`HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

For the Period of April 2024 – September 2024

For

"DEVELOPMENT OF SPECIAL ECONOMIC ZONE (SEZ) AT KALLAKURICHI DISTRICT Land area – 77.095 Ha. (190.42 Acres)"

EC Obtained vide Letter No SEIAA-TN/F.NO 9898/8(b)/EC. No: 1001/2023, dated: 10.01.2024

EC Amendment obtained vide Identification No. EC24B3813TN5337555A, File No. 9898 dated 18.06.2024

Submitted by



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

Egmore, Chennai-600008.

Prepared by



ENVIRONMENTAL CONSULTANT HUBERT ENVIRO CARE SYSTEMS (P) LTD CHENNAI

November 2024

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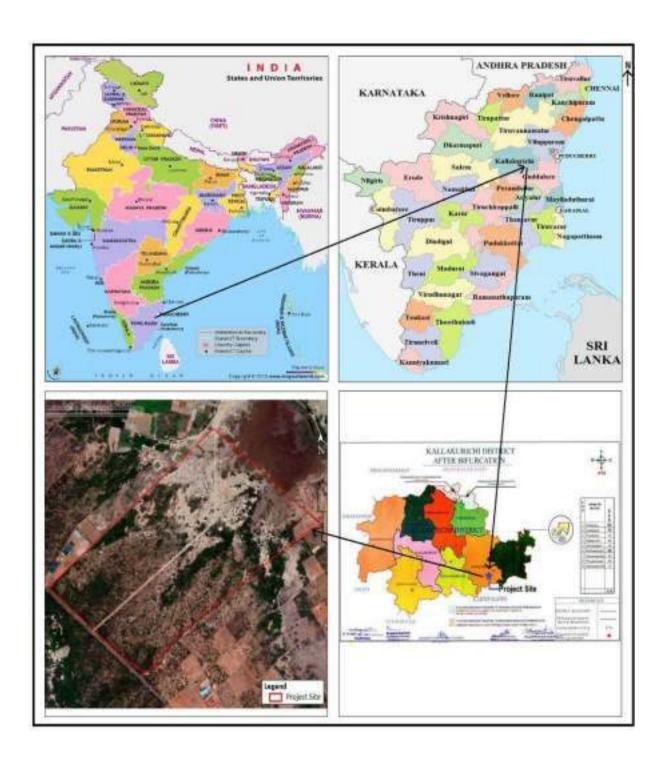
LIST OF ANNEXURE

S. No	List Of Contents
Annexure 1	Copy of Environmental Clearance
Annexure 2	Copy of Amendment in Environmental Clearance
Annexure 3	Screenshot of EC and Compliance Report uploaded in website
Annexure 4	Acknowledgement on submission of Form V to TNPCB and
	Screenshot of Environmental Statement uploaded in website
Annexure 5	Newspaper Advertisement
Annexure 6	Environment Monitoring Reports
Annexure 7	Water supply letter from TWAD
Annexure 8	Environmental Monitoring Photos
Annexure 9	Environmental Management Cell

1. PROJECT DETAILS

Name of the Project	Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District [Land Area 77.095 Ha. (190.42 Acres)]
Name of the Proponent	M/S. State Industries Promotion Corporation of Tamil Nadu Ltd.
Location	A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu.
EC. No	Lr No SEIAA-TN/F.NO 9898/8(b)/EC. No: 1001/2023, dated:10.01.2024 (Enclosed as Annexure 1) EC Amendment obtained vide Identification No. EC24B3813TN5337555A, File No. 9898 dated 18.06.2024 (Enclosed as Annexure 2)
Total Extent	77.095 Ha. (190.42 Acres)
Water Requirements	Source: Letter from TWAD for the supply of 3.20 MLD Fresh water supply from 10.00 MLD dedicated Water supply scheme to AlIRLIVAS site at Thalaivasalkoot Road in Salem District vide Letter no. F.SIPCOT/JDO/RWS/SLM/2023/dated: 10.01.2023 (Enclosed as Annexure 7)
Project Cost	Rs.2302 Crore

2. LOCATION MAP



3. SITE PHOTOGRAPH





4. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

SEIAA Condition.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The PP shall obtain fresh water supply	Water supply letter from TWAD Board is
	commitment letter from the Competent	enclosed as Annexure 7
	authority before obtaining CTE from TNPCB	

Climate Change

Annexure 'C'

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The proponent shall adopt strategies to	Condition noted.
	decarbonize the building.	All the member units will be instructed to
		follow applicable rules and guidelines.
2.	The proponent shall adopt strategies to reduce	Condition noted.
	emissions during operation (operational phase	All the member units will be instructed to
	and building materials).	follow applicable rules and guidelines.
3.	The proponent shall adopt strategies to reduce	Condition noted.
	temperature including the Building Façade.	All the member units will be instructed to
		follow applicable rules and guidelines.
4.	The proponent shall adopt methodology to	Condition noted.
	control thermal environment and other shocks in	All the member units will be instructed to
	the building.	follow applicable rules and guidelines.
5.	The proponent shall adopt detailed plan to	Condition noted.
	reduce carbon footprints and also develop	All the member units will be instructed to
	strategies for climate proofing and climate	follow applicable rules and guidelines.
	mitigation.	
6.	The proponent shall adopt strategies to ensure	Condition noted.
	the buildings in blocks are not trapping heat to	All the member units will be instructed to
	become local urban heat islands.	follow applicable rules and guidelines.
7.	The proponent shall ensure that the building does	Condition noted.
	not create artificial wind tunnels creating cold	All the member units will be instructed to
	water and uncomfortable living conditions	follow applicable rules and guidelines.

Ī	8.	The activities should in no way cause emission	Condition noted.
		and build-up Green House Gases. All actions to	All the member units will be instructed to
		be eco-friendly and support sustainable	follow applicable rules and guidelines.
		management of the natural resources within and	
		outside the campus premises.	
-	9.	The proponent shall ensure that the buildings	Condition noted.
		should not cause any damage to water	. All the member units will be instructed to
		environment, air quality and should be carbon	follow applicable rules and guidelines.
		neutral building.	
		neutral building.	

Health

-	ICCIT	
	10.	The proponent shall adopt strategies to Condition noted.
		maintain the health of the inhabitants

Energy

Energ	<u>Y</u>	
11.	The proponent shall adopt strategies to reduce	Condition noted.
	electricity demand and consumption.	All the member units will comply with.
12.	The proponent shall provide provisions for	Condition noted.
	automated energy efficiency.	All the member units will comply with.
13.	The proponent shall provide provisions for	Condition noted.
	controlled ventilation and lighting systems.	All the member units will comply with.
14.	The proponent shall provide solar panels and	Condition noted.
	contribute to the grid from the solar panel as	Individual industries will Comply with.
	proposed.	
15.	All the construction of Buildings shall be energy	Condition noted. Individual industries will
	efficient and conform to the green building	Comply with.
	norms. The PP shall ensure that carbon neutral	
	building.	
16.	The proponent shall provide adequate capacity of	Condition noted.
	DG set (standby) for the proposed STP so as to	All the member units will comply with
	ensure continuous and efficient operation.	

Regulatory Frameworks

17.	The proponent shall adopt methodologies to	Condition noted
	effectively implement the Solid Waste	Condition noted.
	Management Rules, 2016, E-Waste (Management)	All the member industries will be instructed
	Rules, 2016, Plastic Waste Management Rules,	to follow necessary rules and guidelines.
	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	
1.0	(Management and Handling) Rules, 2001.	Condition will be
18.	The project proponent shall ensure to provide	
	adequate elevated closed area earmarked for	complied.
	collection, segregation, storage & disposal of	All the member industries will be instructed
	wastes generated within the premises as per	to follow necessary rules and guidelines.
	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	Not applicable it is an infrastructure
	CMDA/DTCP.	development project. All the member units
		will be instructed to follow the applicable
		rules and guidelines.

Database maintenance & audits

20.	The database record of environmental conditions of	Condition noted.
	all the events from pre- construction, construction	All the member units will comply with.
	and post-construction should be maintained in	
	digitized format.	
21.	The proponent should maintain environmental audits	Condition noted.
	to measure and mitigate environmental concerns.	All the member units will comply with.

Biodiversity

22.	There should not be any impact due to the	Condition noted.
	modification of the habitat on critically endangered	All the member units will comply with.
	species, biodiversity, etc.	
23.	The proponent shall ensure that the proposed	Condition noted.
	activities in no way result in the spread of invasive	All the member units will comply with.
	species.	
24.	The proponent shall adopt sustainability criteria to	Condition noted and Accepted.
	protect the micro environment from wind turbulences and change in aerodynamics since high	All the member units will be instructed to follow the applicable rules and guidelines.
	rise buildings may stagnate air movements.	
25.	The proponent shall ensure almost safety for the	
	existing biodiversity, trees, flora & fauna shall not	All the member units will comply with.
	disturb under any circumstances.	
26.	The proponent shall develop building-friendly pest	Condition noted.
	control strategies by using non chemical measures	All the member units will comply with.
	so as to control the pest population thereby not losing	
	beneficial organisms.	
27.	The proponent shall adopt strategies to prevent bird	Condition noted.
	hits. Safety measures	All the member units will comply with.
28.	The proponent should develop an emergency	Condition noted.
	response plan in addition to the disaster management	All the member units will comply with.
	plan.	

29.	The proponent shall develop detailed evacuation plan	Condition noted.
	for disabled people and safety evacuation plan in	All the member units will comply with.
	emergencies.	
30.	All bio-safety standards, hygienic standards and	Condition noted.
	safety norms of working staff and patients to be	All the member units will be instructed to
	strictly followed as stipulated in EIA/EMP.	follow applicable rules and guidelines.
31.	The disaster management and disaster mitigation	Condition noted.
	standards to be seriously adhered to avoid any	All the member units will be instructed to
	calamities.	follow applicable rules and guidelines.
32.	The proponent shall provide the emergency exit in	Condition noted.
	the buildings.	All the member units will comply with.
33.	The proponent shall adhere to the provision and	Condition noted. All the member units will
	norms regard to fire safety prescribed by competent authority.	be instructed to follow applicable rules and

Water/Sewage

34.	The proponent shall ensure that no treated or	Condition noted.
	untreated sewage shall be let outside the project site	All the member units will be mandated to
	& shall find access to nearby water-bodies under	have STP/ETP for treatment of
	any circumstances other than the permitted mode of	sewage/effluent and to reuse the treated water
	disposal.	within their premises.
35.	The proponent shall provide STP of adequate	Condition noted.
	capacity as committed and shall continuously &	All the member units will comply with.
	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	Condition noted.
	sewage the through TNPCB lab/NABL accredited	All the member units will comply with.
	laboratory and submit report to the TNPCB.	

37.	The proponent shall periodically test the water	Condition noted.
	sample for the general water quality core parameters	All the member units will comply with.
	including fecal coliform 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 should be	Condition noted.
	given for proper utilization of recycled water.	All the member units will be mandated to have
		STP/ETP for treatment of sewage/effluent and
		to reuse the treated water within their premises
20		~
39.	The project proponent shall adhere to storm water	Condition noted.
	management plan as committed.	All the member units will comply with.

Parking

40.	The project proponent shall adhere to provide	Condition noted.
	adequate parking space for visitors of all inmates	All the member units will comply with.
	including clean traffic plan as committed. Solid	
	waste Management	
41.	The proponent shall ensure that no form of municipal	Condition noted.
	solid waste shall be disposed outside the proposed	All the member units will be instructed to
	project site at any time.	follow all applicable rules and guidelines.
42.	The proponent should strictly comply with, Tamil	Condition noted.
	Nadu Government order regarding ban on one time	All the member units will comply with.
	use and throwaway plastics irrespective of thickness	
	with effect from 01.01.2019 under Environment	
	(Protection) Act, 1986.	

EMP

Ī	43.	The proponent shall ensure that the EIA/EMP and Condition noted.
		disaster management plan should be adhered strictly. All the member units will comply with.
	44.	The proponent shall ensure that all activities of EMP Condition noted.
		shall be completed before obtaining CTO from All the member units will comply with.
		TNPCB

45.	The proponent shall provide and ensure the green	Condition noted.
	belt plan is implemented as indicated in EMP. Also,	All the member units will comply with.
	the proponent shall explore possibilities to provide	
	sufficient grass lawns.	
Oth	ers	
46.	As per the 'Polluter Pay Principle', the proponent	Condition noted.
	will be held responsible for any environmental	All the member units will comply with.
	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	Condition noted.
	buildings as committed.	All the member units will comply with.

CONDITIONS IMPOSED BY SEAC:

1.	The construction shall comply with Green Building	Condition Noted.
	norms and shall get minimum IGBC Gold rating.	
2.	PP shall submit the commitment letter from the	Water supply letter from TWAD Board is
	local body for supply of fresh water before issue of	enclosed as Annexure-7
	EC.	
3.	STP shall be installed on 10-year BOOT basis, so	Condition noted.
	that the construction and maintenance are combined	All the member units will comply with.
	in one single responsibility.	
4.	The project proponent shall provide entry and exit	Condition noted.
	points for the OSR area, play area as per the norms	All the member units will comply with.
	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.	

5.	Project proponent is advised to explore the	Condition noted.
	possibility and getting the cement in a closed	All the member units will comply with.
	container rather through the plastic bag to prevent	
	dust emissions at the time of loading/unloading.	
6.	Project proponent should ensure that there will be	Condition noted.
	no use of "Single use of Plastic" (SUP)	All the member units will comply with.
7.	The proponent should provide the sufficient	Condition noted.
	electric vehicle charging points as per the	All the member units will comply with.
	requirements at ground level and allocate the safe	
	and suitable place in the premises for the same.	
8.	The project proponent should develop green belt	Condition noted.
	in the township as per the plan submitted and also	All the member units will comply with.
	follow the guidelines of CPCB/Development	
	authority for green belt as per the norms.	
9.	Project proponent should invest the CSR amount	Condition noted.
	as per the proposal and submit the compliance	All the member units will comply with.
	report regularly to the concerned	
	authority/Directorate of environment.	
10.	Proponent should submit the certified	Condition noted.
	compliance report of previous/present EC along	All the member units will comply with.
	with action taken report to the Regional office	
	MoEF Lko/Director of Environment and other	
	concerning authority regularly.	
11.	Proponent shall provide the dual pipeline network	Condition noted.
	in the project for utilization of treated water of STP	All the member units will comply with.
	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.	
12.	The project proponent shall provide a measuring	Condition noted.
	device for monitoring the various sources of water	All the member units will comply with.
13.	The proponent should provide the MoU with STPs'	Condition noted.
	owner/concerned department for getting the STPs	All the member units will comply with.
1		
	treated water for construction use.	

1. STATUTORY COMPLIANCE:

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. 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 lightning etc. 3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-
including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws. 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 lightning etc. 3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act,
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1986 in case of the diversion of forest land for non-
1700, in case of the diversion of forest fand for hon
forest purpose involved in the project.
4. The project proponent shall obtain clearance from the Condition noted.
National Board for Wildlife, if applicable.
5. The project proponent shall obtain Consent to Condition will be complied.
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.
6. The project proponent shall obtain the necessary Letter for fresh water has been obtain
permission for drawing of ground water /surface from TWAD Board copy is it is enclosed
water required for the project from the competent Annexure 7.
authority.
7. A certificate of adequacy of available power from the Condition noted.
agency supplying power to the project along with the All the member units will comply with.
load allowed for the project should be obtained
8. All other statutory clearances such as the approvals Condition noted.
for storage of diesel from Chief Controller of All the member units will comply with.
Explosives, Fire Department and Civil Aviation
Department shall be obtained, as applicable, by project
proponents from the respective competent authorities.

9. The provisions of the Solid Waste (Management)
Rules, 2016, E-Waste (Management) Rules, 2016. and the Plastics Waste (Management) Rules, 2016 shall and guidelines.
10. The project proponent shall follow the ECBC/ECBC- Condition noted. All the member units R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

1. Air quality monitoring and preservation:

1.	Notification GSR 94(E) dated 25.01.2018 of	Condition noted. All the member units
	MoEF&CC regarding Mandatory Implementation of	will be instructed to follow applicable rules
	Dust Mitigation Measures for Construction and	and guidelines.
	Demolition Activities for projects requiring	
	Environmental Clearance shall be complied with.	
2.	A management plan shall be drawn up and	Condition noted.
	implemented to contain the current exceedance in	
	ambient air quality at the site.	r
3.	The project proponent shall install a system to carry	Condition noted.
	out Ambient Air Quality monitoring for	Ambient Air Quality monitoring report is
	common/criterion parameters relevant to the main	enclosed as Annexure 6.
	pollutants released (e.g., PM10 andPM25) covering	
	upwind and downwind directions during the	
	construction period.	
4.	Construction site shall be adequately barricaded before	Condition noted.
	the construction begins. Dust. Smoke & other air	All the member units will comply with.
	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.	

