by individual industries and reused for process and utilities. ZLD will be maintained by individual industries, if necessary. Effluent from Industries - SIPCOT will provide ETP of capacity 1300 KLD.
	Mode of Disposal of	

		Descriptio		Det	ails		Unit
		Total Solid	Waste	4.860			TPD
		Generation Organia wasta		2 ()16		TDD
21.	Quantity of Solid Waste generation, Mode of treatment and Disposal	manure for green belt development.					
Quantity of E-Waste generation, Mode of treatment Disposal Disposal Quantity of E-Waste such used PC, equipment, sensor, controller, etc) will be generated from the programment from the programmen				Authorized E			
		Industrial housing) Waste					
	\ \tau_{\tau}	Schedule	Waste Type	Quantity	1	Method of Dispo	osal
	Quantity of	Yellow	Soiled wastes	6.5 kg/month	Will be sent to TNPCB Authorized common Biomedical waste Management Facility for Incineration		
23.	Quantity of Biomedical Waste generation, Mode of treatment and	Red	Contaminated wastes	4.7 kg/month	l	Fill be sent to TNPCB A mon Biomedical waste Facility for sterilize	Management
	Disposal	White	Waste sharps including metals	0.3 kg/month	comi	Vill be sent to TNPCB A mon Biomedical waste Facility for shredding &	Management
		Blue	Glassware	1.8 kg/month	Will be sent to TNPCB Authorized common Biomedical waste Management Facility for disinfection & recycling		
			CR				
		Co /	Hazardous waste gen	eration fro	m SEZ	Z & its management	
	Quantity of	Hazardous v	vaste schedule & type	Quant	ity	Method of Di	sposal
24.	Hazardous Waste generation, Mode of		Used /Spent Oil	0.5KL	/A	Will be sent to TNPC recyclers/ver	
	treatment and 33.3-Empty Disposal contami		arrels/ containers/ liners ated with hazardous micals/wastes	5 nos/Annum		Will be sent to TNPC recyclers	
25.	Power requirement	22 MVA (Source: TANGEDCO)					
26.	Details of solar energy	50% of total roof coverage 1) Solar panels will be proposed in the roof top of Project office. Solar power will be utilized					
27.	Details of D.G. set						

	Details of Green	
	Belt Area	
	i) Total area of	
	green belt	
	ii) No. of trees	I. Greenbelt Area – 77.883 Ha (192.37 Acres)
28	existing within the	II. Existing Tree – 6,117 Nos.
20	project site	III. Tree cut - 0 Nos.
	iii) No. of trees	IV. Tree going to be planted – 1,46,027 Nos.
	proposed to be	
	planted	
	iv) No. of trees to be	
	transplanted / cut	
29	-	27.737 Ha (68.51 acres) (12.85%)
20	Details of Parking	Truck parking is provided in Common amenities area by SIPCOT and Individual units will
30	- 1	also have their own parking space within their Site.
		• Rain water Harvesting pit proposed = 3522 nos
		• The capacity of the Rain water harvesting pit has been calculated as 1.18 m3 (Assuming
31	Provision for rain	50% percolation rate).
	water harvesting	• Storm water will be collected in RWH pits through storm water drains and only excess
		storm water will be let into nearby water bodies after filtration.
		Capital cost-34.59 Crores
32	IEMP Cost (Rs.)	Recurring cost/annum-67 lakhs
-		Rs. 1.5 Crores.
22		
33		As accepted by the project proponent, amount shall be spent for the conservation measures
		towards Pulicat Bird Sanctuary in consultation with the State Wildlife Warden, Chennai.

12. General Instructions:

- (a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- (b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- (c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing 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.
- (d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
- (e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- (f) The Regional Office of this Ministry 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.
- (g) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 13. This issues with the approval of the Competent Authority.

Copy To

1. The Additional Chief Secretary to Government, Environment, Climate Change and Forests Department, Govt. of Tamil

Nadu, Fort St. George, Chennai - 9.

- 2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
- 3. The Chairperson, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
- 4. Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi 110003.
- 5.Stock File.

Annexure 1

Specific EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Seac Conditions - Site Specific

S. No	EC Conditions
1.1	1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating. 3. PP shall submit the commitment letter from the local body for supply of fresh water. 4. The project proponent shall continuously operate and maintain the Sewage treatment plant & Grey Water Treatment Plant to achieve the standards prescribed by the TNPCB/CPCB. 5. The proponent must protect 5 numbers of Ficus trees existing in the site by constructing stone wall fencing around each tree. 6. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility. 7. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system. 8. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading. 9. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP). 10. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same. 11. The project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment. 12. Project proponent should invest the CSR amou

2. Seiaa Specific Conditions:

S. No	EC Conditions
2.1	 The PP shall ensure that the proposed activities in no way result any impact on the migratory birds. The PP shall ensure that the proposed activity in no way result any impact on the surrounding Agriculture. The proponent shall ensure that the buildings should not cause any damage to water Table & natural drainage. The proponent shall take necessary action to reduce anthropogenic GHGs such as CO2, CH4, nitrous oxide, etc., and temperature rise resulting from human activities.

3. Seiaa Standard Conditions:

S. No	EC Conditions
	Climate Change
	1. The proponent shall adopt strategies to decarbonize the building.
	2. The proponent shall adopt strategies to reduce emissions during operation (operational phase ar building materials).
	3. The proponent shall adopt strategies to reduce temperature including the Building Façade.
	4. The proponent shall adopt methodology to control thermal environment and other shocks in the building.
	5. The proponent shall adopt detailed plan to reduce carbon footprints and also develop strategic for climate proofing and climate mitigation.
	6. The proponent shall adopt strategies to ensure the buildings in blocks are not trapping heat become local urban heat islands.
	7. The proponent shall ensure that the building does not create artificial wind tunnels creating co water and uncomfortable living conditions resulting in health issues.
	8. The activities should in no way cause emission and build-up Green House Gases. All actions
	be eco-friendly and support sustainable management of the natural resources within and outside the campus premises.
	9. The proponent shall ensure that the buildings should not cause any damage to water environment
.1	air quality and should be carbon neutral building.
	Health
	10. The proponent shall adopt strategies to maintain the health of the inhabitants.
	Energy
	11. The proponent shall adopt strategies to reduce electricity demand and consumption.
	12. The proponent shall provide provisions for automated energy efficiency.
	13. The proponent shall provide provisions for controlled ventilation and lighting systems.
	14. The proponent shall provide solar panels and contribute to the grid from the solar panel
	proposed.
	15. All the construction of Buildings shall be energy efficient and conform to the green buildings.
	norms. The PP shall ensure that carbon neutral building.
	16. The proponent shall provide adequate capacity of DG set (standby) for the proposed STP so
	to ensure continuous and efficient operation.
	Regulatory Frameworks
	17. The proponent shall adopt methodologies to effectively implement the Solid Was
	Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rule
	2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Oth

S. No **EC Conditions** Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001. 18. The project proponent shall ensure to provide adequate elevated closed area earmarked for collection, segregation, storage & disposal of wastes generated within the premises as per provisions of Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001. 19. The proponent shall provide elevator as per rules CMDA/DTCP. Database maintenance & audits 20. The database record of environmental conditions of all the events from pre-construction, construction and post-construction should be maintained in digitized format. 21. The proponent should maintain environmental audits to measure and mitigate environmental concerns. **Biodiversity** 22. There should not be any impact due to the modification of the habitat on critically endangered species, biodiversity, etc,.. 23. The proponent shall ensure that the proposed activities in no way result in the spread of invasive species. 24. The proponent shall adopt sustainability criteria to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements. 25. The proponent shall ensure almost safety for the existing biodiversity, trees, flora & fauna shall not disturb under any circumstances. 26. The proponent shall develop building-friendly pest control strategies by using non chemical measures so as to control the pest population thereby not losing beneficial organisms. 27. The proponent shall adopt strategies to prevent bird hits. Safety measures 28. The proponent should develop an emergency response plan in addition to the disaster management plan. 29. The proponent shall develop detailed evacuation plan for disabled people and safety evacuation plan in emergencies. 30. All bio-safety standards, hygienic standards and safety norms of working staff and patients to be strictly followed as stipulated in EIA/EMP. 31. The disaster management and disaster mitigation standards to be seriously adhered to avoid any 32. The proponent shall provide the emergency exit in the buildings. 33. The proponent shall adhere to the provision and norms regard to fire safety prescribed by competent authority. Water/Sewage 34. The proponent shall ensure that no treated or untreated sewage shall be let outside the project site & shall find access to nearby water-bodies under any circumstances other than the permitted mode of disposal. 35. The proponent shall provide STP of adequate capacity as committed and shall continuously & efficiently operate STP so as to satisfy the treated sewage discharge standards prescribed by the TNPCB time to time. 36. The proponent shall periodically test the treated sewage the through TNPCB lab /NABL accredited laboratory and submit report to the TNPCB.

37. The proponent shall periodically test the water sample for the general water quality core parameters including fecal coliform within the proposed project site through TNPCB lab /NABL

38. The proponent shall ensure that provision should be given for proper utilization of recycled

accredited laboratory and submit report to the concerned authorities.

S. No	EC Conditions
	water.
	39. The project proponent shall adhere to storm water management plan as committed.
	Parking
	40. The project proponent shall adhere to provide adequate parking space for visitors of all inmates
	including clean traffic plan as committed.
	Solid waste Management
	41. The proponent shall ensure that no form of municipal solid waste shall be disposed outside the
	proposed project site at any time.
	42. The proponent should strictly comply with, Tamil Nadu Government order regarding ban on one
	time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under
	Environment (Protection) Act, 1986.
	EMP
	43. The proponent shall ensure that the EIA/EMP and disaster management plan should be adhered strictly.
	44. The proponent shall ensure that all activities of EMP shall be completed before obtaining CTO
	from TNPCB.
	45. The proponent shall provide and ensure the green belt plan is implemented as indicated in EMP.
	Also, the proponent shall explore possibilities to provide sufficient grass lawns.
	Others
	46. As per the 'Polluter Pay Principle', the proponent will be held responsible for any
	environmental damage caused due to the proposed activity including withdrawal of EC and
	stoppage of work.
	47. The project proponent shall adhere to height of the buildings as committed.

Standard EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Statutory Compliance

S. No	EC Conditions
1.1	The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
1.2	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
1.3	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
1.4	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.5	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
1.6	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.

S. No	EC Conditions		
1.7	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.		
1.8	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.		
1.9	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.		

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2.2	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
2.3	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.
2.4	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
2.5	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
2.6	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
2.7	Wet jet shall be provided for grinding and stone cutting.
2.8	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
2.9	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.

S. No	EC Conditions
2.10	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
2.11	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
2.12	For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
3.2	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3.3	Total fresh water use shall not exceed the proposed requirement as provided in the project details.
3.4	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
3.5	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available.
3.6	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
3.7	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
3.8	Use of water saving devices/fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
3.9	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
3.10	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

S. No	EC Conditions
3.11	The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
3.12	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse.
3.13	All recharge should be limited to shallow aquifer.
3.14	No ground water shall be used during construction phase of the project.
3.15	Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
3.16	No sewage or untreated effluent water would be discharged through storm water drains.
3.17	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
3.18	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
3.19	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
4.2	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

5. Energy Conservation Measures

S. No	EC Conditions
5.1	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
5.2	Outdoor and common area lighting shall be LED.
5.3	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
5.4	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

6. Waste Management

S. No	EC Conditions
6.1	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
6.2	Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
6.3	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
6.4	Organic waste compost/Vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
6.5	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6.6	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
6.7	Fly ash 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 25th January, 2016. Ready mixed concrete must be used in building construction.
6.8	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.

S.	No	EC Conditions
6.9		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.

7. Green Cover

S. No	EC Conditions
7.1	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
7.2	A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
7.3	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
7.4	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

8. Transport

S. No	EC Conditions
8.1	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. d. Parking norms as per local regulation.
8.2	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

9.

S. No	EC Conditions
9.1	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative

S. No	EC Conditions
	impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

10. Human Health Issues

S. No	EC Conditions
10.1	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
10.2	For indoor air quality the ventilation provisions as per National Building Code of India.
10.3	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
10.4	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
10.5	Occupational health surveillance of the workers shall be done on a regular basis.
10.6	A First Aid Room shall be provided in the project both during construction and operations of the project.