5.	Sand, murram, loose soil, cement, stored on site should	Condition noted.
	be covered adequately so as to prevent dust	All the member units will comply with.
	pollution.	
6.	Wet jet shall be provided for grinding and stone	Condition noted.
	cutting.	All the member units will comply with.
7.	Unpaved surfaces and loose soil should be adequately	Condition noted.
	sprinkled with water to suppress dust.	All the member units will comply with.
8.	All construction and demolition debris shall be stored	Condition noted.
	at the site (and not dumped on the roads or open	All the member units will comply with.
	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 Rules 2016.	
9.	The diesel generator sets to be used during	Condition noted. All the member units will
	construction phase shall be low Sulphur diesel type	be instructed to follow applicable rules and
	and shall conform to Environmental (Protection)	guidelines.
	prescribed for air and noise mission standards.	
10.	The gaseous emissions from DG set shall be dispersed	Condition noted. All the member units will
	through adequate stack height as per CPCB standards.	be instructed to follow applicable rules and
	Acoustic enclosure shall be provided to the DG sets	guidelines.
	to mitigate the noise pollution. The location of the	
	DG set and exhaust pipe height shall be as per the	
	provisions of the Central Pollution Control Board	
	(CPCB) norms.	
11.	For indoor air quality the ventilation provisions as pe	Condition noted. All the member units will
	National Building Code of India	be instructed to follow applicable rules and
	-	guidelines

2. Water Quality Monitoring and Preservation:

1.	The natural drain system should be maintained for	Condition noted.
	ensuring unrestricted flow of water. No construction	All the member units will comply with.
	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	
	rainwater.	
2.	Buildings shall be designed to follow the natural	Condition noted.
	topography as much as possible. Minimum cutting	All the member units will comply with.
	and filling should be done.	
3.	Total freshwater use shall not exceed the propose	Condition noted.
	requirement as provided in the project details.	All the member units will comply with.
4.	The quantity of freshwater usage, water recycling and	Condition noted.
	rainwater harvesting shall be measured and recorded	All the member units will comply with.
	to monitor the water balance as projected by the	
	project proponent. The record shall be submitted to	
	the Regional Office, MoEF&CC along with Half	
	Yearly Compliance Reports (HYCR).	
5.	A certificate shall be obtained from the local body	Letter for fresh water has been obtained
	supplying water, specifying the total annual water	from TWAD Board copy is it is enclosed
	availability with the local authority, the quantity of	as Annexure 7.
	water already committed, the quantity of water	as Ameraire 7.
	allotted to the project under consideration and the	
	balance water available. This should be specified	
	separately for ground water and surface water sources,	
	ensuring that there is no impact on other users.	
6.	At least 20% of the open spaces as required by the	Condition noted . All the member units will
	local building byelaws shall be pervious. Use of Grass	be instructed to follow applicable rules and
	pavers, paver blocks with at least 50% opening,	guidelines.
	landscape etc. would be considered as pervious surface	

7.	Installation of dual pipe plumbing for supplying fresh	Condition noted. All the member units
	water for drinking, cooking and bathing etc. and other	shall comply with.
	for supply of recycled water for flushing, landscape	
	irrigation car washing, thermal cooling, conditioning	
	etc, shall be done.	
8.	Use of water saving devices/ fixtures (viz. low flow	Condition noted. All the member units
	flushing systems; use of low flow faucets tap aerators	shall comply with.
	etc) for water conservation shall be incorporated in	
	the building plan	
9.	Use of water saving devices/ fixtures (viz, low flow	Condition noted. All the member units
	flushing systems; use of low flow faucets tap aerators	shall comply with.
	etc.) for water conservation shall be incorporated in	
	the building plan.	
10.	Water demand during construction should be reduced	Condition noted. All the member units
	by use of pre-mixed concrete, curing agents and other	shall comply with.
	best practices referred.	
11.	The local bye-law provisions on rainwater harvesting	Condition noted. All the member units
	should be followed. If local byelaw provision is not	will be instructed to follow applicable rules
	available, adequate provision for storage and recharge	and guidelines.
	should be followed as per the Ministry of Urban	
	Development Model Building Byelaws, 201	
	Rainwater harvesting recharge pits/storage tanks shall	
	be provided for ground water recharging as per the	
	CGWB norms.	
12.	A rainwater harvesting plan needs to be designed	EC Amendment Application submitted to
	where the recharge bores of minimum one recharge	SEIAA.
	bore per 5,000 square meters of built-up area and	
	storage capacity of minimum one day of total	
	freshwater requirement shall be provided. In area	
	where ground water recharging is not feasible, the	
	rainwater should be harvested and stored for reuse.	
	The ground water shall not be withdrawn without	
	approval from the Competent Authority.	

13.	All recharges should be limited to shallow aquifer	Condition noted. All the member units
		shall comply with.
14.	No ground water shall be used during construction	Condition noted.
	phase of the project	
15.	Any ground water dewatering should be properly	Condition noted.
	guidelines of the CGWA in the matter. Formal	Fresh water will be sourced from TWAD. Water supply letter from TWAD Board is enclosed as Annexure 7
16.	The quantity of freshwater usage, water recycling and	Condition noted. Industrial Park is in
	rainwater harvesting shall be measured and recorded	Construction Phase.
	to monitor the water balance as projected by the	
	project proponent. The record shall be submitted to	
	the Regional Office, MoEF&CC along with Half	
	Yearly Compliance Reports (HYCR).	
17.	Sewage shall be treated in the STP with tertiary	Condition noted. All the member units
	treatment. The treated effluent from STP shall be	shall comply with.
	recycled/re-used for flushing. AC make up water and	
	gardening. As proposed, not related water shall be	
	disposed into municipal drain.	
18.	No sewage or untreated effluent water would be	Condition noted. All member units will
	discharged through storm water drains.	comply with.
19.	Onsite sewage treatment of capacity of treating 100%	Condition noted. All member units will
	wastewater to be installed. The installation of the	comply with.
	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 wastewater 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.	

20.	Periodical monitoring of water quality of treated	Condition noted. All member units will
	sewage shall be conducted. Necessary measures	comply with.
	should be taken to mitigate the odor problem from	
	STP.	
21.	Sludge from the onsite sewage treatment, including	Condition noted. All the member units
	septic tanks, shall be collected. Conveyed and	will be instructed to follow applicable rules
	disposed as per the Ministry of Urban Development,	and guidelines.
	Centre Public Health and Environmental Engineering	
	Organization (CPHEEO) Manual on Sewerage and	
	Sewage Treatment Systems, 2013.	

3. Noise Monitoring and Prevention:

<u>J. 110</u>	Noise Monitoring and Prevention:			
1.	Ambient noise levels shall conform to residential	Condition noted.		
	area/commercial area/industrial area/silence zone	Ambient noise monitoring report is enclosed		
	both during day and night as per Noise Pollution	as Annexure 6.		
	(Control and Regulation) Rules, 2000, Incremental			
	pollution loads on the ambient air and noise quality			
	shall be closely monitored during construction phase.			
	Adequate measure shall be made to reduce ambient			
	air and noise level during construction phase, so as to			
	conform to the stipulated standards by CPCB/SPCB.			
2.	Noise level survey shall be carried out as per the	Condition noted.		
	prescribed guidelines and report in this regard shall	Ambient noise monitoring report is enclosed		
	be submitted to Regional Officer of the Ministry as a	as Annexure 6.		
	part of Half Yearly Compliance Report (HYCR).			
3	Acoustic enclosures for DG sets, noise barriers for	Condition noted.		
	ground-run bays, car plugs for operating personnel	All member units will comply with.		
	shall be implemented as mitigation measures for			
	noise impact due to ground sources.			

4. Energy Conservation Measures:

1		C 197 4 1 A11 4 1 2 21
1.	Compliance with the Energy Conservation Building	Condition noted. All the member units will
	Code (ECBC) of Bureau of Energy Efficiency shall	be instructed to follow applicable rules and
	be ensured. Buildings in the States which have	guidelines.
	notified their own ECBC, shall comply with the State	
	ECBC.	
2.	Outdoor and common area lighting shall be LED.	Condition noted. All member units will
		comply with.
3.	The proponent shall provide solar panels covering a	Condition Noted.
	minimum of 50% of terrace area as committed.	
4.	Concept of passive solar design that minimize energy	Condition noted. All member units will
	consumption in buildings by using design elements,	comply with.
	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.	Energy conservation measures like installation of	Condition noted. All member units will
	CFLs/LED for the lighting the area outside the	comply with.
	building should be integral part of the project design	
	and should be in place before project commissioning.	
6.	Solar, wind or other Renewable Energy shall be	Condition Noted.
	installed to meet electricity generation equivalent to	
	1% of the demand load or as per the state level/ local	
	building byelaws requirement, whichever is higher.	
7.	Solar power shall be used for lighting in the apartment	Condition Noted.
	to reduce the power load on grid. Separate electric	
	meter shall be installed for solar power. Solar water	
	heating shall be provided to meet 20% of the hot	
	water demand of the commercial and institutional	
	building or as per the requirement of the local	
	building byelaws, whichever is higher. Residential	
	buildings are also recommended to meet its hot water	
	demand from solar water heaters, as far as possible.	
	·	

5. Waste Management:

1.	A certificate from the competent authority handling	Condition noted.
	municipal solid wastes, indicating the existing civic	All member units will comply with.
	capacities of handling and their adequacy to cater to	
	the M.S.W. generated from project shall be obtained.	
2.	Disposal of muck during construction phase shall not	Condition noted. All member units will
	create any adverse effect on the neighboring	comply with.
	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.	
3.	Separate wet and dry bins must be provided in each	Condition noted. All member units will
	unit and at the ground level for facilitating	comply with.
	segregation of waste. Solid waste shall be segregated	
	into wet garbage and inert materials.	
4.	Organic waste compost/ Vermiculture pit/Organic	Condition Noted.
	Waste Converter within the premises with a	
	minimum capacity of 0.3 kg /person/day must be	
	installed.	
5.	All non-biodegradable waste shall be handed over to	Condition noted. All member units will
	authorized recyclers for which a written tie up must	comply with.
	be done with the authorized recyclers.	
6.	Any hazardous waste generated during construction	Condition noted. All the member units will
	phase shall be disposed of as per applicable rules and	be instructed to follow applicable rules and
	norms with necessary approvals of the State	guidelines.
	Pollution Control Board.	
7.	Use of environmentally friendly materials in bricks,	Condition Noted.
	blocks and other construction materials, shall be	
	required for at least 20% of the construction material	
	quantity. These include Fly Ash bricks, hollow bricks,	
	AACs, Fly Ash Lime Gypsum blocks, Compressed	
	earth blocks, and other environmentally friendly	
	materials.	

8. Fly ash should be used as building material in the condition construction as per the provision of Fly Ash be instructed by Notification of September 1999 and amended from guideling time to time. Ready mixed concrete must be used in building construction.

9. Any wastes from construction and demolition Condition

Condition noted. All the member units will be instructed to follow applicable rules and guidelines.

9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.

Condition noted. All the member units will be instructed to follow applicable rules and guidelines.

10. 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.

Condition noted. All the member units shall comply with.

6. Green Cover:

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).
 A minimum of 1 tree for every 80 sqm of land should

Condition noted. All the member units shall comply with.

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, brud leaves and wide canopy cover are desirable Water intensive and invasive species should not be wed for landscaping.

Condition noted.

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.

Condition noted.

4.	Topsoil should be stripped to a depth of 20 cm from	Condition noted. All the member units
	the areas proposed for buildings, roads, paved areas,	shall comply with.
	and external services. It should be stockpiled	
	appropriately in designated areas and reapplied during	
	plantation of the proposed vegetation on site.	
5.	A wide range of indigenous plant species should be	Condition Noted.
	planted as given in the Appendix-1, in consultation	
	with the Government Forest/Horticulture Departments	
	and State Agriculture University.	

7. Transport:

1.	A comprehensive mobility plan, as per MoUD best	Condition will be complied.
	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.	
2.	Vehicles hired to bring construction material to the	Condition noted . All the member units shall
	site should be in good condition and should have a	comply with.
	pollution check certificate and should conform to	
	applicable air and noise emission standards be	
	operated only during non-peak hours.	

3. detailed traffic management traffic Α and 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 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 implementation of components of the plan which involve the participation of these departments.

Condition noted. All the member units shall comply with.

8. Human Health Issues:

1.	All workers working at the construction site and	Condition noted. All the member units shall
	involved in loading, unloading, carriage of	comply with.
	construction material and construction debris or	
	working in any area with dust pollution shall be	
	provided with dust mask.	
2.	For indoor air quality the ventilation provisions as	Condition noted. All the member units shall
	per National Building Code of India.	comply with.
3.	Emergency preparedness plan based on the Hazard	Condition noted. All the member units shall
	identification and Risk Assessment (HIRA) and	comply with.
	Disaster Management Plan shall be implemented.	
4.	Provision shall be made for the housing of	Condition noted. All the member units shall
	construction labour within the site with all necessary	comply with.
	infrastructure and facilities such as fue 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.	
		26

5.	Occupational health surveillance of the workers shall	Condition Noted . All the member units
	be done on a regular basis.	shall comply with.
6.	A First Aid Room shall be provided in the project	Condition will be complied. Member units
	both during construction and operations of the	shall comply with.
	project.	

9. Corporate Environment Responsibility:

1.	The PP shall complete the CER activities, as	Condition noted.
	committed, before obtaining CTE.	
2.	The company shall have a well laid down	Condition noted.
	environmental policy duly approved by the Board of	
	Directors. The environmental policy should	
	prescribe 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 Half Yearly Compliance	
	Report (HYCR).	
`3.	A separate Environmental Cell both at the project	Condition complied.
	and company head quarter level, with qualified	Separate environmental management cell has
	personnel shall be set up under the control of senior	been assigned and will report to the General
	Executive, who will directly to the head of the	Manager, SIPCOT who will report directly to
	organization.	the Head of the Organization for
		implementation monitoring and compliance
		of the environmental safeguards. Details of
		Environmental Management Cell with Roles
		and Responsibilities are enclosed as
		Annexure-9.

EMP 4. Action plan for implementing 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 Half Yearly Compliance Report (HYCR).

Condition noted.

10. Miscellaneous:

Newspaper advertisement copy is enclosed 1. The project proponent shall prominently advertise it at least in two local newspapers of the District or as Annexure-5. State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MOEFCC/SEIAA website where it is displayed. 2. The copies of the environmental clearance shall be Fresh water will be sourced from TWAD. Water supply letter from TWAD Board is submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in enclosed as Annexure - 7 addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt. 3. The project proponent shall upload the status of Condition is being complied. Screenshot of compliance of the stipulated environment clearance compliance report uploaded in website is conditions, including results of monitored data on enclosed as Annexure -3. their website and update the same on half-yearly basis.

4.	The project proponent shall submit Half Yearly	Condition being complied.
	Compliance Reports (HYCR) 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.	
5.	The project proponent shall submit the	Condition is being Complied.
	environmental statement for each financial year in	Proof of dispatch of Form V to TNPCB and
	Form-V to the concerned State Pollution Control	the screenshot of uploading the
	Board as prescribed under the Environment	environmental statement in SIPCOT website
	(Protection) Rules, 1986, as amended subsequently	is enclosed as Annexure – 4
	and put on the website of the company.	
6.	The project proponent shall inform the Authority	Condition Noted.
	(SEIAA) of 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.	
7.	The project authorities must strictly adhere to the	Condition Noted. All the member units
	stipulations made by the State Pollution Control	will be instructed to follow applicable rules
	Beard and the State Government.	and guidelines.
8.	The project proponent shall abide by all the	Condition noted.
	commitments and recommendations made in the	
	EIA/EMP report and also during their presentation	
	to the State Expert Appraisal Committee.	
9.	No further expansion or modifications to the plant	Condition noted . All the member units shall
	shall be carried out without prior approval of the	comply with.
	Authority (SEIAA).	
10.	Concealing factual data or submission of	Condition noted . All the member units shall
	false/fabricated data may result in revocation of this	comply with.
	environmental clearance and attract action under the	
	provisions of Environment (Protection) Act, 1986.	

11.	The Authority (SEIAA) may revoke or suspend the	Condition noted.
	clearance, if implementation of any of the above	
	conditions is not satisfactory.	
12.	The Authority reserves the right to stipulate	Condition noted.
	additional conditions if found necessary. The	
	Company in a time-bound manner shall implement	
	these conditions.	
13.	The Regional Office of the MoEF&CC 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.	The above conditions shall be enforced, inter-alia	Condition noted. All the member units shall
	under the provisions of the Water (Prevention &	comply with.
	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.	

STANDARD CONDITIONS

$\mbox{\bf Part}$ - $\mbox{\bf A}$ - Common conditions applicable for Pre-construction, Construction and Operational Phases:

1.	Any appeal against this Environmental Clearance shall	No appeal lies against this Environmental
	lie with the Hon'ble National Green Tribunal, if	Clearance
	preferred, within a period of 30 days as prescribed under	
	Section 16 of the National Green Tribunal Act, 2010.	

2.	The construction of STP, ETP, Solid Waste	Condition Noted. Construction will be
	Management facility, E-waste management facility, IX	carried out as per the layout approval.
	sets, etc. should be made in the earmarked area only. In	
	any case, the location of these utilities should not be	
	changed later on.	
3.	The Environmental safeguards contained in the	SIPCOT shall comply with all the
	application of the proponent (mentioned during the	applicable conditions issued in the EC
	presentation before the State Level Environment Impact	
	Assessment Authority/State Level Expert Appraisal	
	Committee should be implemented in the letter and	
	spirit.	
4.	All other statutory clearances such as the approvals for	Condition noted. All the member units
	storage of diesel from Chief Controller of Explosives,	will be instructed to obtain all necessary
	Fire and Rescue Services Department, Civil Aviation	statutory clearances and approvals.
	Department, Forest Conservation Act, 1980 and Wild	
	Life (Protection) Act, 1972, State Central Ground Water	
	Authority, Coastal Regulatory Zone Authority, other	
	statutory and other authorities as applicable to the	
	project shall be obtained by project proponent from the	
	concerned competent authorities.	
5.	The SEIAA reserves the right to add additional	Condition noted.
	safeguard measures subsequently, if non-compliance of	
	any of the EC conditions is found and to take action,	
	including revoking of this Environmental Clearance as	
	the case may be.	
6.	A proper record showing compliance of all the	Condition is being complied.
	conditions of Environmental Clearance shall be	
	maintained and made available at all the times.	
7.	The environmental statement for each financial year	Condition is being complied. Proof of
	ending 31st March in Form-V as is mandated to be	dispatch of Form V to TNPCB and the
	submitted by the project proponent to the concerned	screenshot of uploading the environmental
		statement in SIPCOT website is enclosed as
		Annexure –4 respectively

Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.	
company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and	
clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and	
Regional Office of the Ministry of Environment and	
Forests, Chennai by e-mail.	
8. The Regional Office of the Ministry located at Chennai Condition will be complied.	
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.	
9. "Consent for Establishment shall be obtained from the Condition will be complied.	
Tamil Nadu Pollution Control Board and a copy shall	
be submitted to the SEIAA, CTE obtained from TNPCB	
and the copy to Tamil Nadu.	
10. In the case of any change(s) in the scope of the project, Condition Noted.	
a fresh appraisal by the SEAC/SEIAA shall be obtained	
before implementation.	
11. The conditions will be enforced inter-alia, under the Condition noted. All the member u	nits
provisions of the Water (Prevention & Control of will be instructed to follow applicable	le rules
Pollution) Act, 1974, the Air (Prevention & Control of and guidelines.	
Pollution) Act, 1981, the environment (Protection) Act,	
1986, the Public Liability Insurance Act, 1991, along	
with their amendments, draft Minor Mineral	
Conservation & Development Rules, 2010 framed	
under MMDR Act 1957, National Commission for	
protection of Child Right Rules 2006 and rules made	
there under and also any other orders passed by the	
12. The Environmental Clearance shall not be cited for Condition Noted.	
relaxing the other applicable rules to this project.	

above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act 1986. 14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of MoEF, Chennai, the respective Zonal Office of CPCH. Bengaluru and the TNPCB. The criteria pollutant levels namely: PM, PM, SO, NO, (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored. 15. The SEIAA, TN may cancel the Environmental Clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA TN that the project proponent has deliberately concealed and or submitted false or misleading information or inadequate data for obtaining the Environmental Clearance 16. The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance. 17. The SEIAA. TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent	13.	Failure to comply with any of the conditions mentioned	Condition Noted.
(Protection) Act 1986. 14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCH. Bengaluru and the TNPCB. The criteria pollutant levels namely: PM, PM, SO, NO, (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored. 15. The SEIAA, TN may cancel the Environmental Clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA TN that the project proponent has deliberately concealed and or submitted false or misleading information or inadequate data for obtaining the Environmental Clearance 16. The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance. 17. The SEIAA. TN may alter/modify the above conditions or stipulate any further condition in the interest of		above may result in withdrawal of this clearance and	
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or stipulate any further condition in the interest of		Environmental Clearance.	
	17.	The SEIAA. TN may alter/modify the above conditions	Condition noted.
environment protection, even during the subsequent		or stipulate any further condition in the interest of	
5 · · · · · · · · · · · · · · · · · · ·		environment protection, even during the subsequent	
period.		period.	

18.	The Environmental Clearance does not absolve the	Condition noted.
	applicant/proponent of his obligation/requirement to	
	obtain other statutory and administrative clearances	
	from other statutory and administrative authorities.	
19.	Where the trees need to be cut, compensation plantation	Condition noted.
	in the ratio of 1:10 (i.e. planting of 10 trees for every	
	one tree that is cut) should be done with the obligation	
	to continue maintenance.	
20.	A separate environmental management cell with	Condition complied.
	suitable qualified personnel should be set-up under the	Separate environmental management cell
	control of a Senior Executive who will report directly	has been assigned and will report to the
	to the Head of the Organization and the shortfall shall	General Manager, SIPCOT who will
	be strictly reviewed and addressed.	report directly to the Head of the
		Organization for implementation
		environmental safeguards.
		Details of Environmental Management
		Cell with Roles and Responsibilities are
		enclosed as Annexure-9 .
21.	The EMP cost shall be deposited in a nationalized bank	Condition noted.
	by opening separate account and the head wise	
	expenses statement shall be submitted to TNPCB with	
	a copy to SEIAA annually.	
22.	The Project Proponent has to provide adequate rain	Condition noted.
	water harvesting pits as committed to recover and reuse	
	the rain water during normal rains as reported.	
23.	The project activity should not cause any disturbance &	Condition noted.
	deterioration of the local bio diversity.	
24.	The project activity should not impact the water bodies.	Condition will be complied.
	A detailed inventory of the water bodies and forest	Surface water quality monitoring report is
	should be evaluated and fact reported to the Forest	enclosed as Annexure -6.
	Department & PWD for monitoring.	

25.	All the assessed flora & fauna should be conserved and	Condition will be complied.
	protected.	
26.	The proponent should strictly comply with, Tamil Nadu	Condition Noted All the member units
	Government Order (Ms) No.84 Environment and forests	will be instructed to follow all applicable
	(EC.2) Department dated 25.06.2018 regarding ban on	rules and guidelines.
	one time use and throwaway plastics irrespective of	
	thickness with effect from 01.01.2019 under	
	Environment (Protection) Act, 1986.	
27.	Necessary permission shall be obtained from the	Condition noted. Water supply letter from
	competent authority for the drawl/ outsourcing of fresh	TWAD Board is enclosed as Annexure
	water before obtaining consent from TNPCB.	7.
28.	The proponent shall appoint an Environmental Engineer	Condition noted. All the member units
	with necessary qualification for the operation and	shall comply with.
	maintenance of STP (Sewage Treatment Plant) and	
	GWTP (grey water Treatment Plant)	
29.	The Proponent shall provide the dispenser for the	Condition noted. All the member units
	disposal of Sanitary Napkins.	shall comply with.
30.	All the mitigation measures committed by the	Condition noted. All the member units
	proponent for the flood management, Solid waste	shall comply with.
	disposal, Sewage treatment & disposal etc., shall be	
	followed strictly.	
31.	No waste of any type to be disposed of in any	Condition noted. All the member units
	watercourse including drains, canals and the surrounding	shall comply with.
	environment.	
32.	Traffic congestion near the entry and exit points from	Condition noted. All the member units
	the roads adjoining the proposed project site must be	shall comply with.
	avoided.	
33.	The safety measures proposed in the report should be	Condition noted. All the member units
	strictly followed.	shall comply with.

Part-B-Specific Conditions - Pre construction phase:

1		Name and the state of the state
1.	The project authorities should advertise with	
	basic details at least in two local newspapers	Annexure-5.
	widely circulated, one of which shall be in the	
	vernacular language of the locality concerned,	
	within 7 days of the issue of clearance. The press	
	releases also mention that a copy of the clearance	
	letter is available with the State Pollution Control	
	Board and also at website of SEIAA, TN. The	
	copy of the press release should be forwarded to	
	the Regional Office of the Ministry of	
	Environment and Forests located at Chennai and	
	SEIAA-TN.	
2.	In the case of any change(s) in the scope of the	Condition noted.
	project, a fresh appraisal by the SEAC/SEIAA	
	shall be obtained before implementation.	
3.	A copy of the clearance letter shall be sent by	Condition being complied.
	the proponent to the Local Body. The clearance	Clearance letter uploaded in our website and the
	letter shall also be put on the website of the	screenshot of Environmental Clearance uploaded
	Proponent.	in our website is attached as Annexure 3.
4.	The approval of the competent authority shall be	Condition will be complied. All the member
	obtained for structural safety of the buildings	units will be instructed to obtain all necessary
	during earthquake, adequacy of f fighting	statutory clearances and approvals.
	equipments, etc. as per National Building Code	
	including protection measures from lightning etc.	
	before commencement of the work.	
5.	All required sanitary and hygienic measures for	Condition noted.
	the workers should be in place before starting	All the member units shall comply with.
	construction activities and they have to be	
	maintained throughout the construction phase.	
6.	Design of buildings should be in conformity with	Condition noted. All the member units will be
	the Seismic Zone Classifications.	instructed to obtain all necessary statutory
		clearances and approvals.

7.	The Construction of the structures should be	Construction will be carried out as per the layout
	undertaken as per the plans approved by the	approval.
	concerned local authorities/local administration.	
8.	No construction activity of any kind shall be	Condition noted.
	taken up in the OSR area.	
9.	Consent of the local body concerned should be	Condition Noted.
	obtained for using the treated sewage in the OSR	
	area for gardening purpose. The quality of	
	treated sewage shall satisfy the bathing quality	
	prescribed by the CPCB.	
10.	The height and coverage of the constructions	Condition is not applicable.
	shall be in accordance with the existing FSI/FAR	Site does not fall in CDZ area
	norms as per Coastal Regulation Zone	Site does not fall in CRZ area.
	Notification, 2011.	
11.	The Project Proponent shall provide car parking	Condition is not applicable. Proposed project
	exclusively for the visiting guest in the proposed	is an industrial park / SEZ.
	residential apartment as per CMDA norms	
12.	The project proponent shall ensure the entry of	Condition noted.
	basement shall be above maximum flood level.	All the member units will be instructed to follow
		applicable rules and guidelines.
13.	The proponent shall prepare completion plans	Condition applicable will be complied.
	showing Separate pipelines marked with	
	different colours with the following details	
	i. Location of STP, compost system,	
	underground sewer line.	
	ii. Pipe Line conveying the treated effluent for	
	green belt development.	
	iii. Pipe Line conveying the treated effluent for	
	toilet flushing	
	iv. Water supply pipeline	
	v. Gas supply pipe line, if proposed	
	vi. Telephone cable	
	vii. Power cable	

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

Part-C-Specific Conditions - Construction phase:

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

i) All the laborers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site. ii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed. iii) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective	l comply with.
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drawn and followed accordingly. The workers	
shall be provided with personnel protective	
measures such as masks, gloves, boots etc.	
3. Water Supply:	
i) The entire water requirement during construction Condition noted.	
phase may be met from private tankers All the member units shall	l comply with.
ii) Provision shall be made for the housing labour Condition noted.	
within the site with all necessary infrastructures	
and facilities such as fuel for cooking, mobile	
toilets, mobile STP, safe drinking water, medical	
health care, crèche etc. The housing may be in the	
form of temporary structures to be removed after	
the completion of the project.	
iii) Adequate drinking water and sanitary facilities Condition noted.	
should be provided for construction workers at the All the member units shall	
site. The treatment and disposal of waste water	l comply with.

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	shall be through dispersion trench after treatment		
	through septic tank. The MSW generated shall be		
	disposed through Local Body and the identified		
	dumpsite only.		
iv)	Water demand during construction should be	Condition noted.	
	reduced by use of pre-mixed concrete, curing	All the member units shall comply with.	
	agents and other best practices prevalent.		
v)	Fixtures for showers, toilet flushing and drinking	Condition noted.	
	water should be of low flow type by adopting the	All the member units shall comply with.	
	use of aerators/pressure reducing devises/sensor		
	based control.		
4. So	lid Waste Management:		
i)	In the solid waste management plan, the STP	Condition noted.	
	sludge management plan for direct use as manure	All the member units will be instructed to	
	for gardens is not acceptable; it must be co-	follow applicable rules and guidelines	
	composted with biodegradables.		
ii)	Hazardous waste such as batteries, small	Condition noted.	
	electronics, CFL bulbs, expired medicines and	All the member units shall comply with.	
	used cleaning solvent bottles should be segregated		
	at source, collected once in a month from		
	residences and disposed as per the SWM Rules		
	2016.		
iii)	Domestic solid wastes to be regularly collected in	Condition noted.	
	bins or waste handling receptacles and disposed as	All the member units will be instructed to	
	per the solid waste management rules 2016.	follow applicable rules and guidelines.	
iv)	No waste of any type to be disposed of in any	Condition noted.	
	watercourse including drains, Canals and the	All the member units will be instructed to	
	surrounding environment.	comply with.	
v)	E-waste shall be disposed through Authorized	Condition noted. All the member units will	
	vendor as per E-waste (Management and	be instructed to follow applicable rules and	
	Handling) Rules, 2016 and subsequent	guidelines.	
	amendment.		
5.	Top Soil Management:		

i)	All the top soil excavated during construction	Condition noted. All the member units shall
	activities should be stored for use in horticulture/	comply with.
	landscape development within the project site.	
6.	Construction Debris disposal:	
i)	Disposal of construction debris during	Condition will be complied. All the member
	construction phase should not create any adverse	units will be instructed to follow all applicable
	effect on the neighboring communities and be	rules and guidelines.
	disposed off only in approved sites, with the	
	approval of Competent Authority with necessary	
	precautions for general safety and health aspects	
	of the people. The construction and demolition	
	waste shall be managed as per Construction &	
	Demolition Waste Management Rules, 2016.	
ii)	Construction spoils, including bituminous	Condition will be complied.
	materials and other hazardous materials, must not	All the member units will be instructed to
	be allowed to contaminate watercourses. The	comply with.
	dump sites for such materials must be secured so	
	that they should not leach into the adjacent	
	land/lake/stream etc.	
7.	Diesel Generator sets:	
i)	Low Sulphur Diesel shall be used for operating	Condition noted. All the member units will be
	diesel generator sets to be used during construction	instructed to follow applicable rules and
	phase. The air and noise emission shall conform to	guidelines.
	the standards prescribed in the Rules under the	
	Environment (Protection) Act 1986, and the Rules	
	framed thereon.	
ii)	The diesel required for operating stand by DG sets	Condition noted. All the member units shall
	shall be stored in barrels fulfilling the safety norms	be instructed to obtain necessary approvals.
	and if required, clearance from Chief Controller of	
	Explosives shall be taken.	
iii)	The acoustic enclosures shall be installed at all	Condition noted.
	noise generating equipments such as DG sets, air	All the member units shall comply with.
	11.0	
	conditioning systems, cooling water tower etc.	