11. Miscellaneous

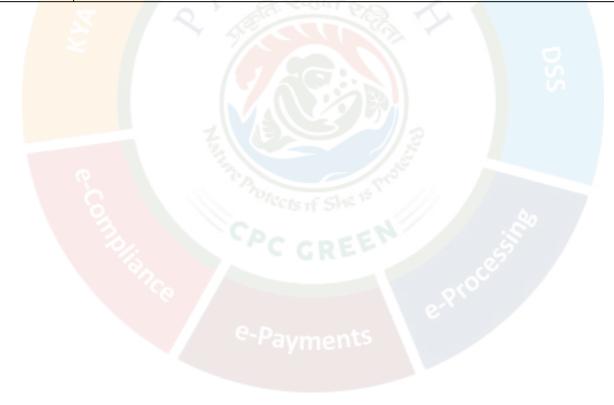
11. Miscellaneou	IS TO CAC GREEN
S. No	EC Conditions
11.1	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
11.2	ii. environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
11.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
11.4	The project proponent shall submit six-monthly reports on the status of the compliance of the

S. No	EC Conditions
	stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
11.5	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
11.6	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
11.7	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report
11.8	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
11.9	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
11.10	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
11.11	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the State Expert Appraisal Committee.
11.12	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC)/SEIAA-TN.
11.13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11.14	The Ministry/SEIAA-TN may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
11.15	The Ministry/SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
11.16	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by

S. No	EC Conditions
	furnishing the requisite data / information/monitoring reports.
11.17	The above conditions shall 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, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
11.18	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

12. Specific Conditions

S. No	EC Conditions
12.1	The project proponent shall develop R& D facilities to develop their own technologies for propylene and polypropylene processing.



CHENNAI

The PM 2.5 level recorded at Alandur on Friday. Nitrogen dioxide level was at 41 µg/m3 against the prescribed standard of 80 µg/m3

NEWS UPDATE FROM TN Twitter @ xpresstn

🚹 'TNIE Tamilnadu' @ xpresstn

newindianexpress com

Bad roads, garbage mounds welcome visitors at industrial estate in Guindy

C SHIVAKUMAR @ Chennai

POTHOLE-ridden roads and damaged stormwater drains with garbage dumped into them greet visitors to the country's first model industrial estate in Guindy. The southern phase of the estate, which directly employs more than 5,000 people and indirectly 10,000, paints a picture of neglect. The employees are blaming the lackadaisical attitude of SIDCO towards their repeated complaints on bad roads leading to mishaps, some minor and some major.

Twenty-seven year-old Shanti, who works as an accountant, recollects the day when she fell off her two-wheeler trying to avoid a pothole a few months ago. "I suffered a ligament injury and was bed-ridden for months. I was advised not to ride a two-wheeler, but I am forced to do so because I have a family to



Bad roads have been affecting users for years, say firms | D SAMPATH KUMAR

woman also met with an accident owing to the unmotorable road and suffered a miscarriage. She was psychologically affected and quit, alleges Shanti.

Aadarsh, a senior official of a company, says he once fell off his two-wheeler into a pit and suffered an elbow fracture.

Employees and firms in the southern phase recently submitted a petition, once again, to SIDCO citing poor condition of a basic requirement — motorasupport," she says. A pregnant ble roads. "Given the impor-

tance of SIDCO, south phase, Guindy is a premier industrial park. This issue has been affecting the estate for years and we have taken up the matter repeatedly. Though SIDCO said roads would be re-laid by January 2024, there has been no progress," the plea says. The employees also sent a copy of the petition to Industries Minister

TRB Rajaa and top officials. A Guindy Industrial Estate Association member alleges that officials are carelessly sit-

ting on such an important issue. The association has taken upon itself SIDCO's task of clearing garbage in the estate. However, borders of the estate are porous and hotels and other outsiders keep dumping garbage into the drain. A petition was recently sent to MSME minister seeking new stormwater drain in vain. he claims.

It may be noted that TNIE carried a report in November last highlighlighting the plight of the estate and officials had assured to take prompt action.

Talking to TNIE, an official in Tamil Nadu Small Industries Development Corporation Limited says maintenance work of the estate has been transferred to Greater Chennai Corporation and the roads in Ambattur and Guindy Industrial Estates would be be re-laid at a cost of ₹12.07 crore by the civic body. Work is currently under way in Ambattur estate, he adds.

50% redevelopment work at Park station complete, project expedited

EXPRESS NEWS SERVICE @ Chennai

REDEVELOPMENT works at Chennai Park station have gained momentum, with 50% completion of the proposed works aimed at facilitating seamless passenger transition between the station and Chennai Central, MRTS, and Central metro station.

According to official sources, the station serves as a vital point connecting Chennai Central in the Chennai Beach - Chengalpattu section. "During rush hours, the entry and exit points of the station witness huge congestion. As part of the redevelopment project, station approaches are being developed not only to provide seamless movement of passengers but also to improve access for persons with disabilities," an official said.

Last year, the station was taken up for redevelopment at a cost of ₹10.68 crore under the



likely to be completed in a few months. Construction of platform shelters and landmark towers are nearing completion P JAWAHAR

The works are

Amrit Bharat Station Scheme. An official note said that over 50% of the redevelopment works has been completed, including the resurfacing of flooring on platforms 1A, 1 and 2. "The works to instal lifts, new canopy and other enhancements are under way," the note added.

The redevelopment plan involves the construction of a new booking office with an executive lounge, a new canopy at the entry with waiting space, resurfac-

ing of flooring on platforms, development of a pedestrian walkway towards MRTS stations and Poonamallee High Road entry and new platform shelters.

Additionally, the proposal includes the provision of lifts (three lifts) for the foot overbridge and handrails, a passenger information display system, an enhanced public announcement system, modern signage, the statement added.

AR constable, 2 friends booked for 'cheating' cop

booked an Armed Reserve police constable and her two friends for allegedly cheating a traffic police constable to the tune of ₹7.95 lakh under the pretext of online business. The victim tried to die by suicide in February and is now out of danger.

According to sources, P Muniswaran (30) was employed as a constable at Flower Bazaar Traffic Police Station. In November last, he got acquainted with Priya (33), an AR constable, and her two friends Ajin and Anand, through a mutual friend. Prom-

EXPRESS NEWS SERVICE @ Chennai ising to invest in their online business and getting a huge re-THE Triplicane police have turn, they made him transfer ₹7.95 lakh.

> However, in December, when Muniswaran did not get any return, he lodged a police complaint. The police tried to inquire, but the trio did not cooperate. In February, Muiswaran tried to die by suicide and was admitted to hospital. After conducting inquiry, police booked a case against the three persons on Thursday. They

are yet to be arrested. (Those with suicidal thoughts contact helpline 104 and Sneha's 044-24640050)

Traffic diversion at Madley Jn from today

EXPRESS NEWS SERVICE @ Chennai

DUE to the construction of a flyover at Madley Junction, the following traffic diversions will be implemented from Saturday to April 26, 2025.

Vehicles coming from North Usman Road towards T Nagar bus stand are prohibited from using the Usman Road flyover near Panagal Park. Instead, vehicles can take the service road of the flyover and reach T Nagar bus stand via Prakasam Road, Bhashyam Road, Thyagaraya Road and Burkit Road.

Only buses will be allowed to ply from Burkit Road Mooparappan Street Junction towards Madley.

Other vehicles can reach T Na- and Mannar Street.



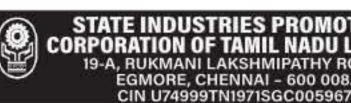
Due to the construction of a flyover at the junction, traffic diversion will be in place till April 26, 2025 | ashwin prasath

gar bus stand via Usman Road, Mooparappan Street, Musa Street, South Dhandapani Street

From T Nagar bus stand, vehicles have to take South Osman Road to reach Saidapet Anna Road and reach Kannammapet junction, and then take South West Boag Road, CIT Nagar Fourth Main Road, CIT Nagar Third Main Road and reach Anna Road.

Vehicles going from CIT Nagar 1st Main Road to North Usman Road should take South West Boag Road at Kannammapet junction and take Venkatanarayana Road to reach North Usman Road via Nageswaran Rao Road.

Vehicles from T Nagar bus stand which have to reach North Usman Road from Madley Roundabout have to take Burkit Road to Venkatanarayana Road and turn left at Nageswara Rao Road.



22.04.2024.

STATE INDUSTRIES PROMOTION CORPORATION OF TAMIL NADU LIMITED 19-A, RUKMANI LAKSHMIPATHY ROAD, EGMORE, CHENNAI - 600 008.

SIPCOT INDUSTRIAL PARK WITH INDUSTRIAL HOUSING FACILITY

ENVIRONMENTAL CLEARANCE

Environmental Clearance has been obtained for the proposed Development of SIPCOT Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee Villages, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu from the State Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide EC Identification No.

The Environmental Clearance (EC) letter can be downloaded from the SIPCOT website www.sipcot.tn.gov.in. The Clearance Letter is also available in the website of Ministry of Environment, Forest and Climate Change (MoEF&CC) / SEIAA.

EC24B3813TN5100474N, File No. 9263 dated

MANAGING DIRECTOR DIPR / 452 / Display / 2024





NARAYANA'S UNSTOPPABLE DOMINANCE

IN JEE MAIN 2024

ALL INDIA OPEN CATEGORY RANKS IN TOP 12











ROHAN SAI PABBA

All India Open Category Ranks in top 100























Many

More...



in Top 12

Open Category

in Top 100



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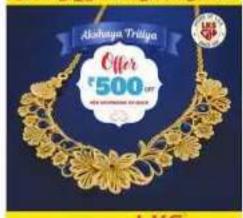
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Online Consent Management & Monitoring System

Ministry of Environment, Forest and Climate Change Government of India





Annexure 3

Home	Consent Management	Laboratory Management	Waste Management	CESS Management	Knowledge Base	Logout
• Indust	ry Profile					
 Apply I 	For Consent	The same of the sa				
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Conser	nt Fee Calculator	Welcome DEVELOPMENT OF INDUST	RIAL PARK WITH INDUTRIAL	HOUSING FACILITY AT VANI	AMALLEE Da	te : 25-6-202

Consent Application Details

Application No : 59704657

Congratulations! Application submitted successfully.

Please submit the signed hard copy of application with required signed enclosures to concerned District office on request of DEE/AEE concerned.

Your Consent Application application has been received under the Application Number 59704657. (Note this number for future communication and know the online status of the application submitted)

Submitted application is under processing. Please send the following documents by post/by hand. You may ignore sending the documents. which have been uploaded online.

- 1) A covering requisition letter stating the status of the industry and activities clearly.
- 2) Copy of attested sale Deed /Lease Deed or any other relevant documents as proof to ensure possession of the site/factory for which application is made by the applicant.
- 3) Copy of attested Memorandum of Articles in case of Public/Private sectors or registered partnership deed in case of partnership
- 4) Layout plan showing the location of various process equipments, utilities like boiler, generator etc. effluent treatment plant, outlet location, non-hazardous and hazardous waste storage yard.
- 5) Topo sketch showing the distance of water bodies, roads, existing/proposed residential areas, agricultural lands, important religious locations, educational institutions, ancient monuments, archeological places and other sensitive areas for 1 KM, radius from the units.
- Detailed manufacturing process for each product along with detailed process flow chart.
- 7) Details of Water Balance and wastewater balance for process.
- 8) Details of Material balance for each products and process-

Annexure 4

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.



Name of the Client

TEST REPORT

Page: I of I

ULR

: TC1231024000047292F

Report No.

4 HECS/AP/179/300924

Sample ID No.

1300924354

Address of the Client

Sampling Date

: 30/09/2024

Group

1 Atmospheric Pollution

÷ 30/09/2024

Sample Name

! Ambient Air

Received Date

Commenced Date 2 30/09/2024

: M/s, SIPCOT

: Vaniamallee

Completed On

: 05/10/2024

Sample Mark

: Near Project Site(Vaniyamalli)

Sample Reference

Report Date

: 05/10/2024 Sample quantity 3 NA

Sample Drawn By Sample Location 7 M/s. Hubert Enviro care Systems (P) Ltd. INA

Environmental Condition

* Temperature (°C): 32.0 | Humidity (%): 56.0

Sampling Method & Plan : IS 182 Part-5 & Part 14

S.No	Test Parameters	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)	fi (Annual)
3	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No. 01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzeue-AAQ	µg/m3	BLQ (LOQ: 0.1	3 15 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m²	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	I (Annual)
5	Aisimonia as NH3	µg/m³	6.28	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6-	Carbon Monoxide (CO)	mg/ m ^t	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours).	2 (8 hours)
7	Nitrogen dinxides as NO2	µg/m²	26.79	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	10.28	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	#g/m²	56.32	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	μg/m³.	20.19	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m²	14.66	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
2	Lexi	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	l (24 hours)	0.5 (Annual)

tification, LOQ- Limit of Quantification, µg/m²- 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"



A-21, III Phase, Thiru Vi Ka Industrial Estate,

Guindy, Chennai - 600 032,

Ph: 42985555 / 43635555 Fax: 42985500

E-mail: labsales@hecs.in

Laboratory Services Division

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

TEST REPORT

Page: 1 of 1

Name of the Client

1 M/s. SIPCOT

Report No.