i)	Vehicles hired for bringing construction materials	Condition noted.
	to the site should be in good condition and should	All the member units shall comply with.
	conform to air and noise emission standards,	
	prescribed by TNPCB/CPCB. The vehicles should	
	be operated only during non-peak hours.	
ii)	Ambient air and noise levels should conform to	Condition being complied.
	residential standards prescribed by the TNPCB,	Ambient Air and Noise monitoring report is
	both during day and night. Incremental pollution	enclosed as Annexure – 6.
	loads on the ambient air and noise quality should	All the member units will be instructed to
	be closely monitored during the construction	follow applicable rules and guidelines.
	phase. The pollution abatement measures shall be	
	strictly implemented.	
iii)	Traffic congestion near the entry and exit points	Condition will be complied.
	from the roads adjoining the proposed project site	
	shall be avoided. Parking shall be fully	
	internalized and no public space should be	
	utilized. Parking plan to be as per CMDA norms.	
	The traffic department shall be consulted and any	
	cost effective traffic regulative facility shall be met	
	before commissioning.	
iv)	The buildings should have adequate distance	All the member units shall comply with.
	between them to allow free movement of fresh air	
	and passage of natural light, air and ventilation	
v)	The project proponent should ensure that adequate	Condition noted.
	Air Pollution Control measures shall be provided	All the member units shall comply with.
	from buses and other vehicles, which will be	
	entering the bus terminal. Further, water sprinkling	
	system shall be provided and same shall be used at	
	regular interval to control the dust emission within	
	the project site.	
9. Bu	uilding material:	

i)	Fly-ash blocks should be used as building material	All the member units will be instructed to
	in the construction as per the provision of Fly ash	follow applicable rules and guidelines.
	Notification of September, 1999 and amended as	
	on 27th August, 2003 and Notification No. S.O.	
	2807 (E) dated: 03.11.2009.	
ii)	Ready-mix concrete shall alone be used in building	Condition will be complied.
	construction and necessary cube-tests should be	
	conducted to ascertain their quality.	
iii)	Use of glass shall be reduced up to 40% to reduce	Condition Noted.
	the electricity consumption and load on air	
	conditioning. If necessary, high quality double	
	glass with special reflecting coating shall be used	
	in windows.	
10.	Storm Water Drainage:	
i)	Storm water management around the site and on	Condition noted. All the member units shall
	site shall be established by following the guidelines	comply with.
	laid down by the storm water manual.	
ii)	Storm water management plan shall be obtained	Condition Noted.
	by engaging the services of Anna University/IIT.	
11.	Energy Conservation Measures:	
i)	Roof should meet prescriptive requirement as per	All the member units will be instructed to
	Energy Conservation Building Code by using	
	Lifetgy Conscivation Dunding Code by using	follow applicable rules and guidelines.
	appropriate thermal insulation material, to fulfill	follow applicable rules and guidelines.
		follow applicable rules and guidelines.
ii)	appropriate thermal insulation material, to fulfill	All the member units will be instructed to
ii)	appropriate thermal insulation material, to fulfill the requirement.	All the member units will be instructed to
ii)	appropriate thermal insulation material, to fulfill the requirement. Opaque wall should meet prescribed requirement	All the member units will be instructed to
ii)	appropriate thermal insulation material, to fulfill the requirement. Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which	All the member units will be instructed to
ii)	appropriate thermal insulation material, to fulfill the requirement. Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use	All the member units will be instructed to
ii)	appropriate thermal insulation material, to fulfill the requirement. Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill	All the member units will be instructed to
ŕ	appropriate thermal insulation material, to fulfill the requirement. Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.	All the member units will be instructed to follow applicable rules and guidelines.
ŕ	appropriate thermal insulation material, to fulfill the requirement. Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement. All norms of Energy Conservation Building Code	All the member units will be instructed to follow applicable rules and guidelines. All the member units will be instructed to
ŕ	appropriate thermal insulation material, to fulfill the requirement. Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement. All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as	All the member units will be instructed to follow applicable rules and guidelines. All the member units will be instructed to
	appropriate thermal insulation material, to fulfill the requirement. Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement. All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar	All the member units will be instructed to follow applicable rules and guidelines. All the member units will be instructed to

iv)	Application of solar energy should be incorporated	All the member units will be instructed to
	for illumination of common areas, lighting for	follow applicable rules and guidelines.
	gardens and street lighting. A hybrids system or	
	fully solar system for a portion of the apartments	
	shall be provided.	
v)	A report on the energy conservation measures	Condition Noted.
	conforming to energy conservation norms	
	prescribed by the Bureau of Energy Efficiency	
	shall be prepared incorporating details about	
	building materials & technology; R & U factors	
	etc. and submitted to the SEIAA in three months'	
	time.	
vi)	Energy conservation measures like installation of	Condition will be complied.
	CFLs/TFLs for lighting the areas outside the	All the member units shall comply with.
	building should be integral part of the project	
	design and should be in place before project	
	commissioning.	
12.	Fire Safety:	
i)	Adequate fire protection equipments and rescue	Condition noted . All the member units shall
	arrangements should be made as per the prescribed	comply with.
	standards.	
ii)	Proper and free approach road for fire-fighting	Condition noted. All the member units shall
	vehicles upto the buildings and for rescue	comply with.
	operations in the event of emergency shall be	
	made.	
13.	Green Belt Development:	
i)	The Project Proponent shall plant tree species with	
	large potential for carbon capture in the proposed	comply with.
	green belt area based on the recommendation of	
	the Forest department well before the project is	
		l l
	completed.	Condition will be complied. Greenbelt will be

	with dimension and GPS coordinates for the green	developed as per the Layout Approval.
	belt area all along the boundary of the project site	
	with at least 3 meter wide and the same shall be	
	included in the layout out plan to be submitted for	
	CMDA/DTCP approval.	
iii)	The proponent shall develop the green belt as per	Condition will be complied. Greenbelt will be
	the plan furnished and area earmarked for the	developed as per the Layout Approval.
	greenbelt shall not be alter at any point of time for	
	any other purpose.	
14.	Sewage Treatment Plant:	
i)	The Sewage Treatment Plant (STP) installed	All the member Industries will be mandated to
	should be certified by an independent expert/	provide adequate capacity of STP and the
	reputed Academic institutions for its adequacy and	treated sewage will be reused for their
	a report in this regard should be submitted to the	greenbelt
	SEIAA, TN before the project is commissioned for	
	operation. Explore the less power consuming	
	systems viz baffle reactor, etc., for the treatment of	
	sewage.	
ii)	The Proponent shall install STP as furnished. Any	All the member Industries will be mandated to
	alteration to satisfy the bathing quality shall be	provide adequate capacity of STP and the
	informed to SEIAA-TN	treated sewage will be reused for their greenbelt
iii)	The project proponent shall operate and maintain	All the member Industries will be mandated to
	the Sewage treatment Plant and Effluent treatment	provide adequate capacity of STP and the
	plant effectively to meet out the standards	treated sewage will be reused for their greenbelt
	prescribed by the CPCB.	
iv)	The project proponent shall continuously operate	All the member Industries will be mandated to
	and maintain the Sewage treatment plant and	provide adequate capacity of STP and the
	Effluent treatment plant to achieve the standards	treated sewage will be reused for their greenbelt
	prescribed by the CPCB.	
v)	The project proponent has to ensure the complete	All the member Industries will be mandated to
	recycling of treated Sewage & Effluent water after	provide adequate capacity of STP and ETP to
	achieving the standards prescribed by the CPCB.	treat sewage and effluent. Treated sewage will
		be reused for their greenbelt and treated
		Effluent will be reused for process and utilities
	-	

`vi)	The project proponent has to provide separate	Condition noted.
	Stand by D.G set for the STP/GWTP for the	
	continuous operation of the STP/GWTP in case of	
	power failure.	
15.	Rain Water Harvesting:	
i)	The proponent shall ensure that roof rain water	Condition noted. All the member units shall
	collected from the covered roof of the buildings,	comply with.
	etc shall be harvested so as to ensure the maximum	
	beneficiation of rain water harvesting by	
	constructing adequate sumps so that 100% of the	
	harvested water shall be reused.	
ii)	Rain water harvesting for surface run-off, as per	Condition noted. All the member units shall
	plan submitted should be implemented. Before	comply with.
	recharging the surface run off, pre-treatment with	
	screens, settlers etc, must be done to remove	
	suspended matter, oil and grease, etc.	
iii)	The Project Proponent has to provide adequate	Condition noted. All the member units shall
	rain water harvesting pits as committed to recover	comply with.
	and reuse the rain water during normal rains as	
	reported.	
iv)	The project activity should not cause any	Condition will be complied.
	disturbance & deterioration of the local bio	
	diversity.	
16.	Building Safety:	
	Lightning arrester shall be properly designed and	Condition noted. All the member units shall
	installed at top of the building and where ever is	comply with.
	necessary.	

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

Not Applicable – Since the project is under construction phase.

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 - 6.**

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 6.**

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 - 6.**

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-6**.

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- 6**.

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.

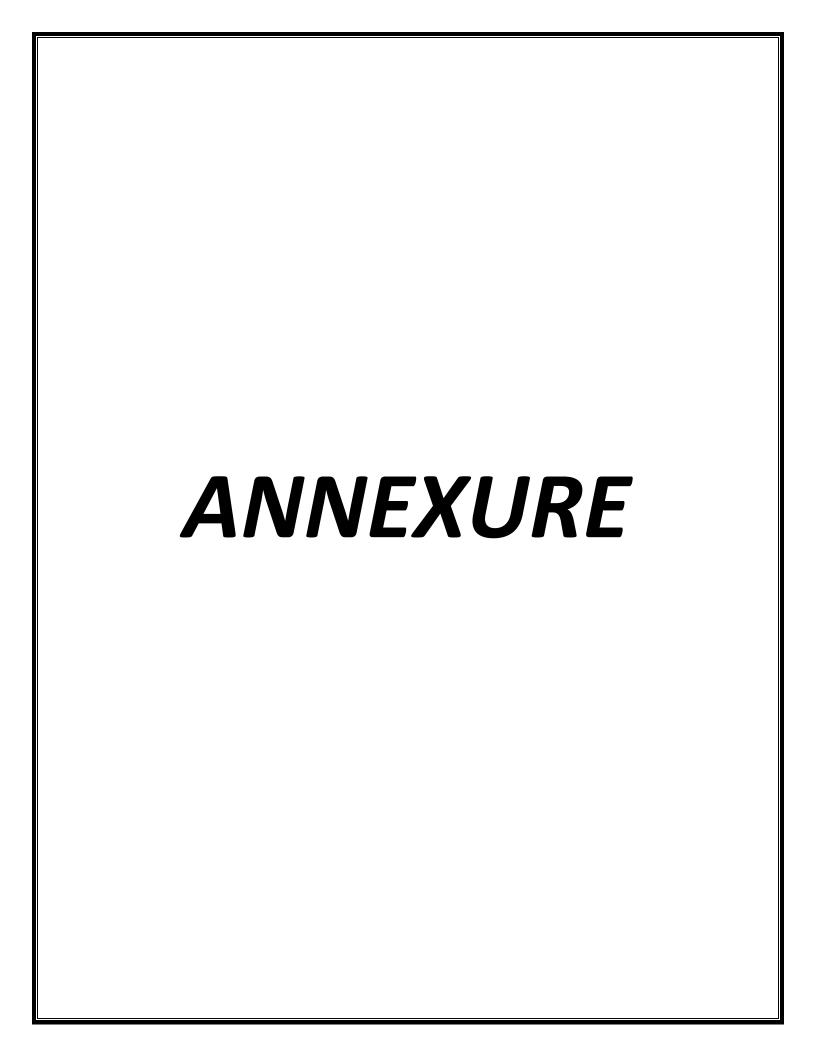
Dr. RAJKUMAR SAMUEL Director Fechalest

Name: Dr. Rajkumar Samuel

Designation: Director Technical

Company Name: Hubert Enviro Care

Systems Private Limited



Pro-Active and Responsive Facilitation by Interactive,

Single-Window Hub

and Virtuous Environmental



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

To,

The Managing Director STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SIPCOT)

19-A, Rukmani Lakshmipathy Road, Egmore, Chennai -600008

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam.

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/TN/INFRA2/451103/2023 dated 14 Dec 2023. The particulars of the environmental clearance granted to the project are as below.

EC24B039TN182418 1. EC Identification No.

2. File No. 9898 3. **Project Type** New 4. Category В

5. Project/Activity including 8(b) Townships and Area Development Schedule No. projects.

6. Name of Project

DEVELOPMENT OF SPECIAL ECONOMIC ZONE (SEZ) AT KALLAKURICHI DISTRICT Land area –

77.09 Ha. (190.42 Acres)

7. Name of Company/Organization STATE INDUSTRIES PROMOTION

CORPORATION OF TAMILNADU

LIMITED (SIPCOT)

8. **Location of Project** TAMIL NADU

9. **TOR Date** N/A

The project details along with terms and conditions are appended herewith from page no 2 onwards.

(e-signed) Thiru. Deepak S. Bilgi Member Secretary Date: 25/01/2024 SEIAA - (TAMIL NAĎU)



Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH.Please quote identification number in all future correspondence.

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THIRU.DEEPAK S.BILGI, I.F.S., MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY-TAMILNADU

3rd Floor, Panagal Maaligai, No.1, Jeenis Road, Saidapet, Chennai-15. Phone No. 044-24359973 Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE Lr.No. SEIAA-TN/F.No.9898/8(b)/EC, No:1001/2023, dated:10.01,2024.

Sir/Madam

Sub: SEIAA, TN - Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District over an extent of 77.095 Ha (190.42 Acres) at Survey No: 213/2, 213/3 & 213/4 of A. Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu by - M/s. State Industries Promotion Corporation of Tamil Nadu Limited(SIPCOT) Under Project Category "B1" and Schedule S.No.8(b) 'Township and Area Development Projects"-Issue of Environmental Clearance - Regarding.

Ref:

- Terms of reference issued by SEIAA-TN vide Lr No. SEIAA -TN/F.No.9898/SEAC/8(b)/ToR-1430/2023 dated:21.04.2023.
- Online Proposal No SIA/TN/INFRA2/451103/2023 dated 02.11.2023.
- EIA report submitted dated:03.11.2023.
- Minutes of the 431st Meeting of SEAC held on 15.12.2023.
- Minutes of the 688th Meeting of SEIAA held on 10.01.2024.

This has reference to your application 2nd & 3nd cited, the Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District over an extent of 77.095 Ha (190.42 Acres) at Survey No: 213/2, 213/3 & 213/4 of A. Sathanur Village, Ulundurpet Taluk, Kallakurichi

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District - under Category B1 and Schedule S.No.8(b) under the Environment Impact Assessment Notification, 2006, as amended.

The Competent Authority and Authorized Signatory furnished the detailed information in Form 1, Form 1A, Conceptual plan and liquidate enclosures are as Annexures.

Annexure 1

S. No	Description	Details					
1.	Name of the Project	"Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District [Land Area - 77.095 Ha. (190.42 Acres)]" by M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT).					
2.	Location	A.Satha Kallaku	Survey No: 213/2, 213/3 & 213/4, A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District and Tamil Nadu state.				
3.	Type of Project	Category – 8(b)					
	Latitude & Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude
		1	11°40′56.63°N	79°14'46.49"E	6	11°40'21.55"N	79°14'30.20"E
		2	11°40'42.03"N	79°15'5.91"E	7	11"40'29.92"N	79°14'19.85"E
4.		3	11°40'40.44"N	79°15'2.48"E	8	11°40'32.25"N	79°14'16.98"E
		4	11°40'25.31"N	79°14'40.52"E	9	11°40'40.19"N	79°14'26.44"E
		5	11°40'19,21"N	79°14'34.38"E	10	11°40′52.37″N	79°14'41.33"E
5.	Total Plot Area (in sq. m)	77.095 Ha (190.42 Acres)					
6.	Brief description of the project	The Environmental Clearance is sought for "Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District [Land Area – 77.095 Ha. (190.42 Acres)]" by M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)					

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Maximum height of the project Maximum number	18.2m (Since the proposed Project is development of SEZ)		
Maximum number			
of floors	SEZ - based on industrial units Industrial Dormitory- 3 Floors		
No. of blocks	SEZ - based on industrial units Industrial Dormitory - 4 towers		
Permissible FSI area			
Proposed FSI area			
Cost of Project	INR. 2302 crores		
No. of Saleable Units	Not applicable. Total developable area is 190.42Acres (77.095 Ha) which includes SEZ plot area, Dormitory, Other Common facilities, Greenbelt, SWM, Road, Storm Water Drain, OSR and such other infrastructure facilities,		
Expected Population	Construction phase - 100 Nos. Operation phase - 23000 Nos (including 100Nos for Dormitory during operation phase)		
a) Water requirement (in KLD)	2373 KLD (Fresh Water -1144.70 KLD and Recycled Water 1228.30 KLD)		
b) Source	Letter from TWAD for the supply of 3.20 MLD Fresh water supply from 10.00 MLD dedicated Water supply scheme to AHRLIVAS site at Thalaivasalkoot Road in Salem District vide Letter no. F.SIPCOT/JDO/RWS/SLM/2023/dated: 10.01.2023		
Details of Sewage generation and Treatment	Total Sewage generation: 1080.4 KLD Treatment Method: Sewage from Industries & Dormitory - Will be treated through CSTP of 1200 KLD and treated sewage used for flushing & green belt development within		
	a) Water requirement (in KLD) b) Source Details of Sewage generation and		

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	generation, Mode of	Waste Schedule	Waste Type	Quantity	Method of Disposa	ıl
22.	Quantity of Biomedical Waste		waste generation	and manageme SEZ)	ent (from Health centre	within
21.	Quantity of E-Waste generation, Mode of treatment and Disposal	Approximate E-waste (used PC, equipment, sensor, controller, etc) generated from the proposed project is ~1.4 Ton/Year. 82.00 Sq.m area will be earmarked for e-waste storage. The same will be disposed through TNPCB Authorized E-waste Vendor by Individual units as per E-waste Management Rules 2016.				
20.	Quantity of Solid Waste generation, Mode of treatment and Disposal	Organic waste	ment & Disposal	segregate the waill be composed authorized recy For Dormitor be composted Convertor and used as mandevelopmentor	ividual industries will vaste and organic waste ted and used as manure d and sold to TNPCB velers/ vendors. y: Organic wastes will in Organic Waste the compost will be nure for green belt rit will be collected and B authorized recyclers/	TPD
		Total Solid Wa	ste Generation		11.123	TPD
19.	Mode of Disposal of treated sewage / effluent	 Treated effluent will be used by individual units for their Process & Utilities Treated sewage will be used for greenbelt & Flushing. 				
18.	Details of greywater / Effluent generation and Treatment	Treatment Method: • Effluent from Industries -Will be treated through CETP (160 KLD) and reused for process, utilities, greenbelt and flushing and ZLD will be maintained. In exceptional case, the water (treated water as per TNPCB norms) will be let out into the Highway storm water drain and nearby water bodies during heavy flood with necessary precautions				

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Yellow	Expired/Discarded Medicines	40 kg/Year	Will be sent back to the supplier for Incineration
Red	Contaminated wastes	300 kg/Year	Will be sent to TNPCB Authorized common Biomedical waste Management Facility for sterilization
White	Waste sharps including metals	30 kg/Year	Will be sent to TNPCB Authorized common Biomedical waste Management Facility for shredding & disposal
Blue	Glassware	15 kg/year	Will be sent to TNPCB Authorized common Biomedical waste Management Facility for disinfection & recycling