1 HECS/AP/179/300924/N

Sample ID No : 300924354

Address of the Client

: Vaniamallee

Sampling Date

: 30/09/2024

Group

Atmospheric Pollution

Received Date : 30/09/2024

Sample Name

: Ambient Air

Commenced Date: 30/09/2024

Sample Mark

: Near Project Site(Vaniyamalli)

Completed On 1 05/10/2024 Report Date

Sample Reference

: 05/10/2024

Sample Drawn By Sample Location

2 M/s.Hubert Enviro care Systems (P) Ltd. INA

Sample quantity : NA

Environmental Condition Sampling Method & Plan

: Temperature (°C): 32.0 | Humidity (%): 56.0

: 15 182 Part-5 & Part 14 S.No. Test Parameters Units Results Discipline : Chemical Test Method TVOC

ppmrv. BLQ(LOQ 0.05)

HECS-G/ENV/AAQ/SOP/005 Issue No.:01 Issue Date:02:07 2020

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



D.Amusuya Lab Manager

Authorized Signatory

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.

Name of the Client

TEST REPORT

Page: 1 of 1

ULR

: TC1231024000047291F

Report No.

1 HECS/AP/180/300924

Sample ID No

:300924355

Sampling Date

± 30/09/2024

Address of the Client

: M/s. SIPCOT : Vaniamallee

Group

Atmospheric Pollution

Received Date # 30/09/2024

Sample Name

Ambient Air

Commenced Date : 30/09/2024

Sample Mark

: Iguvarpalaiyam

Completed On

: 05/10/2024

: 05/10/2024

Sample Reference

ENA

Report Date

Sample quantity 1 NA

Sample Drawn By

: M/s. Hubert Enviro care Systems (P) Ltd. : NA

Sample Location Environmental Condition

: Temperature ("C): 32.0

| Humidity (%): 56.0

Sampling Method & Plan

: IS 182 Part-5 & Part 14

S.N	Test Parameters	Units	Results	Test Method	NAAQ Stan	dards : 2009
Disc	ipline + Chemical					
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 base No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03:2021	20 (Annual)	20 (Annual)
3:	Benzene-AAQ	μg/m3	BLQ (LOQ: 0.1) IS 5182 Part (1: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m²	BLQ (LOQ: 0.1)	1S : 5182 Part 12: 2004	1 (Annual)	1.(Anoual)
5	Anomonia as NH3	pg/m [†]	5.28	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual
6	Carbon Monoxide (CO)	mg/ m³	BLQ(L0Q 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7:	Nitrogen dioxides as NO2	µg/m³	23.82	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	13.25	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours
9	Particulate matter (Size less than 10 µm)	μg/m³	49.79	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	20.16	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Aneual)
11	Sulphur dioxide as SO2	µg/m³	11.28	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	јад/т3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date;01:03.2021	1 (24 hours)	0.5 (Annual)

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

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

"End of Report"

Chonnai

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 The test results relate only to the test items.

HECS-G/O/FMT/49 HECS-G/Q/FMT/49

A-21, III Phase, Thiru Vi Ka Industrial Estate,

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Ph: 42985555 / 43635555 Fax: 42985500

E-mail: labsales@hecs.in

Name of the Client

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TEST REPORT

Page: Lof I

No.:01 Issue Date:02:07 2020

Report No. # HECS/AP/180/300924/N

Sample ID No : 300924355 Sampling Date : 30/09/2024

Address of the Client : Vaniamallee

1 M/s. SIPCOT

Taniananee

Group * Atmospheric Pollution Received Date * 30/09/2024
Sample Name * Ambient Air Commenced Date * 30/09/2024
Sample Mark * Iguvarpalaiyam Completed On * 105/10/2024

Sample Reference 2 NA Report Date 205/10/2024
Sample Drawn By 2 M/s. Hubert Enviro care Systems (P) Ltd. Sample quantity 2 NA

Sample Drawn By 2 M/s. Hubert Enviro care Systems (P) Ltd. Sample q
Sample Location 2 NA

S.No. Test Parameters Units Results Test Method

Discipline: Chemical

1 TVOC ppmv BLQ(LOQ 0.05) HECS-G/ENV/AAQ/SOP/005 Issue

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 REPORT

Page: 1 of 1

ULR

: TC1231024000047319F

Report No.

3 HECS/AP/181/300924

Sample ID No

: 300924356

Sampling Date

Address of the Client

Name of the Client

2 M/s. SIPCOT

: 30/09/2024

Group

: Vaniamallee

3 Atmospheric Pollution

Received Date : 30/09/2024

Commenced Date: 30/09/2024

Sample Name

2 Ambient Air : Gummidipundi

Sample Mark

Completed On #05/10/2024

Sample Reference

Report Date

: 05/10/2024

Sample Drawn By

7 M/s. Hubert Enviro care Systems (P) Ltd.

Sample quantity 2 NA

Sample Location

: NA

Fremperature (°C): 32.0

1 Humidity (%): 56.0

Environmental Condition Sampling Method & Plan

: IS 182 Part-5 & Part 14

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Stane	lards : 2009
Discip	dine t Chemical					
t.	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: 20)	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) 15 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m²	BLQ (LOQ: 0.1)	1S : 5182 Part 12: 2004	I (Annual)	1 (Annual)
5	Ammonia as NH3	μg/m³	6.12	1S 5182 (Part 25) 2018	400 (24 hours)	(Annual)
6	Carbon Monoxide (CO)	mg/ m²	BLQ(LOQ 0.05)	1S 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	μg/m³	25.19	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	p.g/m ^a	10.65	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	46.29	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	gg/m³	20.18	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annusl)
11	Sulphur dioxide as SO2	μg/m ³	11.54	1S 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m1- Micrograms per cubic meter, mg/m5-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"

Chennai

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TEST REPORT

Page: 1 of 1

Report No. 2 HI

2 HECS/AP/181/300924/N

Sample ID No

1300924356

Sampling Date

: 30/09/2024

Address of the Client

Name of the Client

: Vaniamaliee

* M/s. SIPCOT

Received Date : 30/09/2024

Sample Name

3 Atmospheric Pollution 4 Ambient Air

Commenced Date # 30/09/2024

Sample Mark

Group

; Gummidipundi

Completed On # 05/10/2024

Sample Reference

1 NA

Report Date 105/10/2024

Sample Drawn By

2 M/s.Hubert Enviro care Systems (P) Ltd.

Sample quantity : NA

05/10/2024

Sample Location Environmental Condition

Discipline : Chemical

I NA

Test Parameters

AT DOCUMENT OF THE PARTY.

1 Temperature (°C): 32.0 | Humidity (%): 56.0

Units

Sampling Method & Plan

S.No.

: IS 182 Part-5 & Part 14

Results	Test Method

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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TEST REPORT

Page: 1 of 1

ULR

: TC1231024000047318F

Report No.

* HECS/AP/183/300924

Sample ID No

: 300924358

Sampling Date

: 30/09/2024

: 05/10/2024

Address of the Client

Name of the Client

: Vaniamallee

1 M/s, SIPCOT

Group

Atmospheric Pollution

: Ambient Air

Sample Name Sample Mark

: Teruvai

Sample Reference

: NA

1 M/s. Hubert Enviro care Systems (P) Ltd.

Report Date

Completed On

: 05/10/2024 Sample quantity : NA

Received Date 1 30/09/2024

Commenced Date : 30/09/2024

Sample Drawn By Sample Location

INA

Environmental Condition

: Temperature (°C): 32.0 | Humidity (%): 56.0

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Stand	dards: 2009
Discip	line : Chemical					
	Arsenie	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01:03.2021	20 (Annual)	20 (Annual)
i I	Benzene-AAQ	pg/m3	BLQ (LOQ: 0.1) IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS: 5182 Part 12: 2004	I (Annual)	t (Annual)
	Ammonia as NH3	µg/m³	7.41	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Aemual
	Curbon Monoxide (CO)	eng/ m²	BLQ(LOQ 0.05)	ES 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
	Nitrogen dioxides as NO2	µg/m³	20.75	1S 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
	Ozone as O3	μg/m²	12.54	1S 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours
	Particulate matter (Size less than 10 µm)	µg/m³	43.80	1S 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
o	Particulate matter (Size less than 2.5 µm)	μg/m³	27.25	1S 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
1	Sulphur dioxide as SO2	μg/m³	14.93	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
2	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No. 01 Issue Date 01.03.2021	1 (24 hours)	0.5 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m2- 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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Name of the Client

TEST REPORT

Page: 1 of 1

ULR

: TC1231024000047335F

Report No.

HECS/AP/182/300924

Sample ID No

: 300924357

Sampling Date

Address of the Client

M/s. SIPCOT : Vaniamallee

: 30/09/2024

Group

: Atmospheric Pollution

Received Date

: 30/09/2024

Sample Name

: Ambient Air

Commenced Date: 38/09/2024

Sample Mark

: Guruvarajakandigai

Completed On

: 05/10/2024

Sample Reference

: NA

Report Date

: 05/10/2024 Sample quantity INA

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

: NA

: Temperature (°C): 32.0 | Humidity (%): 56.0

Environmental Condition Sampling Method & Plan

: 1S 182 Part-5 & Part 14

S.No	Test Parameters	Units	Results	Test Method	NAAQ Stan	dards : 2009
Disci	pline : Chemical	7.100				
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	μg/m3	BLQ (LOQ: 0.1) IS 5182 Part 11; 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m²	BLQ (LOQ: 0.1)	1S : 5182 Part 12: 2004	I (Amoual)	I (Annual)
5	Ammonia as NH3	µg/m²	8,30	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	pg/m³	20.11	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	11.97	1S 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours
9.	Particulate matter (Size less than 10 µm)	µg/m²	50,15	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	hsfb/m ₃	22.78	1S 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	14.91	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
2	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m²- 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"

CARES Chennai 600 032

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TEST REPORT

Page: 1 of 1

Report No.

- HECS/AP/182/300924/N

Sample ID No

: 300924357

Sampling Date

Received Date

Completed On

Sample quantity : NA

Report Date

: 30/09/2024

30/09/2024

: 05/10/2024

05/10/2024

Commenced Date: 30/09/2024

Address of the Client

Name of the Client

: Vaniamallee

: M/s. SIPCOT

Group

: Atmospheric Pollution

Sample Name

: Ambient Air

Sample Mark

: Guruvarajakandigai

Sample Reference Sample Drawn By

: NA

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

Sample Location Environmental Condition Sampling Method & Plan-

: Temperature (°C): 32.0

| Humidity (%): 56.0

: IS 182 Part-5 & Part 14

S.No.	Test Parameters	Units	Results	Test Method
Discipline	: Chemical			A
I TV	OC.	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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Name of the Client

Address of the Client

TEST REPORT

Page: 1 of 4

ULR

: TC1231024000047811F

Report No.

HECSL/WT/099/300924

Sample ID No

: 300924360

Sampling Date

: Vaniamallee

: 30/09/2024

Group

Water

Received Date : 30/09/2024

Sample Name

Ground Water

M/s. SIPCOT

Commenced Date: 30/09/2024

Sample Mark

: Near Project Area

: 09/10/2024

Completed On

Sample Reference

Report Date : 09/10/2024

Sample Drawn By

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

Sample quantity : 1 Litres

Sample Location

: NA

: Temperature (°C): 28.0 | Humidity (%): 51.0

Environmental Condition Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parametera	Units	Results	Test Method	35 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Disci	pline : Chemical					
1	Ammenia as NH3	Ngm	BLQ(LOQ:0.07)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	Pages	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	
3	Bi carbonate	Pgm	220.0	1S 3025 Part 51; 2001	NA NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2-0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	Ngm	BLQ(LOQ:0.1)	IS 3025 Part 57 - Cureamin Method: 2021	0.5	2.4
6	Calcium as Ca	figm	52.10	JS 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)	1S 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	220.46	15 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	1S 3025 (Part4): 2021	5.	15
11	Cyanide as CN	mg/I	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.7	1S 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA



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Name of the Client

TEST REPORT

Page: 2 of 4

ULR

TC1231024000047811F

Report No.

: HECSL/WT/099/300924

Sample ID No

: 300924360

Sampling Date

Received Date

Completed On

Report Date

Commenced Date: 30/09/2024

Sample quantity 1 Litres.

: 30/09/2024

: 30/09/2024

: 09/10/2024

: 09/10/2024

Address of the Client

: Vaniamallee

M/s. SIPCOT

Group

Water

Ground Water

Sample Name Sample Mark

: Near Project Area

Sample Reference

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

Sample Drawn By Sample Location

INA

Environmental Condition

Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: IS 17614(Part-1):2021

S.Nn.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	μS/cm	1226.0	15:3025 Part-14; 2013	NA	NA
14	Fluoride as F	mg/l	0.47	APHA 23rd edition (Method 4500F- B., D): 2017	1.0	1.5
15	Iron as Fe	пуЛ	BLQ(LOQ:0.01)	ES 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	29.16	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	11.74	APHA 23rd edition (Method 4500 NO3B); 2017	45	No relaxation
18	Percent Sodium	56	47.47	HECS /WT/SOP/002:: 2019	NA	NA
19	pH at 25°C	8	7,91	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	9.0	3S 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
2.2	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adverption Ratio(SAR)	Square root of (millimole/lit	3.01	18 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	110.0	1S 3025 Part 45: 1993 (Flome emission Photometric Method)	NA	NA



D.Anusuva Lab Manager

Authorized Signatory

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TEST REPORT

Page: 3 of 4

ULR

: TC1231024000047811F

Report No.

HECSL/WT/099/300924

Sample ID No

: 300924360

: 09/10/2024

: 09/10/2024

Sampling Date

Completed On

Report Date

Received Date : 30/09/2024

Commenced Date: 30/09/2024

Sample quantity : 1 Litres

30/09/2024

Address of the Client

Name of the Client

: Vaniamallee

M/s. SIPCOT

Group

Water

Sample Name

Ground Water : Near Project Area

Sample Mark

Sample Reference

: NA

M/s. Hubert Enviro care Systems (P) Ltd.

Sample Drawn By Sample Location

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 51.0

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

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Mux)	Permissible Limits (Max)
25	Sulphate as SO4	mg/l	67.37	IS 3025 Part 24 Sec 1: 2022(Turhidity Method)	200	400
26	Total alkalinity as CaCO3	mg/t	220.0	IS 3025 (Part 23): 1986	200	600
27	Total disselved solids	ftgm	687.0	15 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	15 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO4	mg/t	0.096	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	.NA	NA
30	Phosphorous as P	mg/l	0.027	IS 3025 Part 31 Sec 4: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO3	mg/I	250.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	0.8	IS 3025 (Part 10); 1984	1	5
33	Arsenic	mg/I	BLQ (LOQ- 0.005)	USEPA 200.8: 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	0,7	No relatation
35	Cadmism	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	Ngm	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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Name of the Client

TEST REPORT

Page: 4 of 4

ULR : TC1231024000047811F

Report No. HECSL/WT/099/300924

Sample ID No : 300924360

Sampling Date

: 30/09/2024

Address of the Client : Vaniamallee

Water Ciroup

: Ground Water Sample Name Sample Mark : Near Project Area : NA

Sample Reference

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

M/s. SIPCOT

Environmental Condition : Temperature (°C): 28.0 | Humidity (%): 51.0 Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 30/09/2024 Commenced Date: 30/09/2024

Completed On : 09/10/2024 Report Date : 09/10/2024

Sample quantity 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500	: 2012
					Acceptable Limits (Max)	Permissible Limits (Maxi
38	Lead	mg/I	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	hg/l	BLQ (LOQ: 0.0005)	USEPA 200.8: 1994	0.001	No relaxation
41	Nickel	mgd	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/099/300924/N

Sample ID No

:300924360

Sampling Date

Completed On

Report Date

R

BLQ(LOQ:0.01)

Received Date : 30/09/2024

Commenced Date: 30/09/2024

Sample quantity 1 Litres.

: 30/09/2024

Address of the Client

Name of the Client

: Vaniamallee

M/s. SIPCOT

Group

S.No.

: Water

Sample Name

: Ground Water

Sample Mark

: Near Project Area

Sample Reference Sample Drawn By

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

Test Parameters

Hexavalent Chromium as Cr6+

Sample Location Environmental Condition

: Temperature (°C) : 28.0 | Humidity (%) : 51

Units

mg/l

Sampling Method & Plan

Discipline: Chemical

: IS 17614(Part-1):2021

.0		
esults	Test Method	

IS 3025 Part 52: 2003 (Diphenyl Carbazide method)

09/10/2024

: 09/10/2024

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/l- Milligrams per litre. ""End of Report""



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Name of the Client



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TEST REPORT

Page: 1 of 4

ULR : TC1231024000047821F Report No. HECSL/WT/100/300924

Sample ID No : 300924361 : 30/09/2024

M/s. SIPCOT Sumpling Date

Address of the Client : Vaniamallee

Water Group Received Date : 30/09/2024 Sample Name Ground Water Commenced Date: 30/09/2024 Sample Mark : 09/10/2024 : Iguvarpalaiyam Completed On Sample Reference Report Date : 09/10/2024 Sample quantity 1 Litres

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

Environmental Confition Temperature (°C): 28.0 | Humidity (%): 51.0

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

S.No.	Test Parameters	Units	Results	Test Method	1S 10500	: 2012
				10 PC P 04 04 04 04 04 04 04 04 04 04 04 04 04	Acceptable Limits (Max)	Permissible Limits (Max)
Disci	pline : Chemical	2 9				
t	Atomonia as NH3	mg/l	BLQ(LOQ:0.02)	3\$ 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
3	Bi carbonate	Hig/I	210,0	15 3025 Part 51: 2001	NA	NA
4	Biological Oxyges Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	48.09	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	Ngm	195.96	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	1S 3025 (Pari4): 2021	5	15
11	Cyunide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1; 2021	0.05	No relaxation
12	Dissolved oxygen	mg/t	6.6	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA



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Name of the Client

TEST REPORT

Page: 2 of 4

ULR : TC1231024000047821F Report No. HECSI/WT/100/300924

F 09/10/2024

: 09/10/2024

Sample ID No : 300924361

Sampling Date : 30/09/2024

Received Date : 30/09/2024

Commenced Date: 30/09/2024

Sample quantity 1 Litres

Completed On

Report Date

Address of the Client : Vaniamatlee

Cruup - Water Sample Name : Ground Water Sample Mark : Iguvarpalaiyam

Sample Reference

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

Sample Location

Environmental Condition : Temperature ("C): 28.0 | Humidity (%): 51.0

: M/s. SIPCOT

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

S.Nu.	Test Parameters	Units:	Results	Test Method	IS 10500	: 2012
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	μS/cm	1055.0	1S 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/I	0.43	APHA 23rd edition (Method 4500F- B , D): 2017	1.0	1.5
15	Iron as Fe	nag/f	0.061	IS 3025 (Part 53): 2003	1.0	No reluxation
16	Magnesium as Mg	rug/I	24.3	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100
17	Nitrate as NO3	Pgor	6.78	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	48.65	HECS /WT/SOP/002:: 2019	NA	NA
19	pH at 25°C		7.88	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	Pgm	8.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	теф1	BLQ(LOQ 1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	2.95	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	102.0	1S 3025 Part 45; 1993 (Fleme emission Photometric Method)	NA	NA



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TEST REPORT

ULR

Page: 3 of 4

: TC1231024000047821F

Report No.

HECSL/WT/100/300924

Sample ID No.

: 300924361

Sampling Date

: 30/09/2024

Name of the Client

Address of the Client

: Water

Group Sample Name

: Ground Water

M/s. SIPCOT

: Vaniamallee

Sample Mark

: Iguvarpalaiyam : NA

Sample Reference Sample Drawn By

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

Sample Location

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: IS 17614(Part-1):2021

Received Date	: 30/09/2024
Commenced Da	e: 30/09/2024
Completed On	: 09/10/2024
Report Date	: 09/10/2024
Sample quantit	y 1 Litres

5.Nu.	Test Parameters	Units	Results	Test Method	IS 1050	0:2012
				3-2-22-22-2	Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as \$04	mg/l	57.61	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)	200	400
26	Total alkalinity as CaCO3	mg/t	210.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solida	mg/l	591.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/I	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO4	nig/I	0.12	US 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA.	NA
ю	Phesphorous as P	mg/l	0.036	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA:	NA
31	Total hardness as CaCO3	mg/l	220.0	IS 3025 (Part 21): 2009	200	600
12	Turbidity, NTU	NTU	0.7	IS 3025 (Part 10): 1984	1	5
3	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8: 1994	0.01	No relaxation
14	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	0.7	No relaxation
5	Cadmium	mg/l	8LQ (LOQ: 0.001)	USEPA 200.8: 1994	0.003	No relaxation
6	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
13	Copper	rug/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	0.05	1.5



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Name of the Client

Address of the Client

TEST REPORT

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ULR

: TC1231024000047821F

Report No.

HECSL/WT/100/300924

Sample ID No

: 300924361

Sampling Date

: 30/09/2024

Group

- Water

Received Date:

: 30/09/2024

Sample Name

Ground Water

1 M/s. SIPCOT

: VaniamaBee

Sample Mark

: Iguvarpalaiyam

Commenced Date: 30/09/2024 Completed On : 09/10/2024

Sample Reference

Report Date

: 09/10/2024

Sample Drawn By

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

Sample quantity : 1 Litres

Sample Location **Environmental Condition**

: Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: IS 17614(Part-1):2021

S.Na.	Test Parameters	Units	Results	Test Method	RS 1050	0:2012
38	Lend				Acceptable Limits	Permissible
	///	mg/I	BLQ (LOQ: 0.005)	L/SEPA 200.8: 1994	(Max) 0.01	No relaxation
39	Manganese	теД	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	1.0	0.3
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001	No relaxation
11	Nickel	Ng/I	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.02	No relaxation
12	Selenium	mg/S	BLQ (LOQ: 0.005)	USEPA 200.8: 1994	0.01	No relaxation
3	Zine	ing/l	BLQ (t.QQ: 0.01)	USEPA 200.8 : 1994	5	15

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

End of Report



D.Anusuya Lab Manager

Authorized Signatory

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TEST REPORT

Page: Lof I

Report No.

HECSL/WT/100/300924/N

Sample ID No.

Received Thile

Completed On

Report Date

: 300924361

Address of the Client

Sampling Date

30/09/2024

30/09/2024

: 09/10/2024

: 09/10/2024

Commenced Date: 30/09/2024

Sample quantity : 1 Litres

Group

Water

Sample Name

Ground Water

Sample Mark

: Iguvarpalaiyam

: M/s. SIPCOT

: Vaniamallee

Sample Reference

: NA

Sample Drawn By

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

Sample Location

Name of the Client

: Temperature (°C) : 28.0 | Humidity (%) : 51.0

Environmental Condition Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method
Discipline :	The second secon			
Hexay	alent Chromium as Cr6+	Pgm	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003 (Dipheny Carbazide method)

Limit of Quantification, LOQ- Limit of Quantification, mg/l- Milligrams per litre.



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TEST REPORT

Page: 1 of 4

ULR

: TC1231024000047812F

Report No.

HECSL/WT/101/300924

Sample ID No

: 300924362

Sampling Date

Received Date

Completed On

Report Date

Commenced Date: 30/09/2024

Sample quantity : 1 Litres

: 30/09/2024

30/09/2024

: 09/10/2024

: 09/10/2024

Address of the Client

Name of the Client

: Vaniamallee

- M/s. SIPCOT

Group

Water

Sample Name

Ground Water

Sample Mark

: Gummidipundi

Sample Reference

Sample Drawn By

M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location

: NA

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: IS 17614(Part-1):2021

S.Nn.	Test Parameters	Units	Results	Test Method	LS 10500	: 2012
					Acceptable Limits (Max)	Permissible Limits (Max)
Disci	pline : Chemical					
i	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/f	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	to:
3	Bi carbonate	mg/l	240.0	IS 3025 Part 51: 2001	NA:	NA:
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/I	44.09	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
1	Carbonate	mg/t	BLQ(LOQ:1.0)	1S 3025 Part 51: 2001	NA.	NA:
3	Chemical Oxygen Demand (COD)	mg/I	BLQ(LOQ:4,0)	IS 3025 Part 58: 2006	NA	NA
1	Chloride as Cl	Pgm	210.67	1S 3025 Part 32: 1988 (Argentometric Method)	250	1000
0	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4); 2021	5	15
11	Cyanide as CN	Ngm	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.5	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA.	NA



D.Anusuya Lab Manager

Authorized Signatory

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Name of the Client

Address of the Client

TEST REPORT

Page: 2 of 4

ULR

: TC1231024000047812F

Report No.