	11	The state of the s				
23.	Quantity of Hazardous Waste generation, Mode of treatment and Disposal	Hazardous waste schedule & type	Quantity	Method of Disposal		
		5.1 - Used /Spent Oil	9.5KL/A	Will be sent to TNPCB authorized recyclers/vendors		
		33.1-Empty barrels/ containers/ liners contaminated with hazardous chemicals/wastes	280 Kg/day	Will be sent to TNPCB authorized recyclers/vendors		
		35.3 Chemical Sludge form waste water treatment (TPA)	505Kg/day	Generation, Collection, Storage, Disposal through Authorized TSDF		
		20.2 Spent solvents	468 Kg/day	Will be sent to TNPCB authorized recyclers/vendors		
		33.2 Contaminated cotton rags or other cleaning materials	690 Kg/day	Will be sent to TNPCB authorized recyclers/vendors		
			LV			

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		12.1 Acidic and alkaline residues	138kg/day	Will be sent to TNPCB authorized recyclers/vendors	
24.	Power requirement	20 MVA (Source: TANGEDCO)			
25.	Details of solar energy	SIPCOT may insist the individual industries to commit that their renewable energy will account for no less than 35% of the total energy utilization rate by 2030, and it is expected to be fully operational by 2030. Renewable energy will be a combination of RTS (Rooftop Solar), REC (Renewable Energy Certificate) and DPPA (Direct Power Purchase Agreement), etc., depending on the feasibility study for each solution. The individual industries may utilize Renewable Energy (Solar, DPPA, REC) for illumination of common area like Street lighting, etc., as per the regulatory norms			
26.	Details of D.G. set with Capacity	1x250 kVA DGs will act as p SIPCOT will not propose any	ower back u		
27.	Details of Green Belt Area i) Total area of green belt ii) No. of trees existing within the project site iii) No. of trees proposed to be planted iv) No. of trees to be transplanted / cut	OSR/Greenbelt Area – 25,58 Existing Tree - 48 Nos. Tree cut - 18 Nos. IV. Tree going to be planted - 38		Acres)	
28.	Details of OSR Area	6.05 Ha (14.94 acres)			
29.	Details of Parking	Details	Area	in Sq.m Area in Acres	
- 198	Area	Bike Parking Area (Total 96	200 110	8615 2.13	

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		Bus Parking Area (Total 168)	20340	5.03
		Trucks Parking Area (Total 20)	4205	1.04
30.	Provision for rain water harvesting	Rain water Harvesting pond capacity The capacity of the Rain water storage two sumps are proposed, so the total 2430 KL. Total runoff collected through the collection tanks and rain water harvesting.	ge tank has been cal l capacity of the Ra drain channel wi	culated as 1215 KL and in water storage tank is
31.	EMP Cost (Rs.)	Capital Cost- Rs. 120.668 Crores Recurring cost- Rs. 54 Lakhs/annum		
32.	CER Cost	Rs. 5 crores The PP shall spend the amount as comm Tribal Schools towards (i) Tree plantation, (ii) Library, books, in addition to that the amount shall be spended by plantation, small play area for children of Action plan-Within 12 months from the	pent for Public Heal	th Centre for tree

AFFIDAVIT FURNHSED BY THE PROPONENT

I. Thiru. Dr. K. Senthil Raj, I.A.S., Managing Director, Authorized Signatory, representing M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT) having registered office at 19-A, Rukmani Lakshmipathy Road, Egmore, Chennai – 600008, for proposed "Development of Special Economic Zone (SEZ) at Kallakurichi District over an extent of 77.095 Ha. (190.42 Acres)" at Survey No. 213/2, 213/3 & 213/4 of A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District and Tamil Nadu, hereby take oath and state as under in this affidavit:

- The total water requirement of the park is estimated at 2373 KLD (Fresh water: 1144.70 KLD and Recycled water: 1228.30 KLD). Fresh water requirement for the SEZ is proposed to be sourced from Tamil Nadu Water Supply and Drainage (TWAD) Board.
- Power Supply (20 MVA) will be ensured from Tamil Nadu Generation and Distribution
 Ltd. (TANGEDCO) Facility as a common supply system by SIPCOT to all member

MANDER SECRETARY SELAA-TN industries. Individual industries will have back up DG sets as per their requirement. Further 1x250 kVA DG will act as power back up for common facilities of Dormitory during power failure.

- Storm water drainage system will be provided along the road ensuring proper rain water III. harvesting. All member industries will be instructed to provide rain water harvesting structures as per norms.
- All individual industries will be instructed to have their own Solid waste and Hazardous IV. waste storage facility. Inorganic wastes will be sold to TNPCB authorized recyclers by Individual Industries, For Dormitory, Organic waste will be composted and used as manure for Greenbelt development or it will be collected and sold to TNPCB authorized recyclers/vendors. Inorganic waste will be sold to TNPCB authorized recyclers/local vendors.
- Separate area will be earmarked for E-waste storage. The same will be disposed by V. individual units through TNPCB Authorized recyclers / vendor as per E-waste Management Rules, 2016.
- All member industries will be mandated to dispose the hazardous waste generated within VI. their premises as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- Sewage generated from SEZ / Dormitory will be treated through CSTP and treated VII. sewage will be used for greenbelt development. Effluent from SEZ will be treated through CETP and treated effluent will be used for process, utilities, flushing, etc. and ZLD will be maintained.
- VIII. Overall Greenbelt area of the SEZ would be 25.58 Ha. (i.e. 33.18% of developable area i.e., 77.095 Ha).
- 1X. Tentative EMP cost of the park is INR 120.668 Crores. Details are given below:

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S.No	Project Components	Tentative Capital Cos (INR Crores)
1	Storm Water drains, culverts & rainwater harvesting systems	63.91804
2	CETP with ZLD	5.65
3	Sewerage system and CSTP	19.3
4	Solid and Hazardous waste Management	7.2
5	Green belt development	17
6	Solar lighting in internal road	4
7	DG sets Acoustics and Stack (for dormitory)	3.6
	Total EMP Cost	120.66804 (say 121)

X. As per the MoEF&CC Office Memorandum No. 22-65/2017-IA.III. dated 25:02-2021, SIPCOT will allocate INR 120:668 Crores towards Environment Management Plan (EMP) instead of allocation of funds under Corporate Environment Responsibility (CER). However as per the direction of SEAC, an amount of INR, 5:0 crores will be allocated for CER Activities.

DISCUSSION BY SEIAA AND THE REMARKS: -

The proposal was placed in the 688th Authority meeting held on 10.01.2024. The Authority noted that the subject was appraised in the 431th SEAC meeting held on 15.12.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the conditions stated therein.

After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC & normal conditions and conditions in Annexure 'C' of this minutes in addition to the following conditions:

 The PP shall obtain fresh water supply commitment letter from the Competent authority before obtaining CTE from TNPCB.

Annexure 'C'

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Climate Change

- The proponent shall adopt strategies to decarbonize the building.
- The proponent shall adopt strategies to reduce emissions during operation (operational phase and building materials).
- The proponent shall adopt strategies to reduce temperature including the Building Façade.
- The proponent shall adopt methodology to control thermal environment and other shocks in the building.
- The proponent shall adopt detailed plan to reduce carbon footprints and also develop strategies for climate proofing and climate mitigation.
- The proponent shall adopt strategies to ensure the buildings in blocks are not trapping heat to become local urban heat islands.
- The proponent shall ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues.
- The activities should in no way cause 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.
- The proponent shall ensure that the buildings should not cause any damage to water environment, air quality and should be earbon neutral building.

Health

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.
- The proponent shall provide solar panels and contribute to the grid from the solar panel as proposed.
- 15. All the construction of Buildings shall be energy efficient and conform to the green building 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 as to ensure continuous and efficient operation.

Regulatory Frameworks

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- 17. The proponent shall adopt methodologies to effectively implement the 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.
- 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 preconstruction, construction and post-construction should be maintained in digitized format.
- The proponent should maintain environmental audits to measure and mitigate environmental concerns.

Biodiversity

- There should not be any impact due to the modification of the habitat on critically endangered species, biodiversity, etc..
- 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.

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- 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

- The proponent should develop an emergency response plan in addition to the disaster management plan.
- 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.
- The disaster management and disaster mitigation standards to be seriously adhered to avoid any calamities.
- 32. The proponent shall provide the emergency exit in the buildings.
- 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.
- 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 accredited laboratory and submit report to the concerned authorities.
- The proponent shall ensure that provision should be given for proper utilization of recycled water.
- 39. The project proponent shall adhere to storm water management plan as committed.

Parking

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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

- 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.

Environmental Clearance along with the conditions containing four parts namely

- Part A Common conditions applicable for Pre-construction, Construction and Operational Phases
 - Part B Specific Conditions Pre construction phase
 - Part C Specific Conditions Construction phase
 - Part D Specific Conditions Operational Phase/Post constructional Phase / Entire life of the project.

Validity:

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

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conditions stipulated below:

CONDITIONS IMPOSED BY SEAC:

- The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
- PP shall submit the commitment letter from the local body for supply of fresh water before issue of EC.
- STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
- 4. 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 ecosystem.
- 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.
- Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).
- 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.
- The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
- Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.

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- Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
- 11. Proponent shall provide the dual pipeline network in the project for utilization of treated 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.
- The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
- The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.

1. Statutory Compliance:

- 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.
- 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 lightning etc.
- The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- 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.
- The project proponent shall obtain the necessary permission for drawing of ground water / surface water required for the project from the competent authority.
- 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.

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- All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management)
 Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

1. Air quality monitoring and preservation:

- 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.
- A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 andPM25) covering upwind and downwind directions during the construction period.
- 4. 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.
- Sand, murram, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
- Wet jet shall be provided for grinding and stone cutting.
- Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress
 dust.
- 8. 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 Rules 2016.

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- 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 mission standards.
- 10. 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. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- 11. For indoor air quality the ventilation provisions as per National Building Code of India.

2. Water Quality Monitoring and Preservation:

- 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 rainwater.
- Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- Total freshwater use shall not exceed the proposed requirement as provided in the project details.
- 4. The quantity of freshwater 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 Half Yearly Compliance Reports (HYCR).
- 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. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.

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- 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,
- 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.
- 9. 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.
- 10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred,
- 11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- A rainwater 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 freshwater requirement shall be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- All recharges should be limited to shallow aquifer.
- 14. No ground water shall be used during construction phase of the project.
- 15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- 16. The quantity of freshwater 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 Half Yearly Compliance Reports (HYCR).

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- 17. 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, not related water shall be disposed into municipal drain.
- 18. No sewage or untreated effluent water would be discharged through storm water drains.
- 19. Onsite sewage treatment of capacity of treating 100% wastewater 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 wastewater 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.
- 20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be taken to mitigate the odor problem from STP.
- 21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

3. Noise Monitoring and Prevention:

- I. 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.
- Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of Half Yearly Compliance Report (HYCR).
- 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.

4. Energy Conservation Measures:

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- 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.
- Outdoor and common area lighting shall be LED.
- The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
- 4. 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.
- 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.
- Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
- 7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

5. Waste Management:

- 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.
- 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.

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- 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.
- Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg/person/day must be installed.
- All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- 7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
- 8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
- Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
- 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.

6. Green Cover:

- 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).
- 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.

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- 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.
- 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.
- A wide range of indigenous plant species should be planted as given in the Appendix-I, in consultation with the Government Forest/Horticulture Departments and State Agriculture University.

7. Transport:

- 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.
 - e. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
- Vehicles hired to bring 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.
- 3. 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 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

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the implementation of components of the plan which involve the participation of these departments.

8. Human Health Issues:

- 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.
- 2. For indoor air quality the ventilation provisions as per National Building Code of India.
- Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- 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.
- 5. Occupational health surveillance of the workers shall be done on a regular basis.
- A First Aid Room shall be provided in the project both during construction and operations of the project.

9. Corporate Environment Responsibility:

- The PP shall complete the CER activities, as committed, before obtaining CTE.
- 2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe 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 Half Yearly Compliance Report (HYCR).
- 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 to the head of the organization.
- 4. 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

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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 Half Yearly Compliance Report (HYCR).

10. Miscellaneous:

- The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
- 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 must display the same for 30 days from
 the date of receipt.
- 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.
- The project proponent shall submit Half Yearly Compliance Reports (HYCR) 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.
- 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.
- The project proponent shall inform the Authority (SEIAA) of 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.
- The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.

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- 9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
- 10. 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. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.
- 13. The Regional Office of the MoEF&CC 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.
- 11. 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.

STANDARD CONDITIONS

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

- 1. Any appeal against this Environmental Clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 2. The construction of STP, ETP, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.
- 3. The Environmental safeguards contained in the application of the proponent/mentioned during the presentation before the State Level Environment Impact Assessment

- Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.
- 4. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.
- The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.
- A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.
- 7. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
- The Regional Office of the Ministry located at Chennai shall monitor compliance
 of the stipulated conditions. The project authorities should extend full cooperation to
 the officer (s) of the Regional Office by furnishing the requisite data / information /
 monitoring reports.
- "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
- In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
- 11. The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for

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protection of Child Right Rules ,2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law, including the Hon'ble National Green Tribunal relating to the subject matter.

- The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
- Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- 14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM₁₀, PM_{2.5}, SO₂, NO₃ (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.
- 15. The SEIAA, TN may cancel the Environmental Clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the Environmental Clearance.
- 16. The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.
- 17. The SEIAA. TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.
- 18. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
- 19. Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for every one tree that is cut) should be done with the obligation to continue maintenance.

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- 20. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.
- 21. The EMP cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
- 22. The Project Proponent has to provide adequate rain water harvesting pits as committed s to recover and reuse the rain water during normal rains as reported.
- The project activity should not cause any disturbance & deterioration of the local bio diversity.
- 24. The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.
- 25. All the assessed flora & fauna should be conserved and protected.
- The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84
 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
- Necessary permission shall be obtained from the competent authority for the drawl / outsourcing of fresh water before obtaining consent from TNPCB.
- The proponent shall appoint an Environmental Engineer with necessary qualification for the operation and maintenance of STP (Sewage Treatment Plant) and GWTP (grey water Treatment Plant)
- 29. The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.
- 30. All the mitigation measures committed by the proponent for the flood management, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
- 31. No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.
- Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.
- 33. The safety measures proposed in the report should be strictly followed.

Part - B - Specific Conditions - Pre construction phase:

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- The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.
- In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
- A copy of the clearance letter shall be sent by the proponent to the Local Body.The clearance letter shall also be put on the website of the Proponent.
- 4. The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of firefighting equipments, etc. as per National Building Code including protection measures from lightning etc. before commencement of the work.
- All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.
- 6. Design of buildings should be in conformity with the Seismic Zone Classifications.
- The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
- No construction activity of any kind shall be taken up in the OSR area.
- Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.
- The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.
- 11. The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.
- The project proponent shall ensure the entry of basement shall be above maximum flood level.

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

Part - C - Specific Conditions - Construction phase:

1. Construction Schedule:

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

2. Labour Welfare:

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

3. Water Supply:

- The entire water requirement during construction phase may be met from private tankers
- ii) Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.
- iv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
- v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devises / sensor based control.

4. Solid Waste Management:

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

5. Top Soil Management:

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

6. Construction Debris disposal:

- i) Disposal of construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people. The construction and demolition waste shall be managed as per Construction & Demolition Waste Management Rules, 2016.
- Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/lake/ stream etc.

7. Diesel Generator sets:

 Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon.

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- ii) The diesel required for operating stand by DG sets shall be stored in barrels fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.
- iii) The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc.

8. Air & Noise Pollution Control:

- Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.
- ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.
- iii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per CMDA norms. The traffic department shall be consulted and any cost effective traffic regulative facility shall be met before commissioning.
- iv) The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.
- v) The project proponent should ensure that adequate Air Pollution Control measures shall be provided from buses and other vehicles, which will be entering the bus terminal. Further, water sprinkling system shall be provided and same shall be used at regular interval to control the dust emission within the project site.

9. Building material:

 Fly-ash blocks should be used as building material in the construction as per the provision of Fly ash Notification of September, 1999 and amended as on 27th August, 2003 and Notification No. S.O. 2807 (E) dated: 03.11.2009.

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- Ready-mix concrete shall alone be used in building construction and necessary cube-tests should be conducted to ascertain their quality.
- iii) Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.

10. Storm Water Drainage:

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

11. Energy Conservation Measures:

- Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill the requirement.
- ii) Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.
- iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.
- iv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.
- v) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three month's time.
- vi) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

12. Fire Safety:

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

13. Green Belt Development:

- i) The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is completed.
- ii) The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area all along the boundary of the project site with at least 3 meter wide and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval.
- iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.

14. Sewage Treatment Plant:

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

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vi) The project proponent has to provide separate standby D.G set for the STP/GWTP for the continuous operation of the STP/GWTP in case of power failure.