HECSL/WT/101/300924

Sample ID No.

: 300924362

Sampling Date

Completed On

Report Date

Received Date : 30/09/2024

Commenced Date: 30/09/2024

Sample quantity : 1 Litres

: 30/09/2024

09/10/2024

: 09/10/2024

: Vaniamallee

M/s. SIPCOT

Group

Water

Sample Name

Ground Water

Sample Mark

: Gummidipundi

Sample Reference

Sample Drawn By Sample Location

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

INA

- Temperature (°C): 28.0 | Humidity (%): 51.0

Environmental Condition Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	IS 10500	1:2012
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	μS/cm	1133.0	15 3025 Part-14; 2013	NA	NA
14	Fluoride us F	mg/t	0.44	APHA 23rd edition (Method 4500F- II , D): 2017	1.0	1.5
15	Iron as Fe	Pagmi	0.067	1S 3025 (Part 53); 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	29.16	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100
17	Nitrate as NO3	ng/L	5.74	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	48.19	HECS /WT/SOP/002:; 2019	NA	NA
19	pH at 25°C	-	7.94	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)	1S 3025 Part 43 Sec 1; 2022	0.001	0.002
21	Potassium as K	mg/l	7.0	IS 3025 Part 45; 1993 (Pleme emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	тецЛ	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
2.3	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	2.94	IS 11624 : 2019	NA	NA
24	Sodium as Na	rog/l	103.0	1S 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA



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Name of the Client

Address of the Client

TEST REPORT

Page: 3 of 4

ULR Report No.

: TC1231024000047812F

Sample ID No

HECSL/WT/101/300924

Sampling Date

Completed On

Report Date

Received Date 30/09/2024

Commenced Date: 30/09/2024

Sample quantity : 1 Litres

: 300924362 : 30/99/2024

: 09/10/2024

: 09/10/2024

: Vaniamallee

M/s. SIPCOT

George

: Water

Sample Name

: Ground Water : Gummidipundi

Sample Mark

Sample Reference

Simple Drawn By

3 M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	ES 1050	0:2012
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO4	mg/l	67.46	1S 3025 Part 24 Sec 1: 2022(Turbidity Method)	200	400
26	Total alkalimity as CaCO3	mg/l	240.0	1S 3025 (Part 23): 1986	200	600
27	Total dissolved solids	ing/l	637.0	1S 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	Pigm	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	BLQ(LOQ:0.02)	3S 3025 Part 31 Sec 1; 2022 (Stannous Chloride method)	NA	NA:
31	Total hardness as CaCO3	mg/l	230.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	L.	5
33	Amenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8:1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	0.05	No relaxation
37	Copper	ngđ	BLQ (LOQ: 0.01)	USEPA 206.8:1994	0.05	1.5



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TEST REPORT

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ULR

: TC1231024000047812F

Report No.

: HECSL/WT/101/300924

Sample ID No

Received Date : 30/09/2024

Commenced Date: 30/09/2024

Sample quantity: 1 Litres

: 300924362

Sampling Date

Completed On

Report Date

: 30/09/2024

: 09/10/2024

: 09/10/2024

Address of the Client

: M/s. SIPCOT : Vaniamallee

Group

Water

Sample Name

Name of the Client

: Ground Water : Gummidipundi

Sample Mark

Sample Reference

Sample Drawn By

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

Sample Location

: NA

: Temperature (°C): 28.0 | Humidity (%): 51.0

Environmental Condition Sampling Method & Plan

: IS 17614(Part-1):2021

5.No.	Test Parameters.	Units	Results	Test Method	IS 10500	1: 2012
					Acceptable Limits (Max)	Permiodide Limits (Max)
38	Lead	Paper	BLQ (LOQ: 0.005)	USEPA 200.8: 1994	10.0	No relaxation
39	Manganese	mg/I	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	0.1	0.3
40.	Mercury	Ngm	BLQ (LOQ: 0.0005)	USEPA 200.8: 1994	0.001	No relaxation
41	Nickel	тел	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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Name of the Client

Group

Sample Name



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TEST REPORT

Page: 1 of 1

Report No. M/s. SIPCOT

HECSL/WT/101/300924/N

Sample ID No. : 300924362

Address of the Client Sampling Date: : 30/09/2024 : Vaniamallee

> : Water Received Date : 30/09/2024 Ground Water Commenced Date: 30/09/2024 : Gummidipundi

Sample Mark Completed On : 09/10/2024 Sample Reference : NA Report Date 09/10/2024 Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd. Sample quantity -1 Litres

Sample Location Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 51.0 Sampling Method & Plan : IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	CONTRACTOR OF THE PARTY OF THE
Discip	dine : Chemical		Kestits	Test Method
1	Hexavalent Chromium as Cr6+	- W		
- 12	Zasania in a di primita del Saletti.	mg/I	BLQ(LOQ:0.01)	1S 3025 Part 52: 2003 (Diphenyl
Note	- BLQ - Below the Limit of Quantification			The state of the s

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



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Name of the Client

Address of the Client

TEST REPORT

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ULR

: TC1231024000047813F

Report No.

* HECSL/WT/102/300924

Sample ID No.

: 300924363

Sampling Date

Completed On

Report Date

Received Date # 30/09/2024

Commenced Date : 30/09/2024

Sample quantity # 1 Litres

: 30/09/2024

: 09/10/2024

: 09/10/2024

: Vaniamallee

‡ M/s. SIPCOT

Group

: Water

: Surface Water

Sample Name Sample Mark

: Pond near Vaniyamalli

Sample Reference

1 NA

Sample Drawn By

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

Sample Location

* Temperature ("C) : 28.0 | Humidity (%) : 51.0

Environmental Condition Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296, Class-A)
Discip	line : Chemical				
1	Ammonia as NH3	mg/t	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/1	180.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD)@ 27°C For 3 days	Pagmi	3.0	IS 3025 Part 44: 1993	2
4	Boron ax B	mgđ	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 (Curcumis Method)	NA
5	Calcium as Ca	mg/l	36.07	1S 3025 Part 40; 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	24.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	176,37	IS 3025 Part 32: 1988 (Argentossetric Method)	250
8	Colour	Hazen units	HLQ(LOQ:1.0)	1S 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/I	6,1	IS 3025 Part 38: 1989	- 6
10	Electrical Conductivity at 25°C	yS/cm	914.0	IS:3025 Part 14: 2013	NA
1.1	Fborride as F	Pagei	0.44	APHA 23rd edition Method 4500 F -B,D: 2017	1,5
12	fron as Fe	Pgm	BLQ(LOQ:0.01)	3S 3025 Part 53; 2003	0.3
13	Nitrate as NO3	mg/t	12.64	APHA 23rd edition Method 4500 NO3B: 2017	20



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Name of the Client

TEST REPORT

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ULR

: TC1231024000047813F

Report No.

: HECSL/WT/102/300924

Sample ID No

: 300924363

Sampling Date

: 30/09/2024

3 M/s, SIPCOT : Vaniamallee

Group

Address of the Client

: Water

Received Date # 30/09/2024

Sample Name

Surface Water

Commenced Date 3 30/09/2024

Sample Mark

: Pond near Vaniyamalli

Completed On

: 09/10/2024

Sample Reference

: NA

109/10/2024

Sample Drawn By

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

Report Date

Sample Location

Sample quantity : 1 Litres

Environmental Condition

* Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH m 25°C		7.88	IS 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	512.0	1S 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B _o C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	1S 3025 Part 51: 2001	NA
18	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	1S 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	17.01	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	24.28
20	Percent Sodium	%	52.27	HECSG /WT/SOP/002 Issue No:01, Issue date 18.12: 2021	NA
21	Phenolic compounds as C6H5OH	mg/I	BLQ(LOQ:0.001)	15 3025 Part 43:Sec 1: 2022	0.002
22	Phosphate as PO4	mg/l	0.14	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	6.0	IS 3025 Part 45: 1993	.NA
24	Residual Sodium Carbonate	mg/t	BLQ(LOQ:L0)	1S 11624: 2019	NA
25	Sedium Adsorption Ratio(SAR)	Square root of (millimole/lit	2.91	IS 11624: 2019	NA



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TEST REPORT

ULR

Page: 3 of 4

Report No.

: TC1231024000047813F

Sample ID No

: HECSL/WT/102/300924

Samble ID 140

: 300924363

ent:

nfamalles

Sampling Date

: 30/09/2024

Address of the Client

Name of the Client

t Vaniamallee

1 M/s. SIPCOT

Group

I Water

Sample Name

: Surface Water

Sample Mark

: Pond near Vaniyamalli

Sample Mark Sample Reference

- NA

Comp

Commenced Date 30/09/2024

Completed On

109/10/2024

Report Date

: 09/10/2024

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

Sample quantity 1 Litres

Received Date # 30/09/2024

Sample Drawn By Sample Location

: NA

Environmental Condition

* Temperature (°C) : 28.0 | Humidity (%) : 51.0

Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
26	Sodium as Na	mg/l	85.0	IS 3025 Part 45: 1983	NA.
27	Sulphate as SO4	rng/l	47.36	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO3	rog/l	180.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO3	mg/l	160:0	15:3025 Part 21: 2009	300
30	Total Phosphorous as P	mgA	0.043	IS 3025 Part 31 Sec 1: 2022	NA.
31	Total Suspended Solids	mg/l	4.0	IS 3025 Part 17: 1984	NA NA
32	Turbidity	NTU	1.9	IS 3025 Part 10: 1984	1
33	Amenic	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	rog/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	1.5
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	mg/l	BLQ (LOQ: 0.000S)	USEPA 200.8 1994	0.001



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Name of the Client

TEST REPORT

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ULR

: TC1231024000047813F

Report No.

4 HECSL/WT/102/300924

Sample ID No

: 300924363

Sampling Date

1 30/09/2024

Address of the Client

M/s. SIPCOT

: Vaniamallee

Group

S.No.

41

42

43

: Water

Received Date = 30/09/2024

Sample Name

: Surface Water

Commenced Date: 30/09/2024

Sample Mark

: Pond near Vaniyamalli

Completed On 109/10/2024

Sample Reference:

Sample Drawn By

Report Date :09/10/2024

LISEPA 200.8: 1994

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

Sample quantity \$1 Litres

Sample Location **Environmental Condition**

Test Par

* Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

Nickel

Zinc

Selenium

* IS 1761A/Post 15-2021

+ 13 1/014(F)	111-17-2021			
rameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
	mg/t	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	NA
	mg/l:	BLQ (LOQ: 0.005)	USEPA 200.8: 1994	0.01

BLQ (LOQ: 0.01)

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

mg/l



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Name of the Client

Sample Location

Group

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TEST REPORT

Page: 1 of 1

Report No. 2 HECSL/WT/102/300924/N

Sample II) No : 300924363

Sampling Date : 30/09/2024

Address of the Client : Vaniamallee

Water Received Date : 30/09/2024

Sample Name

Surface Water

Commenced Date 1 30/09/2024

Sample Mark

Pond near Vaniyamalli

Completed On 1 09/10/2024

Sample Reference : NA Report Date : 09/10/2024
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd. Sample quantity : 1 Litres

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

: NA

: M/s, SIPCOT

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

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

End of Report



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TEST REPORT

Page: 1 of 4

ULR

: TC1231024000047820F

Report No.

* HECSL/WT/103/300924

Sample ID No

: 300924364

Sampling Date

Completed On

Report Date

Received Date : 30/09/2024

Commenced Date: 30/09/2024

Sample quantity 11 Litres

: 30/09/2024

: 09/10/2024

: 09/10/2024

Address of the Client

Name of the Client

: Vaniamallee

: M/s. SIPCOT

Group

: Water

Sample Name

: Surface Water : Lake Near Sitturnattam

Sample Mark

Sample Reference

I NA

3 M/s. Hubert Enviro care Systems (P) Ltd.

Sample Drawn By Sample Location

Environmental Condition

1 Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 (Jass-A)
Discip	line : Chemical				2000-00010000-00
1	Ammonia as NH3	ng/i	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA.
2	Bi carbonate	mg/l	170.0	IS 3025 Part 51: 2001	NWA
3	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/I	4.0	IS 3025 Part 44: 1993	2.2
4	Horon as B	mg/l	BLQCOQ-0.1)	1S 3025 Part 57: 2021 (Curcumin Method)	NMA
5	Calcium as Ca	mg/l	48.09	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	888010
6	Chemical Oxygen Demand (COD)	Ngm	40.0	IS 3025 Part 58: 2006	NAA
j	Chiloride as CI	rtgm /	181.27	IS 3025 Part 32: 1988 (Argentometric Method)	2580
8	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	100
)	Dissolved oxygen	mg/l	5.9	IS 3025 Part 38: 1989	6-6
10	Electrical Conductivity at 25°C	μS/cm	937.0	IS:3025 Part 14: 2013	NKA
11	Fluoride as F	mg/I	0.41	APHA 23rd edition Method 4500 F -B.D: 2017	1.5.5
12	Iron as Fe	mg/L	BLQ(LOQ:0.01)	1S 3025 Part 53: 2003	0.0.3
13	Nitrate as NO3	Pagen	5.61	APHA 23rd edition Method 4500 NO3B: 2017	2020



D.Anusuya

Lab Manager

Authorized Signatory

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TEST REPORT

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ULR

: TC1231024000047820F

Report No.