15. Rain Water Harvesting:

- i) The proponent shall ensure that roof rain water collected from the covered roof of the buildings, etc shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused.
- Rain water harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc.
- iii) The Project Proponent has to provide adequate rain water harvesting pits as committed to recover and reuse the rain water during normal rains as reported.
- The project activity should not cause any disturbance & deterioration of the local bio diversity.

16. Building Safety:

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

<u>Part - D - Specific Conditions - Operational Phase/Post constructional phase/Entire life</u> of the project:

- 1. There should be Firefighting plan and all required safety plan.
- Regular fire drills should be held to create awareness among owners/ residents.
- Hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM Rules 2016.
- The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.
- Solar energy saving shall be increased to atleast10% of total energy utilization.
- The Project proponent has to spend the CER as committed in the affidavit. The above activity shall be carried out before obtaining CTO from TNPCB.

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- The EMP cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually
- The EMP cost shall be printed in the Brochure / Pamphlet for the preparation of the sale
 of the property and should also mention the component involved.
- The Project proponent shall get due permission from the wetland Authority before the commencement of the work, if applicable.
- 10. The Project proponent should discuss with the wet land Authority, Tamil Nadu Forest Department, PWD and support lake restoration cum improvement, awareness and conservation programs.
- 11. The project activities should in no way disturb the manmade structures.
- 12. The Proponent shall do afforestation/ restoration programme contemplated to strengthen the open spaces shall preferably include native species along with the financial forecast for planting and maintenance for 5 years.
- 13. "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
- 14. Raw water quality to be checked for portability and if necessary RO plant shall be provided.
- 15. The Proponent should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in Environment Clearance (EC) order issued by the SEIAA-TN or the Proponent himself shall maintain all the above facilities for the entire period. The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.
- 16. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.

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- 17. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP.
- The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
- 19. It is the sole responsibility of the proponent that the treated sewage water disposed for green belt development/ avenue plantation should not pollute the soil/ ground water/ adjacent canals/ lakes/ ponds, etc
- Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.
- 21. The e waste generated should be collected and disposed to a nearby authorized ewaste centre as per E- waste (Management & Handling), Rules 2016 as amended.
- 22. Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.
- The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
- 24. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other Wastes (Management & Transboundary Movement) Rules 2016. Spent oil from D.G sets should be disposed off through registered recyclers.
- The proponent is required to provide a house hold hazardous waste / E-waste collection and disposal mechanism.
- 26. The proponent shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.

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- 27. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- 29. The Environmental Clearance is issued based on the documents furnished by the project proponent. In case any documents found to be incorrect/not in order at a later date the Environmental Clearance issued to the project will be deemed to be revoked/cancelled.

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Copy to:

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



File No.: 9898

Government of India

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





Dated 18/06/2024



To,

Managing Director

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SIPCOT)

19-A, Rukmani Lakshmipathy Road, Egmore, Chennai, Egmore, CHENNAI, TAMIL NADU, Egmore,
600008

projects@sipcot.in

Subject:

Amendment in Environmental Clearance (EC) dated 23/05/2024 granted to the project under the provision of the EIA Notification 2006 and as amended thereof-regarding.

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/TN/INFRA2/467287/2024 dated 23/05/2024 for grant of an amendment in prior Environmental Clearance (EC) to the project Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District over an extent of 77.095 Ha (190.42 Acres) at Survey No: 213/2, 213/3 & 213/4 of A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District, under the provision of the EIA Notification 2006-and as amended thereof.

Ref:

- 1. Earlier EC issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.9898/ 8(b)/EC.No.1001/2023 dated:10.01.2024.
- 2. Online proposal No. SIA/TN/INFRA2/467287/2024 dated: 26.04.2024.
- 3. Proponent application for EC Amendment dated: 29.04.2024.
- 2. The particulars of the proposal are as below:

(vii) Name of Project

(i) EC Identification No. EC24B3813TN5337555A

(ii) File No. 9898

(iii) Clearance Type Amendment in EC

(iv) Category B1

(v) Schedule No./ Project Activity

8(b) Townships/ Area Development Projects /

Rehabilitation Centres

DEVELOPMENT OF SPECIAL ECONOMIC

ZONE (SEZ) AT KALLAKURICHI DISTRICT

Land area – 77.09 Ha. (190.42 Acres)

(viii) Location of Project (District, State) KALLAKURICHI, TAMIL NADU

NO

(ix) Issuing AuthoritySEIAA(x) EC Date18/06/2024

(xi) Applicability of General Conditions

 $\mbox{(xiii) Status of implementation of the project} \\$

- 3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-4(Part A, B and C) were submitted to the SEIAA for an appraisal by the State Environment Impact AssessmentAuthority(SEIAA) Appraisal Committee SEIAA under the provision of EIA notification 2006 and its subsequent amendments.
- 4. The SEAC, based on information submitted viz: Form-4(Part A, B and C) and other report etc., & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and compliance thereto furnished by the Project Proponent, recommended the proposal for grant Amendment 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

5. The SEAC noted the following:

- 1) Earlier, the Proponent has obtained EC vide Lr.No.SEIAA-TN/F.No.9898/8(b)/EC.No.1001/2023 dated:10.01.2024 for the Proposed Development of Special Economic Zone (SEZ) at Kallakurichi District over an extent of 77.095 Ha (190.42 Acres) at Survey No: 213/2, 213/3 & 213/4 of A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu.
- 2) The project/activity is covered under Category "B1" of Item 8(b) "Townships and Area Development Projects" of the Schedule to the EIA Notification, 2006.
- 3) Now, the proponent has submitted an application in Form 4 vide Proposal No. SIA/TN/INFRA2/467287/2024 Dated: 26.04.2024 seeking the following amendments in the above-mentioned EC dated: 10.01.2024.

S. No	EC Page	Details as per EC	Amendment sought	- 211	Rema	arks		
			Annexure-	C				
1.	11	Energy	The proponent shall	Based on the requ	est receive	ed from p	otential	investor.
		14. The proponent shall	utilize not less than	Road map for the	utilizatio	n of Ren	ewable e	nergy is
		provide solar panels and	35% of renewable	1/8	given her	eunder:		
	0	contribute to the grid	energy by 2030 and	Renewable	2027	2028	2029	2030
		from the solar panel as	shall ensure the	Energy (%)				
		proposed.	buildings are energy	Rooftop Solar	3%	6%	9%	12%
2.	11	Energy	efficient.	(%)		600		
		15. All the construction	Further, Renewable	DPPA & REC	ی -	-	-	23%
		of Buildings shall be	energy will be a	(%)	.00			
		energy efficient and	combination of RTS	Total (%)	3%	6%	9%	35%
		conform to the green	(Rooftop Solar), REC	1 0-1				
		building norms. The PP	(Renewable Energy	In light of abo	ove, amen	dment so	ought ma	y be
		shall ensure that carbon		t5 \	consid	ered.		
		neutral building.	(Direct Power					
			Purchase Agreement),					
			etc., specific					
			implementation will					
			depend on the					
			feasibility study for					
			each solution.					
			The proponent shall					
			mandate individual					
			industries to adopt to					
			the building norms for					
			their Industrial sheds					

Conditions Imposed by SEAC Comply with Green Building norms and shall get minimum IGBC Gold rating. CIBC Gold rating. CIBC Gold rating. CIBC Gold rating for Dormitory.				and buildings.					
3. 15 1.The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating. 13. A rainwater parvesting plan needs to be designed where the recharge bore por 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall be provided. 14. No ground water shall be used during construction phase of the project. 15. 15. 16. 1					by SEAC				
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building byelaws requirement, whichever is higher. 8. 21 7. Solar power shall be used for lighting in the shall be provided to lighting in the shall be provided to lighting in the shall be provided to lighting in the shall be etc., specific considered. etc., specific implementation will depend on the feasibility study for each solution. Based on the request received from potential involutions. In light of above, amendment sought may be			demand load or as per	(Direct Power					
requirement, whichever is higher. is higher. depend on the feasibility study for each solution. 8. 21 7. Solar power shall be used for lighting in the shall be provided to In light of above, amendment sought may be			the state level /local	Purchase Agreement),	In light of abo	ove, amen	dment so	ought ma	y be
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feasibility study for each solution. 8. 21 7. Solar power shall be used for lighting in the shall be provided to In light of above, amendment sought may be			requirement, whichever	implementation will					
8. 21 7. Solar power shall be Solar water heating used for lighting in the shall be provided to In light of above, amendment sought may be			_	depend on the					
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used for lighting in the shall be provided to In light of above, amendment sought may be									
used for lighting in the shall be provided to In light of above, amendment sought may be	8.	21	7. Solar power shall be	Solar water heating	Based on the requ	est receive	ed from p	otential	investor
			_	_	In light of abo	ove, amen	dment so	ought ma	y be
			apartment to reduce the	meet the hot water				-	
power load on grid. demand of dormitory			-						
Solar water heating as per the local			-	•					

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		shall be provided to	building byelaws.	
		meet 20% of the hot		
		water demand of the		
		commercial and		
		institutional building or		
		as per the requirement		
		of the local building		
		byelaws, whichever is		
		higher.		
			Waste Manage	ment
9.	22	4. Organic waste	The proponent shall	Based on the request received from potential investor.
		compost/ Vermiculture	dispose all kinds of	In light of above, amendment sought may be
		pit/ Organic Waste	organic waste will be	considered.
		Converter within the	used as manure for	
		premises with a	greenbelt development	
		minimum capacity of	or it will be collected	CAA N
		0.3 kg /person /day	and sold to TNPCB	
		must be installed.	authorized recyclers	
			vendors	
10	22	7. Use of	Use of	Based on the request received from potential investor.
	7	environmentally	environmentally	In light of above, amendment sought may be
		friendly materials in	friendly materials in	considered.
	/ 5	bricks blocks and other	bricks blocks and	7.29
		construction materials	other construction	
	- 2	shall be required for at	materials shall be	
		least 20% of the	utilised by individual	S
		construction material	industries as per their	S
		quantity.	requirement.	
				Pre construction phase
11	30	9. Consent of the local		Based on the request received from potential investor
- 11	30	body concerned should	sewage shall satisfy	since treated sewage will not be used for bathing.
1		be obtained for using	the quality prescribed	In light of above, amendment sought may be
		the treated sewage in	by the TNPCB/CPCB	considered.
		the OSR area for	norms for the	Considered
		gardening purpose. The	utilisation of	- D
		quality of treated	OSR/Greenbelt	5
		sewage shall satisfy the	development.	
		bathing quality		210
		prescribed by the		e. Y
		CPCB.	0.0	
			: Specific Condition –	Construction phase
12	33	4.Solid waste		Based on the request received from potential investor.
		Management	used as manure for	In light of above, amendment sought may be
		_	greenbelt development	
		management plan, the	or it will be collected	
		STP the STP sludge	and sold to TNPCB	
		management plan for	authorized recyclers	
		direct use as manure for	vendors.	
		gardens is not	, 5114015.	
		acceptable; it must be		
		co-composted with		
		biodegradables.		
13	35	9. Building Material	Use of double glass	Based on the request received from potential investor.
13	33	5. Dunuing Material	Ose of double glass	pased on the request received from potential investor.

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	ı	I		
		iii) Use of glass shall be		, ,
		reduced up to 40% to	coating in building	considered.
		reduce the electricity	shall be utilised as per	
		consumption and load	design approval from	
		on air conditioning. If	concerned authority.	
		necessary high quality		
		double glass with		
		special reflecting		
		coating shall be used in		
		windows.		
14	35	10. Storm water	Storm water	Based on the request received from potential investor.
1		Drainage	management plan	In light of above, amendment sought may be
		ii) Storm water	shall be obtained by	considered.
		management plan shall	engaging the services	considered.
		_		
		be obtained by engaging	•	Ca
		the services of Anna	IIT / any other reputed	746
		university/ IIT.	government	
		11.5	organisation.	
15.	35	11. Energy		Based on the request received from potential investor.
		Conservation	conservation	Same was provided in EIA report.
		Measures	measures conforming	In light of above, amendment sought may be
	4	v) A report on the	to energy	considered.
		energy conservation	conservation norms	
		measures conforming to	prescribed by	The state of the s
		energy conservation	the Bureau of Energy	
		norms prescribed by the	Efficiency	S
		Bureau of Energy	shall be prepared	S
		Efficiency shall be	incorporating	
		prepared incorporating	details about building	
		details about building	materials &	
		materials & technology;	technology; R & U	118
		R & U factors etc. and	factors etc. and	200
		submitted to the SEIAA		A CONTRACTOR OF THE PARTY OF TH
		in three months' time	SEIAA in three	· //// /- /- /- /-
		in three months time	1 200	
		601	months' time / before	EN
		75 T	work	
		100 M	commencement – for	
		0 4	dormitory	
	2=	C TTI	14. Sewage Treatm	
16	37	6. The project		Based on the request received from potential investor.
		proponent has to	the separate standby	In light of above, amendment sought may be
		provide separate	DG set for the STP for	considered.
		standby DG set for the	the continuous	
		STP/GWTP for the	operation of the STP	
		continuous operation of	_	
		the STP/GWTP in case	failure. The standby	
		of power failure.	DG operation could be	
			centralized or stand-	
			alone in individual	
			industry area.	
Pa	art – D: S	Specific Conditions – Or	-	constructional phase/Entire Life of the project
17	37	5. Solar energy saving	Solar energy	Based on the request received from potential investor.
		shall be increased to at	consumption shall	Same was provided in EIA report.
	l			F

SIA/TN/INFRA2/467287/2024 Page 5 of 11

		least 10% of total	be at least 10% of	In light of above, amendment sought may be
		energy utilization.	total energy	considered.
			utilization.	
18	38	16. The ground water	The ground water	Based on the request received from potential investor.
		level and its quality	level and its	In light of above, amendment sought may be
		should be monitored	quality should be	considered.
		and recorded regularly	monitored and	
		in consultation with	recorded regularly in	
		Ground Water	consultation with	
		Authority.	PWD/TWAD-	
			if ground water is	
			used.	

Based on the presentation & documents furnished by the PP, SEAC decided to **recommend the following** amendments in the Environmental Clearance.

	EC Page	Details as per EC	A	mendmen	t recomm	ended	
		_	exure-C				
1.	11	Energy 14. The proponent shall provide solar panels and contribute to the grid from the solar panel as proposed. Energy	The proponent she energy by 2030 Further, Renewa (Rooftop Solar),	and shall e ef able energy	ensure the licient. y will be a	buildings a	on of RTS
۷.	1 3	15. All the construction of Buildings shall be energy efficient and conform to the green building norms. The PP shall ensure that carbon neutral building.	DPPA (Direct P implementation when the proponent shat the building norm Road map for the implementation when the building norm the state of the implementation when the implementation is not the implementation when th	ower Purc vill depend so all mandate ns for their utilizatio her	hase Agree l on the fea olution. e individua r Industrial n of Renev reunder:	ement), etc sibility stu l industries sheds and vable energ	., specific dy for each s to adopt to buildings. gy is given
			Renewable Energy (%)	2027	2028	2029	2030
	,	Protects	Rooftop Solar (%)	3%	6%	9%	12%
		Cpc	DPPA & REC (%)	-	:5%	-	23%
			Total (%)	3%	6%	9%	35%
	•	Conditions In	nposed by SEAC	01			
3.	15	1.The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.	The construction and shall get mi				_
		Water quality Mon	itoring and Preve	ention			
4.	19	12. A rainwater 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 freshwater requirement shall be provided.	A rainwater harve tank, under norma in such a way tha (RWH) pond of	sting plan al weather t storage c capacity	conditions apacity is]	, needs to l Rainwater L and RW	be designed Harvesting
5.	19	14. No ground water shall be used during construction phase of the project.	The propone PWD/TWRD bef	ore using			
			ervation Measures		quiicu.		
		Energy Consc	a , acioni micasul c	,			