: HECSL/WT/103/300924

Sample ID No

: 300924364

Sampling Date

Received Date

Completed On

Report Date

: 30/09/2024

÷ 30/09/2024

109/10/2024

: 09/10/2024

Commenced Date : 30/09/2024

Sample quantity 1 Litres

Address of the Client

Name of the Client

: Vaniamallee

M/s, SIPCOT

Group

: Water

: Surface Water

Sample Name

Sample Mark

: Lake Near Sitturnattam

Sample Reference

1 NA

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

Sample Drawn By

Sample Location Environmental Condition

1 Temperature (°C): 28.0 | Humidity (%): 51.0

Sanadine Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C	-	7.91	1S 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/L	525.0	1S 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mp/f	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C; 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
18	Cyanide as CN	mg/l	BLQ(LOQ:001)	1S 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	17,01	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	24.28
20	Percent Sodium	%	48.75	HECSG /WT/SOP/002 Issue No:01, Issue date 18.12: 2021	NA
21	Phenolic compounds as C6HSOH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	0.002
22	Phosphate as PO4	mg/l	0.15	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	6.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/I	BLQ(LOQ:1.0)	IS 11624; 2019	NA
25	Sedium Adsorption Ratio(SAR)	Square root of (millimole/tit	2.74	IS 11624: 2019	NA



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TEST REPORT

Page: 3 of 4

ULR

: TC1231024000047820F

Report No.

1 HECSL/WT/103/300924

Sample ID No

: 300924364

Sampling Date

Report Date

Received Date # 30/09/2024

Commenced Date # 30/09/2024

Completed On : 09/10/2024

Sample quantity 1 Litres

: 30/09/2024

: 09/10/2024

Address of the Client

Name of the Client

M/s. SIPCOT

: Vaniamallee

Group

: Water

Sample Name

Surface Water

Sample Mark

: Lake Near Sitturnattam

Sample Reference

: NA

mentine accidence

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

Sample Drawn By Sample Location

ENA

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan-

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (BS 2296, Class-A)
26	Sodium as Na	nig/I	87.0	1S 3025 Part 45: 1983	NA
27	Sulphate as SO4	mg/I	41.66	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalimity as CaCO3	mg/l	170.0	IS 3025 Part 23; 1986	NA
29	Total Hardness as CaCO3	mg/l	190.0	15 3025 Pwrt 23; 2009	300
30	Total Phosphorous as P	T/gmi	0.045	IS 3025 Part 31 Sec 1: 2022	NA:
31	Total Suspended Solids	mg/l	5.0	1S 3025 Part 17: 1984	NA
32	Turbidity	NTU	2.2	IS 3025 Part 10: 1984	1
33	Arsenic	mgń	BLQ (LOQ: 0.005)	USEPA 200.8: 1994	0.05
34	Bacium	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	rig/t	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead	Pgmi	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese	mg/t	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	Pgm	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001



D.Anusuya Lab Manager Authorized Signatory

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HECS-G/O/FMT/49

A-21, III Phase, Thiru Vi Ka Industrial Estate, Guindy, Chennai - 600 032.

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Name of the Client

TEST REPORT

Page: 4 of 4

ULR

: TC1231024000047820F

Report No.

FHECSL/WT/103/300924

Sample ID No : 300924364

Sampling Date : 30/09/2024

Report Date

Received Date : 30/09/2024

Commenced Date : 30/09/2024

Completed On # 09/10/2024

Sample quantity 1 Litres

109/10/2024

Address of the Client

: Vaniamallee

1 M/s. SIPCOT

Circup

: Water

1 Surface Water

Sample Name Sample Mark

: Lake Near Sitturnattam

Sample Reference:

Sample Drawn By

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

Sample Location Environmental Condition

* Temperature ("C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: IS 17614(Part-1):2021

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

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



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TEST REPORT

Page: 1 of 1

Report No.

Sample quantity 1 Litres

3 HECSL/WT/103/300924/N

Sample ID No

: 300924364 : 30/09/2024

Sampling Date

Address of the Client t Vaniamallee

> : Water Received Date

Group ÷ 30/09/2024 Surface Water Commenced Date # 30/09/2024 Sample Name Completed On : 09/10/2024 : Lake Near Sitturnattam Sample Mark : NA Sample Reference Report Date : 09/10/2024

2 M/s. Hubert Enviro care Systems (P) Ltd. Sample Drawn By I NA Sample Location

Environmental Condition * Temperature ("C) : 28.0 | Humidity (%) : 51.0

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

3 M/s, SIPCOT

S.No.	Test Parameters	Units	Results	Test Method
Discipline :	Chemical			
t Hex	evalent Chromium	mg/l	BLO(LOQ:0.01)	IS 3025 Part 52: 2003

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



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Name of the Client

TEST REPORT

Page: 1 of 3

ULR

: TC1231024000047814F

Report No.

1 HECS/PE/059/300924

Sample ID No

: 300924365

Sampling Date

Completed On

Report Date

Received Date \$ 30/09/2024

Commenced Date : 30/09/2024

Sample quantity 21 Kg

: 30/09/2024

: 09/10/2024

109/10/2024

Address of the Client

: Vaniamallee

M/s. SIPCOT

Group

: Pollution & Environment

Sample Name

Sample Mark

: Near Project Site(Vaniyamalli)

Sample Reference

Sample Drawn By

3 M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location

Environmental Condition

* Temperature (°C) : 28.0 | Humidity (%) : 51.0

S.No.	Test Parameters	Units	Results	Test Method
Discip	dine : Chemical		1	
1	Cadiroum	mg/Kg	BLQ (LOQ: (I.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	26.34	HECS-G/INS/SOP/M2 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	8.14	HECS-G/INS/SOP/ 042 Essue No.:01 Essue Date:01.03.2021
4	Zinc	mg/kg	24.86	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture		Silt clay	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	19.4	FAO of United Nations, Ronse Chapter - III 2008
7	Soil Texture ii)Silt	%	40.0	FAO of United Nations, Rome Chapter III 2008
К	Soil Texture iii)Clay	%	40.6	FAO of United Nations, Rome Chapter III 2008
9	pH Value @ 25 ° C (1 : 2.5)	74.5	7.28	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1:2)	p S/cm	760.0	IS 14767; 2000



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Name of the Client

TEST REPORT

Page: 2 of 3

ULR

: TC1231024000047814F

Report No.

* HECS/PE/059/300924

Sample ID No.

: 300924365

Sampling Date

: 30/09/2024

Address of the Client

: Vaniamallee

1 M/s. SIPCOT

Group

2 Pollution & Environment

Sample Name

t Call

Sample Mark

z Near Project Site(Vaniyamalli)

Sample Reference

: NA

ampie renerence.

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

Sample Drawn By Sample Location

+ NA

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 51.0

nd & Plans : ICARDA:20

Report Date # 09/10/2024 Sample quantity *1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	1.12	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.90	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	1.58	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	14.72	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	%	0.0695	15 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	7.24	FAO of United Nations, Rome Chapter III 2008
18	Exchangable Magnesium as Mg	mEq/L	6.32	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	5.7	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	22.2	IS 14765: 2000
21	Colour	3	Brown	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020
22	Phosphorous	µg/g	9.24	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 No.

7 HECS/PE/059/300924/N

Sample ID No

: 300924365

Sampling Date

Received Date

Completed On

Report Date

: 30/09/2024

: 30/09/2024

2 09/10/2024

: 09/10/2024

Commenced Date : 30/09/2024

Sample quantity 11 Kg

Address of the Client

Name of the Client

: Vaniamallee

: M/s. SIPCOT

Group

: Pollution & Environment

Sample Name Sample Mark

: Near Project Site(Vaniyamalli)

Sample Reference

: NA

Sample Drawn By

3 M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location

Environmental Condition

* Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: ICARDA:2013

S.No.	Test Parameters	Units	Results	Test Method
Discip	oline : Chemical			
	Manganese	mg/kg	136.84	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	2.32	Inhouse method
9	Infiltration Rate	embr	7.2	Inhouse method
	Moisture	.%	6.94	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



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Name of the Client

TEST REPORT

Page: 1 of 3

ULR

: TC1231024000047815F

Report No.

2 HECS/PE/060/300924

Sample ID No.

1300924366

Sampling Date

130/09/2024

Address of the Client

: Vaniamallee

: M/s, SIPCOT

Group

2 Pollution & Environment

Sample Name

Sample Mark

: Iguvarpalaiyam

Sample Reference

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

Sample Drawn By

Sample Location

* Temperature (°C): 28.0 | Humidity (%): 51.0

Environmental Condition

Received Date 1 30/09/2024 Commenced Date : 30/09/2024 Completed On : 09/10/2024 Report Date : 09/10/2024

Sample quantity 1 Kg

Sampling Method & Plan : ICARDA:2013

S.No.	Test Parameters	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	Chromium	mg/Kg	24.94	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03:2021
3	Copper	mg/Kg	8,12	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01:03.2021
4	Zinc	mg/kg	28.47	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture		Clay	FAO of United Nations, Rome Chapter - III 2008
fi	Soil Texture i)Sand	%	22.2	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	21.2	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	56.6	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)		7,34	IS 2720 (Part. 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	165.0	IS 14767: 2000



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TEST REPORT

Page: 2 of 3

ULR

: TC1231024000047815F

Report No.

: HECS/PE/060/300924

Sample ID No

: 300924366

Report Date

Received Date : 30/09/2024

Commenced Date : 30/09/2024

Completed On : 09/10/2024

Sample quantity 71 Kg.

Sampling Date

: 30/09/2024

: 09/10/2024

Address of the Chest

Name of the Chent

: M/s. SIPCOT : Vaniamallee

Group

: Pollution & Environment

Sample Name

: Iguvarpalaiyam

Sample Mark Sample Reference

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

Sample Drawn By Sample Location

Environmental Condition

* Temperature (°C) : 28.0 | Humidity (%) : 51.0

* ICAPDA - 2013

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	1.22	FAO of United Nations Rome 2007
12	Organic Carbon	%	1,40	1S 2720 (Part 22) Section I 1972
13	Organic Matter	%	2.42	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	9.54	FAO of United Nations, Rome Chapter - III 2008
15	Borne 28 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	%	0.0340	1S 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	10.54	FAO of United Nations, Rome Chapter - 111 2008
18	Exchangable Magnesium as Mg	mEq/L	9.54	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	5.8	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	20.2	IS 14765: 2000
21	Colour		Brown	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020
22	Phosphorous	H2/E	12.24	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: Lof L

Report No.

* HECS/PE/060/300924/N

Sample ID No

: 300924366

Sampling Date

Received Date

Report Date

Commenced Date # 30/09/2024

Completed On : 09/10/2024

Sample quantity 1 Kg

: 30/09/2024

1.30/09/2024

109/10/2024

Address of the Client

Name of the Client

r Vaniamallee

3 M/s. SIPCOT

Group

: Pollution & Environment

Sample Name

Sample Mark

: Iguvarpalaiyam

Sample Reference

INA

Sample Drawn By

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

Sample Location

* Temperature (°C): 28.0 | Humidity (%): 51.0

Environmental Condition unding Marked & 19au

: ICARDA - 2013

S.No.	Test Parameters	Units	Results	Test Method
Discip	dine : Chemical			
	Manganese	mg/kg	121.68	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	18.64	Inhouse method
3	Infiltration Rate	embr	4.6	Inhouse method
4	Moisture	56	7.92	HECS-G/ENV/SSW/SOP/003 Issue No. 01 Issue Date 02:07: 2020

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

Chenna

D.Anusuya Lab Manager

Authorized Signatory

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TEST REPORT

Page: 1 of 3

ULR

: TC1231024000047816F

Report No.