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6.	21	3. The proponent shall provide solar panels covering a minimum of 50% of	The proponent she energy by 2030. R	Renewable	energy wi	ll be a com	bination of
	21	terrace area as committed.	RTS (Rooftop So				·
7.	21	6. Solar, wind or other Renewable	and DPPA (Direct implementation w		_		-
		Energy shall be installed to meet	implementation w	-	lution.	sibility stu	dy for each
		electricity generation equivalent to 1%	Doed man for the			uahla anara	ry ic givon
		of the demand load or as per the state level /local building byelaws	Road map for the		eunder:	vable ellerg	gy is given
		requirement, whichever is higher.	Renewable	2027	2028	2029	2030
			Energy (%)				
			Rooftop Solar	3%	6%	9%	12%
			(%)				
			DPPA & REC	-	-	-	23%
			(%)				
		, CYC	Total (%)	3%	6%	9%	35%
		e v		40			
8.	21	7. Solar power shall be used for	Solar water heating	-	-		
		lighting in the apartment to reduce the	demand of dorr	nitory as p	er the loca	l building	byelaws.
		power load on grid. Solar water heating	/ -				
		shall be provided to meet 20% of the	V M				
		hot water demand of the commercial	- J				
	/	and institutional building or as per the	IIT DO				y'
		requirement of the local building	- CA				
		byelaws, whichever is higher.	-				
	1 22		Management	11 11	11.1.1.1		
9.	22	4. Organic waste compost/	The proponent shall dispose all kinds of organic waste we be used as manure for greenbelt development or it will be				
		Vermiculture pit/ Organic Waste					
		Converter within the premises with a minimum capacity of 0.3 kg/person	collected and solo	I to TNPC	B authoriz	ed recycles	rs vendors.
		/day must be installed.					
10	22	7. Use of environmentally friendly	Use of environm	antally frie	andly mate	riole in bri	eke blocke
10	22	materials in bricks blocks and other	and other con				
		construction materials shall be required	4.00				
		for at least 20% of the construction	iiidi (iddul	maastries	us per the	a requirem	
		material quantity.	EM				
		Part – B: Specific Condit	tion – Pre constru	ction pha	se		
11	30	9. Consent of the local body concerned				satisfy the	quality
		should be obtained for using the treated			_	-	
		sewage in the OSR area for gardening	OS	SR/Greenb	elt develop	pment.	
		purpose. The quality of treated sewage	agnts \				
		shall satisfy the bathing quality	iene l				
		prescribed by the CPCB.					
		Part – C: Specific Cond	dition – Construct	ion phase	<u> </u>		
12	33	4.Solid waste Management	STP sludge			_	
		i) In the solid waste management plan,	development or				TNPCB
		the STP the STP sludge management	au	thorized re	ecyclers ve	ndors.	
		plan for direct use as manure for					
		gardens is not acceptable; it must be					
		co-composted with biodegradables.				~ .	
13	35	9. Building Material	Use of double	_	-	_	_
		iii) Use of glass shall be reduced up to	building shall		-		al from
		40% to reduce the electricity		concern	ed authorit	y.	
		consumption and load on air					

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conditioning. If necessary high quality double glass with special reflecting coating shall be used in windows. 14 35 10. Storm water Drainage ii) Storm water management plan shall the services of Anna university/ IIT / any other reservices.	engaging
coating shall be used in windows. 14 35 10. Storm water Drainage Storm water management plan shall be obtained by	engaging
14 35 10. Storm water Drainage Storm water management plan shall be obtained by	engaging
	engaging
ii) Storm water management plan shall—the services of Anna university/ HT / any other r	
11) Storm water management plan shall the services of Anna university/ III / any other i	eputed
be obtained by engaging the services of government organisation.	
Anna university/ IIT.	
15. 35 11. Energy Conservation Measures A report on the energy conservation measures confe	orming to
v) A report on the energy conservation energy conservation norms prescribed by the But	eau of
measures conforming to energy Energy Efficiency shall be prepared incorporating	details
conservation norms prescribed by the about building materials & technology; R & U fac	tors etc.
Bureau of Energy Efficiency shall be and submitted to the SEIAA in three months' time	/ before
prepared incorporating details about work commencement – for dormitory	
building materials & technology; R &	
U factors etc. and submitted to the	
SEIAA in three months' time	
14. Sewage Treatment Plant	
16 37 6. The project proponent has to provide Proponent will ensure the separate standby DG se	for the
separate standby DG set for the STP for the continuous operation of the STP in case	of power
STP/GWTP for the continuous failure. The standby DG operation could be central	lized or
operation of the STP/GWTP in case of stand-alone in individual industry area.	
power failure.	
Part - D: Specific Conditions - Operational phase/Post constructional phase/Entire Life of the pro-	ject
17 5. Solar energy saving shall be The proponent shall utilize not less than 35% of re	newable
increased to at least 10% of total energy by 2030.	
energy utilization.	
18 38 16. The ground water level and its The ground water level and its quality should be m	onitored
quality should be monitored and and recorded regularly in consultation with PWD/T	WAD- if
recorded regularly in consultation with ground water is used.	
Ground Water Authority.	

The remaining conditions stipulated vide Lr.No.SEIAA-TN/F.No.9898/8(b)/EC.No.1001/2023 dated:10.01.2024 will remain unaltered.

- 6. The SEIAA has examined the proposal in accordance with the extant provisions of the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on recommondation of SEAC hereby accords amendment in Environment Clearance dated 29/04/2024 for the instant proposal to M/s. Managing Director under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of EC conditions, general instructions issued vide EC letter dated and EC identification number SIA/TN/INFRA2/467287/2024 and following additional specific conditions as mentioned below:
- 7. After detailed discussion accepts the recommendation of SEAC and decided to grant Amendment in the Environmental Clearance as follows subject to grant the existing conditions as mentioned in the EC vide SEIAA-TN/F.No. 9898/8(b)/EC.No.1001/2023 dated:10.01.2024 are remains unaltered.

S. No	EC Page	Details as per EC	Amendment granted
		Ann	exure-C
1.	11	<u>Energy</u>	The proponent shall utilize not less than 35% of renewable
		14. The proponent shall provide solar	energy by 2030 and shall ensure the buildings are energy
		panels and contribute to the grid from	efficient.
		the solar panel as proposed.	Further, Renewable energy will be a combination of RTS
2.	11	<u>Energy</u>	(Rooftop Solar), REC (Renewable Energy Certificate) and
		15. All the construction of Buildings	DPPA (Direct Power Purchase Agreement), etc., specific
		shall be energy efficient and conform to	implementation will depend on the feasibility study for each
		the green building norms. The PP shall	solution.

		ensure that carbon neutral building.	The proponent sha				-
			the building norn	ns for their	Industrial	sheds and	buildings.
			Road map for the		n of Renev eunder:	vable energ	gy is given
			Renewable	2027	2028	2029	2030
			Energy (%)	2021	2020	2029	2030
			Rooftop Solar	3%	6%	9%	12%
			(%)	370	070	770	1270
			DPPA & REC	_		_	23%
			(%)				23 70
			Total (%)	3%	6%	9%	35%
			= 0 000 (10)	- 7.1		7.7	
		Conditions I	mposed by SEAC				
3.	15	1.The construction shall comply with	The construction	shall com	ply with G	reen Build	ing norms
		Green Building norms and shall get	and shall get min	nimum IG	BC Gold ra	ating for D	ormitory.
		minimum IGBC Gold rating.	·	46			
		Water quality Mor	nito <mark>ring and Preve</mark>	ention			
4.	19	12. A rainwater harvesting plan needs	A rainwater harve				
	1	to be designed where the recharge	tank, under norma				_
		bores of minimum one recharge bore	in such a way tha	t storage ca	apacity is <u>l</u>	Rainwater !	Harvesting
	/	per 5,000 square meters of built-up area	(RWH) pond of	capacity 1	9376.28K	L and RW	H tank of
	/	and storage capacity of minimum one	capa	acity 2430	KL (2X12	215KL).)¹
		day of total freshwater requirement	183				
		shall be provided.					
5.	19	14. No ground water shall be used	The propone				
		during construction phase of the	PWD/TWRD before	ore using g	grou <mark>nd</mark> wat	ter for cons	truction, if
		project.			quired.		
	_		ervation Measures				
6.	21	3. The proponent shall provide solar	The proponent sh				
		panels covering a minimum of 50% of	energy by 2030. R				
		terrace area as committed.	RTS (Rooftop So				· ·
7.	21	6. Solar, wind or other Renewable	and DPPA (Direct		_		-
		Energy shall be installed to meet	implementation w	-		sibility stu	dy for each
		electricity generation equivalent to 1%	D 1 0 1		lution.		
		of the demand load or as per the state	Road map for the			vable energ	gy is given
		level /local building byelaws	Danamahla		eunder:	2020	2020
		requirement, whichever is higher.	Renewable	2027	2028	2029	2030
			Energy (%)	201	601	0.07	100/
		0.0	Rooftop Solar	3%	6%	9%	12%
		- Payr	(%)				2201
			DPPA & REC	-	-	-	23%
			(%)	201	601	001	2501
			Total (%)	3%	6%	9%	35%
8.	21	7. Solar power shall be used for	Solar water heating	no shall ba	nrovided	to meet the	hot water
0.	21	lighting in the apartment to reduce the	demand of dorr				
		power load on grid. Solar water heating			-1 the 10ca	canaing	- j = 14 + 15 ·
		shall be provided to meet 20% of the					
		hot water demand of the commercial					
		and institutional building or as per the					
		requirement of the local building					
		byelaws, whichever is higher.					
		1	ı				

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	Waste Management						
9.	22	4. Organic waste compost/	The proponent shall dispose all kinds of organic waste will				
		Vermiculture pit/ Organic Waste	be used as manure for greenbelt development or it will be				
		Converter within the premises with a	collected and sold to TNPCB authorized recyclers vendors.				
		minimum capacity of 0.3 kg /person					
		/day must be installed.					
10	22	7. Use of environmentally friendly	Use of environmentally friendly materials in bricks blocks				
10		materials in bricks blocks and other	and other construction materials shall be utilised by				
		construction materials shall be required	•				
		for at least 20% of the construction	marviadar madistres as per their requirement.				
		material quantity.					
			tion – Pre construction phase				
11	30	9. Consent of the local body concerned	The quality of treated sewage shall satisfy the quality				
11	30	•	prescribed by the TNPCB/CPCB norms for the utilisation of				
		sewage in the OSR area for gardening	OSR/Greenbelt development.				
		purpose. The quality of treated sewage	OSK/Oreenben development.				
		shall satisfy the bathing quality					
		prescribed by the CPCB.	Programme Construction and Construction				
10	22		dition – Construction phase				
12	33	4.Solid waste Management	STP sludge will be used as manure for greenbelt				
	/	i) In the solid waste management plan,	development or it will be collected and sold to TNPCB				
	/ -	the STP the STP sludge management	authorized recyclers vendors.				
		plan for direct use as manure for					
	2	gardens is not acceptable; it must be					
		co-composted with biodegradables.					
13	35	9. Building Mate <mark>rial</mark>	Use of double glass with special reflecting coating in				
		iii) Use of glass shall be reduced up to	building shall be utilised as per design approval from				
		40% to reduce the electricity	concerned authority.				
		consumption and load on air					
		conditioning. If necessary high quality					
		double glass with special reflecting					
		coating shall be used in windows.					
14	35		Storm water management plan shall be obtained by engaging				
		ii) Storm water management plan shall	the services of Anna university/ IIT / any other reputed				
		be obtained by engaging the services of	government organisation.				
		Anna university/ IIT.					
15.	35	11. Energy Conservation Measures	A report on the energy conservation measures conforming to				
		v) A report on the energy conservation	energy conservation norms prescribed by the Bureau of				
		measures conforming to energy	Energy Efficiency shall be prepared incorporating details				
		conservation norms prescribed by the	about building materials & technology; R & U factors etc.				
		Bureau of Energy Efficiency shall be	and submitted to the SEIAA in three months' time / before				
		prepared incorporating details about	work commencement – for dormitory				
		building materials & technology; R &					
		U factors etc. and submitted to the					
		SEIAA in three months' time					
			Treatment Plant				
16	37	6. The project proponent has to provide	•				
		-	STP for the continuous operation of the STP in case of power				
		STP/GWTP for the continuous	failure. The standby DG operation could be centralized or				
		operation of the STP/GWTP in case of	stand-alone in individual industry area.				
		power failure.					
Pa	art – D: S	Specific Conditions - Operational phas	e/Post constructional phase/Entire Life of the project				

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17	37	5. Solar energy saving shall be	The proponent shall utilize not less than 35% of renewable
		increased to at least 10% of total	energy by 2030.
		energy utilization.	
18	38	16. The ground water level and its	The ground water level and its quality should be monitored
		quality should be monitored and	and recorded regularly in consultation with PWD/TWAD- if
		recorded regularly in consultation with	ground water is used.
		Ground Water Authority.	

8. This issues with the approval of the Competent Authority

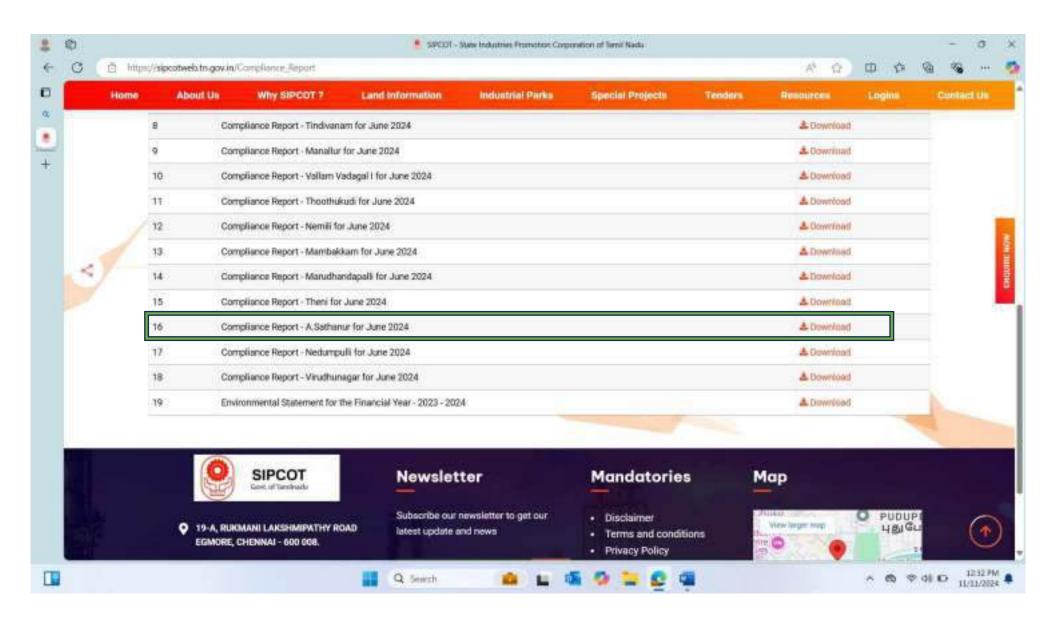
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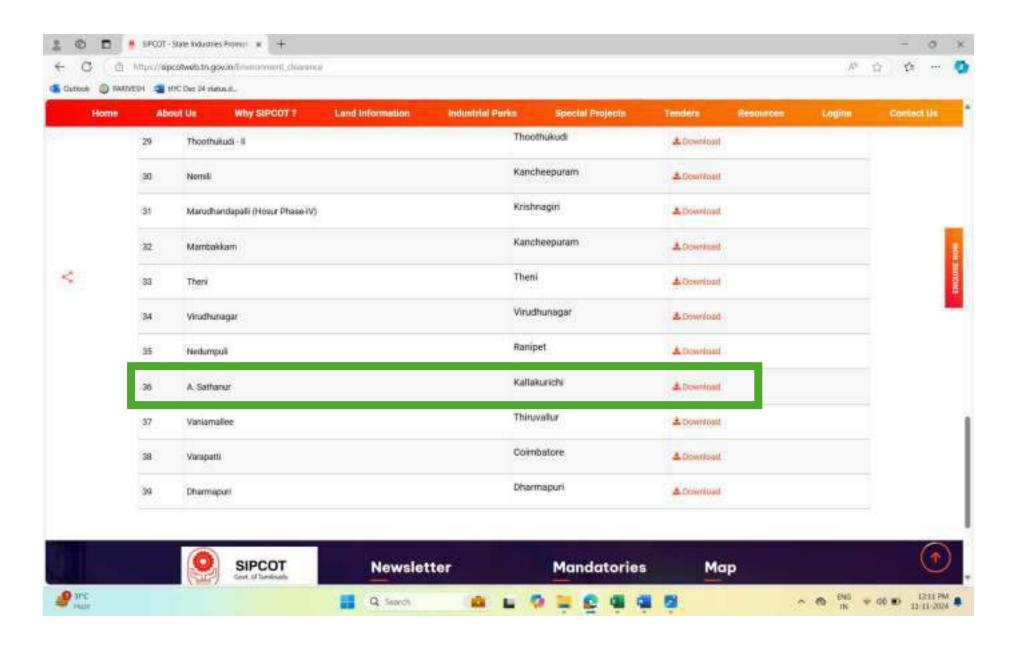
- 1. The Principal Secretary to Government, Environment & Forests Dept, Govt. of Tamil Nadu, Forest st. George, Chennai-
- 2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
- 3. The Member Secretary, Tamil Nadu Pollution Control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

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

1. Seiaa Speciffic Conditions:

S. No	EC Conditions
1.1	The Authority after detailed discussion accepts the recommendation of SEAC and decided to grant Amendment in the Environmental Clearance as follows subject to grant the existing conditions as mentioned in the EC vide SEIAA-TN/F.No. 9898/8(b)/EC.No.1001/2023 dated:10.01.2024 are remains unaltered.





P-IV/EC/I/179105/2024/KKI

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

(BY PPAP)

Date: 30.09.2024

Sir,

Sub: SIPCOT SEZ at A.Sathanur, Kallakurichi – Environmental Statement for the Financial Year ending 31st March 2024 - Submitted – Reg.

Ref: SEIAA EC Letter No.SEIAA-TN/F.No.9898/8(b)/EC.No.:1001/2023 dated 10.01.2024.

With reference to the above, we hereby submit the Environmental Statement in Form-V as prescribed under the Environmental (Protection) Rules, 1986 and its subsequent amendment in respect of Development Special Economic Zone (SEZ) at A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu for the Financial Year ending 31st March 2024.