3 HECS/PE/061/300924

Sample ID No

: 300924367

1 09/10/2024

: 09/10/2024

Sampling Date

Completed On

Report Date

Received Date : 30/09/2024

Commenced Date 3 30/09/2024

Sample quantity 1 Kg

: 30/09/2024

Address of the Client

Name of the Client

: Vaniamallee

3 M/s, SIPCOT

Group

: Pollution & Environment

* Soil

Sample Name

: Gummidipundi

Sample Mark

Sample Reference

Sample Drawn By

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

Sample Location Environmental Condition : NA

2 Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: ICARDA:2013

S.No.	Test Parameters	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	Chromium	ту/Кд	31.72	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
1	Copper	mg/Kg	5.41	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	19.57	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	*	Silty clay loam	FAO of United Nations, Rome Chapter III 2008
5	Soil Texture ()Sand	%	18.2	FAO of United Nations, Rome Chapter III 2008
7	Soil Texture ii)Silt	No.	52.6	FAO of United Nations, Rome Chapter III 2008
8	Soil Texture mXTay	%	28.6	FAO of United Nations, Rome Chapter III 2008
9	pH Value @ 25 * C (1 : 2.5)	340	6.72	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1:2)	p.S/cm	792.0	IS 14767; 2000



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Guindy, Chennai - 600 032. Ph: 42985555 / 43635555 Fax: 42985500

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TEST REPORT

Page: 2 of 3

ULR

: TC1231024000047816F

Report No.

* HECS/PE/061/300924

Sample ID No

: 300924367

Sampling Date

Completed On

Report Date

Received Date # 30/09/2024

Commenced Date : 30/09/2024

Sample quantity 1 Kg

: 30/09/2024

: 09/10/2024

: 09/10/2024

Address of the Client

Name of the Client

M/k, SIPCOT : Vaniamallee

Group

: Pollution & Environment

: Soil

Sample Name

: Gummidipundi

Sample Mark

Sample Reference

t NA

1 M/s. Hubert Enviro care Systems (P) Ltd.

Sample Drawn By

Sample Location Environmental Condition

* Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: ICARDA:2013

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	1.24	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.96	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	1.66	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	7.12	FAO of United Nations, Rome Chapter III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.:01 fosue Date:02:07 2020
16.	Total Nitrogen as N	%	0.0462	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	тБqЛ.	6.94	FAO of United Nations, Rome Chapter III 2008
18	Exchangable Magnesium as Mg	mEq/L	6.56	FAO of United Nations, Rome Chapter III 2008
19	Cation Exchange Capacity	mEq/100g	3.9	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	17.6	IS 14765; 2000
21	Colour	9	Black	HECS-G/ENV/SSW/SOP/011 Issue No:-01 Issue Date:02:07: 2020
22	Phosphorous	#g/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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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: Inf I

Report No.

2 HECS/PE/061/300924/N

Sample ID No

: 300924367

Sampling Date

: 30/09/2024

Address of the Client

Name of the Client

: Vaniamallee

t M/s, SIPCOT

Group

Pollution & Environment

Received Date + 30/09/2024

Sample Name

t Soil

Commerced Date 2 30/09/2024

: 09/10/2024

Sample Mark

: Gummidipundi

Completed On

Sample Reference

: NA

Report Date

109/10/2024

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

Sample quantity 11 Kg

Environmental Condition

* Temperature (°C) : 28.0 | Humidity (%) : 51.0

Sampling Method & Plan.

: ICARDA:2013

S.No.	Test Parameters	Units	Results	Test Method
Discip	oline : Chemical	•		-
1	Manganese	mg/kg	130.58	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	2.92	Inhouse method
3	Infiltration Rate	cm/hr	7.4	Inhouse method
4.	Moisture	%	4.12	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 .



D.Anusuva Lab Manager Authorized Signatory

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HECS_C/O/FMT/49 HECS-G/Q/FMT/49

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TEST REPORT

Page: 1 of 3

ULR

: TC1231024000047817F

Report No.

1 HECS/PE/062/300924

Sample ID No

: 300924368

Sampling Date

Completed On

Report Date

Received Date \$ 30/09/2024

Commenced 13ate # 30/09/2024

Sample quantity 11 Kg

: 30/09/2024

: 09/10/2024

: 09/10/2024

Address of the Client

Name of the Client

: Vaniamallee

: M/s, SIPCOT

Group

Pollution & Environment

: Soil

Sample Nanse Sample Mark

: Guruvarajakandigai

Sample Reference

Sample Drawn By

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

Sample Location

Environmental Condition

* Temperature (°C): 28.0 | Humidity (%): 51.0

olion Markov & Die

· ICADDA - 2013

S.No.	Test Parameters	Units	Results	Test Method
Discip	line : Chemical			
t	Codmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01:03.2021
2	Chromium	mg/Kg	34.82	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	7.15	HECS-G/INS/50P/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	31,41	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture		Clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	25.2	FAO of United Nations, Rome Chapter- III 2008
7	Soil Texture ii)Silt	%	32.4	FAO of United Nations, Rome Chapter- 111 2008
8	Soil Texture in Clay	%	42,4	FAO of United Nations, Rome Chapter III 2008
9	pH Value @ 25 ° C (1 : 2.5)	5.5	7.38	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	169.8	IS 14767: 2000



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Laboratory Services Division

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Name of the Client

TEST REPORT

Page: 2 of 3

ULR

: TC1231024000047817F

Report No.

1 HECS/PE/062/300924

Sample ID No

: 300924368

Sampling Date

Completed On

Report Dire

Received Date : 30/09/2024

Commenced Date: 30/09/2024

Sample quantity 1 Kg

: 30/09/2024

109/10/2024

: 09/10/2024

Address of the Client

z Vaniamallee

M/s. SIPCOT

Group

2 Pollution & Environment

Sample Name

Sample Mark

: Guruvarajakandigai

Sample Reference

Sample Drawn By

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

Sample Location Environmental Condition

: Temperature ("C): 28.0 | Humidity (%): 51.0

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	1.24	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.55	1S 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.94	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	11.56	FAO of United Nations, Rome Chapter- III 2008
15	Boron as B	mpkg	BLQ(LOQ 1.0)	HECS-G/ENV/SSW/SOP/018 Issue No::01 Issue Date:02:07 2020
16	Total Ninogen as N	74	0.0168	1S 14684 Clause 4 1999
17	Exchangable Calcium 2s Ca	mEq/L	10.54	FAO of United Nations, Rome Chapter III 2008
18.	Exchangable Magnesium as Mg	mEq/L	8.24	FAO of United Nations, Rome Chapter III 2008
19	Cation Exchange Capacity	mEq/100g	6.7	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	18.8	IS 14765; 2000
21	Colour		Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020
22	Phosphorous	9/2/2	BLQ(LOQ 5.8)	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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Ph: 42985555 / 43635555 Fax: 42985500

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TEST REPORT

Page: I of I

Report No.

1 HECS/PE/062/300924/N

M/s. SIPCOT

Sample ID No :300924368 Sampling Date

: 30/09/2024

Address of the Client

Name of the Client

: Vaniamallee

: Pollution & Environment

Received Date # 30/09/2024

Sample Name

Commenced Date 2 30/09/2024

Sample Mark

Completed On : 09/10/2024

Sample Reference

: Guruvarajakandigai

109/10/2024 Report Date

Sample Drawn By

2 M/s. Hubert Enviro care Systems (P) Ltd.

Sample Location

Sample quantity 1 Kg

Environmental Condition

* Temperature (°C): 28.0 | Humidity (%): 51.0

Sampling Method & Plan

: ICARDA: 2013

S.No.	Test Parameters	Units	Results	Test Method
Discip	line: Chemical	- 1/2		
1	Manganese	mg/kg	135.25	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	BLQ(LOQ 0.02)	Inhouse method
3	Infiltration Rate	canhe	7.8	Inhouse method
4	Moisture	14	8.02	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020

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



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Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax: 42985500

E-mail: labsales@hecs.in



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TEST REPORT

Page: 1 of 3

ULR

: TC1231024000047818F

Report No.

1 HECS/PE/063/300924

Sample ID No.

: 300924369

Sampling Date:

130/09/2024

Address of the Client.

Name of the Client

: Vaniamaltee

: M/s, SIPCOT

: Pollution & Environment

Sample Name

Group

: Soil

Commenced Date : 30/09/2024

Sample Mark

: Teruvai

Completed On 109/10/2024

Sample Reference

: NA

: 09/10/2024

Sample Drawn By

Report Date Sample quantity 11 Kg

Sample Location

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

* Temperature (°C): 28.0 | Humidity (%): 51.0

Environmental Condition Sampling Method & Plan.

: ICARDA:2013

S.No.	Test Parameters	Units	Results	Test Method
Discip	line : Chemical		-1	
	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/442 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	34.18	HECS G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	8.74	HECS-G/INS/SOP/ 047 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	31.14	HECS-G/INS/SOP/ 042 baue No.;0) Issue Date:01.03.2021
5	Soil Texture		Clay loam	FAO of United Nations, Rome Chapter - III 2008
ń	Soil Texture i)Sand	%	33.2	FAO of United Nations, Rome Chapter III 2008
7	Soil Texture ii)Silt	%	31.5	FAO of United Nations, Rome Chapter III 2008
8	Soil Texture in Ctay	%	35.3	FAO of United Nations, Rome Chapter- III 2008
9	pH Value @ 25 * C (1 : 2.5)	114	7.38	1S 2720 (Part 26) 1987
10:	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	160.0	1S 14767: 2000



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Name of the Client

Address of the Client

TEST REPORT

Page: 2 of 3

ULR

2 TC1231024000047818F

Report No.

3 HECS/PE/063/300924

Sample ID No

: 300924369

Sampling Date

Completed On

Report Date

: 30/09/2024

: 09/10/2024

: 09/10/2024

Received Date : 30/09/2024

Commenced Date 2 30/09/2024

Sample quantity 11 Kg

: Vaniamallee

I M/s. SIPCOT

Group

: Pollution & Environment

Sample Name

3 Soil

: Teruvai

Sample Mark

Sample Reference

: NA

Sample Drawn By

* M/s.Hubert Enviro care Systems (P) Ltd.

Sample Location

Environmental Condition

* Temperature (°C) : 28.0 | Humidity (%) : 51.0

Sampling Method & Plan

: ICARDA:2013

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	1.12	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.49	4S 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.86	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	11.24	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	%	0.0095	IS 14684 Classe 4 1999
17	Exchangable Calcium as Ca	тЕф1,	13.54	FAC) of United Nations, Rome Chapter HI 2008
18	Exchangable Magnesium as Mg	mEq4.	12.54	FAO of United Nations, Rome Chapter 111 2008
19	Cation Exchange Capacity	mEq/100g	4.5	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	56	18.6	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Dute:02:07: 2020
22	Phosphorous	₩g/g	5.62	FAO of United Nations, Rome Chapter

% - Percentage.

End of Report



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HECS-G/O/FMT/49 HECS-G/O/FMT/49

Hubert Enviro Care Systems (P) Ltd.

A-21, III Phase, Thiru Vi Ka Industrial Estate, Guindy, Chennal - 600 032.

Ph: 42985555 / 43635555 Fax: 42985500

E-mail: labsales@hecs.in

Laboratory Services Division

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TEST REPORT

Page: Lof I

Report No.

1 HECS/PE/063/300924/N

Sample ID No

: 300924369

Sampling Date

Completed On

Report Date

Received Date 1 30/09/2024

Commerced Date: 30/09/2024

Sample quantity #1 Kg

: 30/09/2024

3 09/10/2024

I 09/10/2024

Address of the Client

Name of the Client

: Vaniamallee

: M/s. SIPCOT

Group

: Pollution & Environment

: Soil

Sample Name

: Teruvai

Sample Mark Sample Reference

: NA

Sample Drawn By

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

Sample Location Environmental Condition

* Temperature (°C) : 28.0 | Humidity (%) : 51.0

S.No.	Test Parameters	Units	Results	Test Method
Discip	dine : Chemical			
	Manganese	mg/kg	135.24	HECS-G/INS/SOP/042
2	Iron	mg/kg	5,22	Inhouse method
E	Infiltration Rate	cmhr	6.4	Inhouse method
ř	Moisture	%	7,24	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

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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Name of the Client

TEST REPORT

Page: 1 of I

ULR

: TC1231024000047317F

Report No.

HECS/AP/184/300924

Sample ID No

: 300924359

Sampling Date

: 30/09/2024

Address of the Client

: M/s. SIPCOT

: Vaniamallee

Group

: Atmospheric Pollution

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

Received Date 30/09/2024 Commenced Date: 30/09/2024

Sample Name

: Ambient Noise Levels (Excluding vibration) (Env)

Sample Mark

: Noise

Completed On

: 05/10/2024

Sample Reference

: NA

Report Date Sample quantity : NA

: 05/10/2024

Sample Drawn By Sample Location

: Temperature (°C): 32.0

| Humidity (%): 56.0

Environmental Condition Sampling Method & Plan

15 9989-1981

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Near Project Site(Vaniyamalli)	54.5	44,2
2	Gummidipundi	52.2	43.3
3	lguvarpalaiyam	53.4	42.8
4	Guruvarajakandigai	52.8	40.9
5	Teruvai	53.6	43.6
	The state of the s		

Noise Standards - CPCB:

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

Note:

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

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



Dr. Rajkumar Samuel Director Technical Authorized Signatory

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 Unless specifically requested by customer the test items will not be rotained more than 15 days from the date of issue of test report.
 Unless specifically requested by customer the test items will not be rotained more than 15 days from the date of issue of test report.
 Unless specifically requested by use or mission of lest report after invoicing or issue of test report.
 The test results relate only to the test items.

HECS. CANDINATIAN. HECS-G/Q/FMT/49





CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD



SUPERINTENDING ENGINEER(WT&T)

2798 2023

Lr.No.CMWSSB/WT&T/RO-II/SIPCOT-MANALLUR

To.

The Superintending Engineer,

SIPCOT.

No.19 - A. RukmaniLakshmipathy Road,

Post box no. 7223,

Egmore,

Chennai - 600008.

CTIVE



Sir.

Sub: CMWSS Board – C.E.(O&M) II - S.E.(WT&T) - Providing 10MLD of raw water supply from SIPCOT Industrial Park at Thervoykandigal to proposed Industrial park at Manallur – Status of work - Intimation – Reg

Ref. 1)Lr.No.CMWSSB/WT&T/RO-II/SIPCOT-MANALLUR dated 19.09.2022 2)Lr.No. CD/Water Supply/MNL/2022 dated 10.01.2023

With reference to 1st cited above, CMWSSB has acknowledged the online transfer of the deposit amount of Rs.38.26 crores from SIPCOT for the work of "Providing 10MLD of raw water supply from SIPCOT Industrial Park at Thervoykandigai to proposed Industrial park at Manallur". The SIPCOT requested CMWSSB to intimate the work schedule and status for the above work vide reference 2nd cited.

In this connection, it is informed that the tenders were invited for the work of "Providing 10MLD of raw water supply from SIPCOT Industrial Park at Thervoykandigal to proposed Industrial park at Manallur" with tender due on 01.02.2023. The evaluation of tender are under progress and after finalization of tender the work order will be issued for execution of the above work. Later, on signing the agreement by the successful bidder, the work program can be formulated and subsequently SIPCOT would be intimated of the work program.

Sang 2 3.02.23

Superintending Engineer (WT&T)





CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD -MANAGING DIRECTOR



Lr.No.CMWSSB/CE(O&M)II/STP(N)/45TTRO - KOD/039/SIPCOT-MANALLUR. Date: 25.03.2023

To.

The Managing Director. SIPCOT. No.19 - A. RukmaniLakshmipathy Road. Egmore.

Chennal - 600008

Sir,

11379 2023



Sub: CMWSSB - C.E(O&M-II) - S.E(W.W.T&R) - E.E STP (North) - 45 MLD capacity Tertiary Treatment Reverse Osmosis (TTRO) plant at Kodungaiyur -Supply of TTRO water to proposed SIPCOT industrial park at Manallur. Gummudipoondi &Thervoykandigai - Outline project cost for TTRO plant & pipeline arrived - Request made by Managing Director SIPCOT to consider conveyance system alone-Outline project cost arrived-Estimate amount to be deposited - Requested - Reg.

Ref. 1 Minutes of the meeting conducted by Managing Director. SIPCOT with CMWSSB officials on 10 10 2022

2 SIPCOT Lr.No.CD/Water Supply/MNL/2022, Dated 02 12 2022

During the joint review meeting on reuse of recycled water for industrial purpose held by Additional Chief Secretary to Government for IIP&CD & Additional Chief Secretary to Government for MA&WS dept on 22 11 2022 CMWSSB was instructed to prepare and send the DPR for supplying 22.70 MLD TTRO water from the existing 45MLD TTRO plant to enable SIPCOT for making payment to takeup this work on a deposit work basis.

In this connection, CMWSSB has prepared the outline proposal cost taking into consideration the following excluding the O&M of the pipelines and pumping stations.

- Conducting Pre-design survey. Soil investigations. Detailed Design and estimate etc.
- ii. Supplying, Laying, Testing and conveying main of size 700mm dia MS Transmission main for conveying TTRO water from Kodungaiyur upto proposed SIPCOT industrial park at Manallur for an approxima 62.5km and 300mm dia DI pipe from proposed SIPCOT industrial complex for a length of 17km.

 Manallur to ThervoyKandigai industrial complex for a length of 17km. Transmission main for conveying TTRO water from Kodungaiyur TTRO plant upto proposed SIPCOT industrial park at Manallur for an approximate length of 62.5km and 300mm dia DI pipe from proposed SIPCOT industrial park at
 - iii. Construction of Storage Tank of 2 Nos. of 5 ML Capacity, and pump house of required size including electrical accessories and pumping machineries each at TTRO plant and Manallur Industrial Complexes including foundation, earthwork excavation, shuttering, reinforcement using Epoxy coated Steel / CRS, concrete of M30 and its allied works

Temporary Address: Urban Administrative Building, 1" to 4" Floor, No. 75, Santhome High Road, MRC Nagar, Chennai - 28. Permanent Address: No. 1, Pumping Station Road, Chintadripet, Chennai - 600 002.

- iv. Providing Suction and delivery arrangements including interconnecting with existing sumps with proposed sump at Kodungaiyur TTRO plant and also laying pipeline to the existing sump at Manallur.
- v. Construction of Pipe Carrying Bridge at 8 locations.
- vi. Railway crossing using Trenchless Method at 3 locations.
- vii. Laying transmission main using Trenchless Technology to cross main roads as instructed by the service department at 10 locations.
- Supply, transporting, erection, testing and commissioning of pump sets and its allied civil, mechanical, Electrical and Instrumentation Works.
- ix. Cathodic Protection for 700mm dia MS Transmission main of 65.2 km length from treated water storage sump at TTRO plant to proposed sump of Manallur industrial complexes.
- x. Final Commissioning with detail report preparation, As-built Drawing and submission.

The estimate has been worked out for an amount of Rs.418 Crores for the work of "Supplying, Laying, Jointing and Testing of 700 mm dia MS pipes & 300 mm dia DI Pipes for Conveying TTRO Water from TTRO Plant at Kodungaiyur to Gummidipoondi, Manallur and Thervoykandigai SIPCOT Industrial Complex and other allied Civil, Mechanical, Electrical and Instrumentation works"

The estimate has been prepared based on the CMWSSB SoR 2022-2023, TWAD Board SoR 2022-2023, PWD SoR2022-2023 and approved settled rates for ongoing works in CMWSSB.

For any variations in cost during execution of the work due to change in length of transmission mains, roadcut restoration charges, EB deposit charges, differences over the department amount and contract amount, and escalation in rates over period of years also increase in the estimate cost due to revision based on the SOR of the execution year and any other items rate not contemplated in the estimate the same shall be borne by SIPCOT and CMWSSB reserves the right to claim the amount as and when it is required. The charges towards supply of TTRO water to the hubs will be decided on completion of the works based on the available tariff

Further, SIPCOT shall be responsible for obtaining permissions from other statutory departments viz. Southern Railways, State and National Highways, District & Village roads, PWD, PC3, etc, and also shall be responsible for allotment of required lands at free of cost to CMWSSB for construction of sump, pump house etc. SIPCOT shall also be responsible for providing electric power supply at the proposed intermediate storage sump at Manallur.

The Detailed Project Report prepared is putup for reference. SIPCOT is requested to provide its concurrence for making deposit of Rs.418.00 Crore to enable CMWSSB to take necessary further action.

MANAGING DIRECTOR

Annexure - 6

SIPCOT – Vaniyamalli MONITORING PHOTOGRAPHS

AMBIENT AIR QUALITY MONITORING PHOTOS:

NEAR PROJECT SITE(VANIYAMALLI)



IGUVARPALAIYAM



GUMMIDIPUNDI



GURUVARAJAKANDIGAI



TERUVAI



GROUND WATER SAMPLING PHOTOS



GUMMIDIPUNDI



NOISE SAMPLING PHOTOGRAPH



TERUVAI

30-09-2024

SOIL MONTORING PHOTOGRAPH



TERUVAI



SURFACE WATER SAMPLING PHOTOGRAPH

POND NEAR VANIYAMALLI



LAKE NEAR SITTURNATTAM





Lr.no. PO/SIP/MNL/EC/2024

Date: 13.05.2024

To, The Block Development Officer, Block Development Office, Gummidipoondi Taluk.

Sir,

Sub: SIPCOT - Proposed Development of SIPCOT Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee Villages, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu - Submission of Copy of Environmental Clearance (EC) issued by SEIAA - Reg.

Ref: SEIAA EC Identification No. EC24B3813TN5100474N dated: 22.04.2024

With reference to the above, it is to inform that, SIPCOT has obtained Environmental Clearance (EC) from the State Environment Impact Assessment Authority (SEIAA) for the Proposed Development of SIPCOT Industrial Park with Industrial Housing Facility over an extent of 215.834 Hectares (533.11 Acres) at Soorapoondi and Vaniamallee Villages, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu.

In accordance with the conditions specified in the EC, it is required that the project proponent must submit the copy of the environmental clearance to the Heads of local bodies, Panchayats, and Municipal Bodies. Subsequently, the above specified bodies are obligated to display the same for a period of 30 days from the date of receipt.

In this regard, we hereby enclose the copy of the environmental clearance for your kind perusal.

Yours faithfully,

PROJECT OFFICER,

SIPCOT / MANELLORE

Encl: As above.

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tate Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking) CIN: U74999TN1971SGC005967

lukmani Lakshmipathy Road,

This. Office: MDR, Manellore Village, Madharpakkam Post,



Lr.no. PO/SIP/MNL/EC/2024

Date:13.05.2024

To. The President, Vaniyamallee Village, Gummidipoondi Taluk.

Sir,

Sub: SIPCOT - Proposed Development of SIPCOT Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee Villages, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu - Submission of Copy of Environmental Clearance (EC) issued by SEIAA - Reg.

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(A Government of Tamil Nadu Undertaking)

CIN: U74999TN1971SGC005967

हमाताः से श्रम्भातां

Regd. Office: 19-A, Rukmani Lakshmipathy Road,

This, Office: MDR, Manellore Village, Madharpakkam Post,



Lr.no. PO/SIP/MNL/EC/2024

Date:13.05.2024

The President, Soorapoondi Village, Gummidipoondi Taluk.

Sir,

Sub: SIPCOT - Proposed Development of SIPCOT Industrial Park with Industrial Housing Facility at Soorapoondi and Vaniamallee Villages, Gummidipoondi Taluk, Tiruvallur District, Tarnil Nadu - Submission of Copy of Environmental Clearance (EC) issued by SEIAA - Reg.

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SIPCOT / MANELLORE

State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN: U74999TN1971SGC005967

Regd. Office: 19-A, Rukmani Lakshmipathy Road,

This. Office: MDR, Manellore Village, Madharpakkam Post, C 135 25 PR. PR. L. Bear Day Con 909

ENVIRONMENTAL MANAGEMENT CELL

1. INTRODUCTION:

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

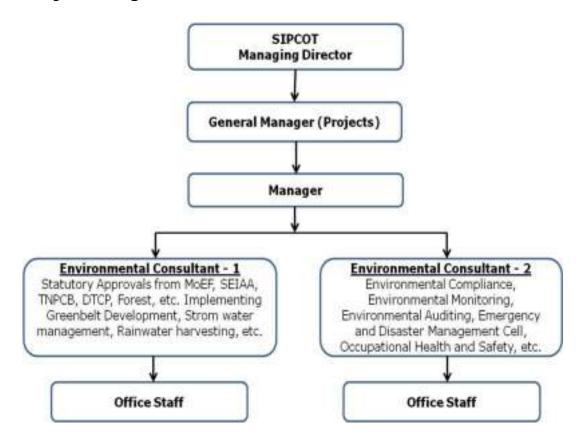


Figure - 1 Organogram for Environmental Management Cell

2. RESPONSIBILITIES OF ENVIRONMENTAL MANAGEMENT CELL:

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

Table - 1: Roles and responsibilities of EMC

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