Yours faithfully, Sd/-MANAGING DIRECTOR

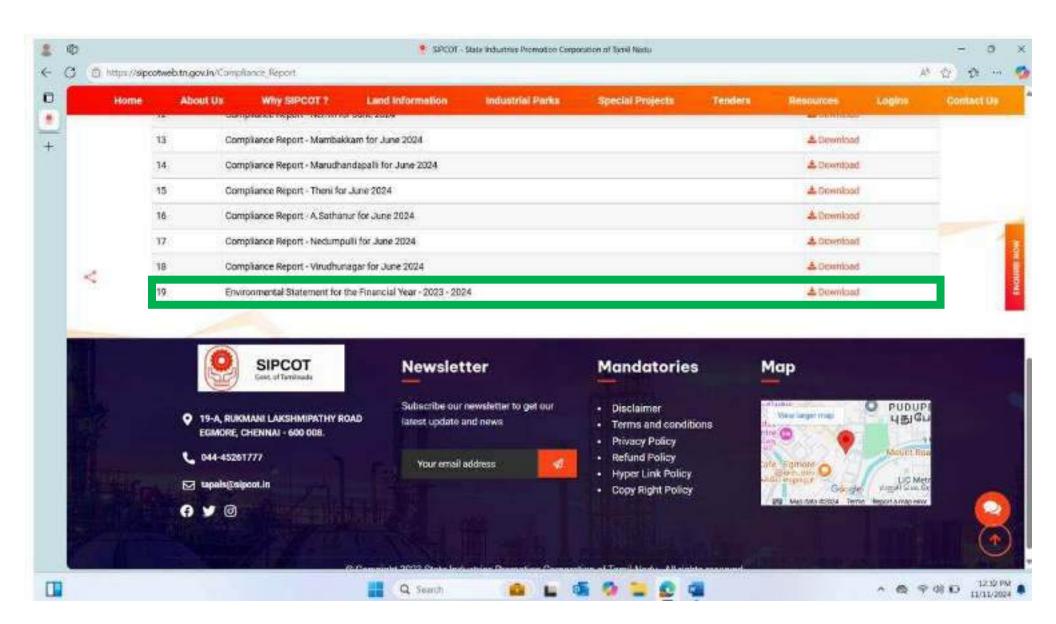
Encl: As above.

/Forwarded by Order/

ASSISTANT GENERAL MANAGER (P-IV)

Shr,
Focumpened
O/C.
Stel
Solatory





Forton 01.02.2024.



தமிழ்நாடு தொழில் முன்னேற்ற நிறுவனம் 19-ஏ. ருக்குமணி இலட்சுமிபதி சாலை, எழும்பூர். சென்னை – 600 008.



CIN U74999TN1971SGC005967

சிப்காட் சிறப்பு பொருளாதார மண்டலம் சுற்றுகுழல் இசைவாணை

மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையம், தமிழ்நாடு கடித எண் SEIAA-TN/F.No.9898/8 (b) / EC.No : 1001/2023 தேதி : 10.01.2024 மூலம் கள்ளக்குறிச்சி மாவட்டம், உளுந்தூர்பேட்டை தாலுக்காவில் உள்ள அ.சாத்தனூர் கிராமத்தில் "சிறப்பு பொருளாதார மண்டலம்" அமைப்பதற்கான சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

இவ்விசைவாணையின் முழுவிவரங்களை www.sipcot.tn.gov.in என்னும் சிப்காட் இணைய தளத்திலும், சுற்றுச்சூழல், வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம் மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு அணையத்தின் இணையதளத்திலும் பெற்றுக்கொள்ளலாம்.

மேலாண்மை இயக்குநர்

செ.ம.தொ. இ / 99 / வரைகலை / 2024

Indian Express

01.02.2024



STATE INDUSTRIES PROMOTION



CORPORATION OF TAMIL NADU LIMITED 1CC 19-A, RUKMANI LAKSHMIPATHY ROAD, EGMORE, CHENNAI - 600 008. CIN U74999TN1971SGC005967

SIPCOT SPECIAL ECONOMIC ZONE **ENVIRONMENTAL CLEARANCE**

Environmental Clearance has been obtained for the proposed Development of Special Economic Zone at A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu from the State Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide Letter No. SEIAA-TN/F.No.9898/8(b)/EC.No:1001/2023 dated 10.01.2024.

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.

MANAGING DIRECTOR

THURSDAY $() |_{\bullet} () 2_{\bullet} 2 () 24$

newindianexpress com

'NMC must set up systems to resolve stipend defaults'

EXPRESS NEWS SERVICE @ Puducherry

THE Pondicherry State Students and Parents Welfare Association has urged the National Medical Commission (NMC) in New Delhi to establish a grievance redressal mechanism to resolve the stipend issues of house surgeons and post-graduate students.

President of the association, V Balasubramanian, emphasised on the urgent need to address the non-payment of stipends by certain medical colleges and deemed universities in Puducherry.

The norm dictates that house surgeons should receive ₹40,000 per month, while PG students are entitled to ₹80,000 per month. However, several private medical colleges and deemed universities have allegedly been withholding these payments, president Balasubramanian stated.

In the memorandum submitted to NMC, the association has highlighted a concerning practice where these colleges initially credit the stipends to the

'Colleges give stipends then take them back'

"These colleges initially credit the stipends to the students' accounts, only to collect it back later by way of demanding cheques from government quota students," said Balasubramanian

students' accounts, only to collect it back later by way of demanding cheques from government quota students whose tuition fees are subsidised, Balasubramanian added, calling for immediate action to rectify the situation.

The memorandum also proposed the creation of dedicated channels, including hotlines, email and social media handles, designed to address stipend-related issues. Balasubramanian also stressed on the importance of maintaining the privacy of students throughout the grievance redressal process. The association expressed its trust in NMC to promptly issue directions to the medical education directorates of all states and union territories, mainly in Puducherry.



OPEN SEASON

Egrets lying in wait for catch at a pond in Puducherry on Wednesday | SRIRAM R

Ex-DGP's harassment case put off again

EXPRESS NEWS SERVICE @ Villupuram

VILLUPURAM Chief Judicial Magistrate Purnima once again adjourned former Special DGP Rajesh Das' sexual harassment case to Thursday, February 1, as Das failed to appear for the hearing on Wednesday. Notably, Das' counsel has not argued the appeal case even once, and has repeatedly sought extensions. This comes despite the CJM's stringent warning issued in December against any more extensions, she had asked the counsel to finish arguments at the earliest.

Two days ago on Monday, Das had appeared in Villupuram court in the appeal against his three-year jail sentence issued in June 2023. CJM Purnima

had declared that if the counsel did not close arguments by the next hearing (January 31), she will pronounce the judgement on February 3.

Following another adjournment on Wednesday, the CJM warned Das' counsel that the court will appoint a government prosecutor to conduct the case if counsel once again fails to argue on February 1.

Youth succumbs to head injury at hosp six days after hit by bull at race

EXPRESS NEWS SERVICE @ Tirupattur

SIX days after being hit by a bull during the Eruthu Vidum Vizha (bull race) at Perumapet, 23-year-old Kesavan from Poongulam succumbed to a head injury at a private hospital on Tuesday. Notably, police said the bull race event had continued past the prescribed closing time of 2 pm, going on till 2.45 pm. Sources said, on January 24, Kesavan, a private company

employee, and his friends had attended the bull race event as spectators. During the event, Kesavan had approached a bull, which knocked and threw

him away, causing an in-

jury to the back of his

head. He was quickly transported to Tirupattur Government Hospital via an ambulance that had been stationed at the event as a precautionary measure. Subsequently, he was transferred to a private hospital in Vellore, where he passed

away on Tuesday.

EN MANN EN MAKKAL

BJP flagpole lands on man's head during padayatra event

EXPRESS NEWS SERVICE @ Tirupattur

A 54-year-old man, Kalil from Periyar Nagar, sustained a head injury after a 30-foot-tall BJP flagpole fell on him during the party's En Mann En Makkal Padayatra on Wednesday. Notably, the incident took place before BJP state president Annamalai delivered his address. Subsequently, the injured man was taken to Tirupattur Government Hospital for medical attention, police said.

EXPRESS NEWS SERVICE @ Vellore

CONSTRUCTING Mekedatu dam in Karnataka requires the approval of both the central and Tamil Nadu governments. said Water Resources Minister Duraimurugan on Wednesday.

He was speaking at the inauguration of 'Ungalai Thedi, Ungal Ooril' programme in Katpadi.

Earlier, the minister inspected various infrastructure projects in the district totalling a cost of ₹42 crore; he then offered insights regarding the regarding the feasibility of

construction of high-level and low-level bridges and also the reconstruction of Ponnai dam in Melpadi panchayat.

Following this, speaking to mediapersons, minister Duraimurugan expressed doubts

Karnataka's Mekedatu project. He also underscored the urgent need to submit a detailed report to the centre on the impact of the recent heavy rains and floods in the state.

Meanwhile, Tiruvannamalai Collector Baskara Pandian in-

spected the living conditions of the Irular Colony residents in Polur. Moreover, Tirupattur Collector K Darpakaraj evaluated medical services provided at Attanavur Primary Health Centre in Yelagiri Hills panchavat, Tirupattur.

Mekedatu dam not feasible, needs nod from centre and TN: Min

CHANGE OF NAME & D.O.B I, Ex.No.14569118-L / Hay / SIVAJI S, residing at Door No.7/21,

Magamadhupettai, Mettukudisai, Mullandiram Post, Ami Taluk, Tiruvannamalai District, Tamil Nadu-632512, declare that my wife's name is wrongly recorded as S JOTHY LAKSHMI instead of B JOTHILAKSHMI

and Date of Birth as 12.09.1975 instead of 24.04.1980 in my Army Service Records and I want to correct the same. If anyone got objection on this same, they may write letter to Army office. - Ex.No.14569118-L / Hav /

SIVAJI S

Dushadhi The Pharmaceutical Corporation I.M.) Kerala Ltd. Kuttanellur, Thrissur-14, Kerala Ph: 0487- 2459841, 2459807 E-mail: purchase@oushadhi.org P/146/2023-24 E-TENDER NOTICE

Date: 1.2.2024 E-Tenders are invited for the supply of I) Raw Materials and II) Containers & Packing Materials for the period 1" April 2024 to 30" September 2024. Tenders can be downloaded from the website www.etenders.kerala.gov.in. For more details, please visit our website www.oushadhi.org or contact our Purchase Division at Kuttanellur. (Sd/-) Managing Director

Centre for Distance and Virtual Learning UNIVERSITY OF HYDERABAD (A Central University established by an Act of Parliament in 1974) UGC-AICTE-DEC Joint Committee Approved Courses

Institution of Eminence ADMISSION NOTIFICATION **DISTANCE EDUCATION COURSES - 2024**

Applications are invited from eligible candidates for admission to the one-year Diploma Programmes offered through distance/online mode for the year 2024 Online registration and Prospectus-2024 can be downloaded from www.cdvl.uohyd.ac.in

For further details contact: cdvl.uoh@gmail.com Mob.: 9177618205, Ph.: 040-24600264.

DIRECTOR



Bank of Baroda

REQUIREMENT OF MOBILE ATM VAN (1 NO) TO OPERATE IN MADURAI

Bank of Baroda Regional Office, Madurai invites sealed tenders in two bid system from applicants for deployment of Mobile ATM Van (1 No) to operate in Madural and neighboring districts. For details and application form please visit the tenders section of

Bank's website - https://www.bankofbaroda.in/tenders/zonalregional-offices Last Date for submission of offers is 21.02.2024 up to 4.00 PM.

The Bank reserves its right to accept or reject any offer without

assigning any reason thereof. Date: 01.02.2024

Place: Madurai

100

Regional Manager



SIPCOT SPECIAL ECONOMIC ZONE **ENVIRONMENTAL CLEARANCE**

Environmental Clearance has been obtained for the proposed Development of Special Economic Zone at A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu from the State Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide Letter No. SEIAA-TN/F.No.9898/8(b)/EC.No:1001/2023 dated 10.01.2024.

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.

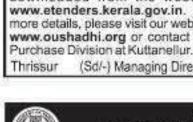
DIPR / 99 / Display / 2024

MANAGING DIRECTOR

All the news. In just a click. Log to www.newindianexpress.com



100



Government of Tamil Nadu HIGHWAYS DEPARTMENT COIMBATORE CONSTRUCTION & MAINTENANCE CIRCLE

TENDER NOTICE

Tender Notice No. 30/2023-24/HDO, Dated: 29.01.2024

For and on behalf of the Governor of Tamil Nadu, Percentage tender through online only will be received up to 19.02.2024 Afternoon 3.00 Hours by the Superintending Engineer (H), C&M, Colmbatore Circle for Road Safety Work(CRIDP) and CRIDP-2023-24 pertaining to Pollachi (H) C&M Division - 1 Work and Udhagamandalam(H) C&M Division - 1 Work.

Details of works, approximate value of works, EMD, availability of tender documents and all other details will be available in the Government website https://tntenders.gov.in. from 02.02.2024. If any Changes/Corrections are made in the tender, it will be published in the above Government website only. Superintending Engineer (H),

DIPR/508/TENDER/2024

C&M, Coimbatore Circle.



(CONSTRUCTION & MAINTENANCE) CIRCLE

TENDER NOTICE

For and on behalf of the Governor of Tamil Nadu, Percentage tender through online under Two Cover / Single Cover System will be received upto 21.02.2024, 15.00 hours by the Superintending Engineer (H), C&M, Villupuram Circle for CRIDP 2023-24 (Road Safety Works) (VPM-130, 131 & 132) Three works for for Villupuram, Cuddalore &

Details of works, approximate value of works, EMD (EMD through online payment Gateway of the Portal only) availability of tender document and all other details are available from 05.02,2024 onwards in the Government website https://tntenders.gov.in. If any

DIPR/545/TENDER/2024

SUPERINTENDING ENGINEER (H) C&M CIRCLE, VILLUPURAM

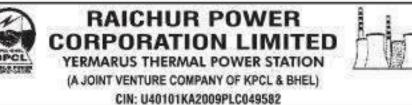


KERALA WATER AUTHORITY e-TENDER NOTICE Tender No: E-Tender No 282/2023-24/SE/PHC/CHN

JJM-WSS to Aikkaranadu, Mazhuvannoor & Kunnathunadu Panchayath - LSGD roads restoration for distribution networks in Mazhuvannoor, Kunnathunadu and Aikkaranadu Panchayaths - General Civil Work. EMD: Rs. 5,00,000/-; Tender fee: Rs. 19518; Last Date for submitting Tender: 19-02-2024, 03:00 pm. Phone: 0484-2360645 Website: www.kwa.kerala.gov.in, www.etenders.kerala.gov.in

KWA-JB-GL-6-2234-2023-24

Superintending Engineer, PH Circle, Kochi



Date: 25.01.2024 No. EE(MSP)/YTPS/23-24/152 BRIEF TENDER NOTIFICATION

RPCL, invites bids from reputed agencies for the following E-tenders for YTPS through e-Procurement www.kppp.karnataka.gov.in Brief Details of Goods: Procurement of 1) KPCL/2023-24/IND0718/CALL-3 Apron feeder drive sprockets for CHP. 2) KPCL/2023-24/IND0576/CALL-2 Wire wound resistor and reactors. 3) KPCL/2023-24/IND 0187/CALL-2 Submersible motors for PWS. 4) KPCL/2023-24/IND0802 Sulphuric acid. 5) KPCL/2023-24/IND08699/CALL-3 Sludge Pump. 6) KPCL/2023-24/SE0083/CALL-2 Engaging the services of Medical and Paramedical staff in shift duties to YTPS for a period of two years. Last date for Bid submission; For Sl. No. 1; 13.02,2024, 16.00 Hrs. For Sl. No. 2 & 3; 12.02,2024, 16.00 Hrs. For St. No. 4: 02.02.2024, 16.00 Hrs. For St. No. 5: 09.02.2024, 16.00 Hrs. For St. No. 6: 09.02.2024, 15.00 Hrs. Further details can be had from the Executive Engineer (MSP), Mobile: 94806 82892. E-mail: eemsprpcl@gmail.com (for Sl. No. 1 to 5)/ Deputy Medical Superintendent, Mobile: +91 94806 82903 (For Sl. No. 6), RPCL, YTPS, Yeramarus-584134, Raichur Dist.



Vridhachalam (H) C&M Divisions.

Changes / Corrections in the tender, it will be published in the above Government website only.

GOVERNMENT OF INDIA

EX-SERVICEMEN CONTRIBUTORY HEALTH SCHEME STATION HEAD QUARTER (ECHS CELL), SULUR

PHONE:0422-2683171, E-mail: sanchar.5@gov.in **EMPLOYMENT NOTICE**

1.ECHS invites applications to engage following Medicaland Non-Medical Staff on contractual basis in ECHS Polyclinic, Erode for a period of one year renewable for additional period of one year / till attaining the maximum age subject to performance of candidates/ other conditions according to the criteria as mentioned against each post.

Appointment	Minimum Qualification	No of Vac	Fixed Remuneration
Officer -In -Charge Polyclinic	Graduate (Post reserved for retired defence officers only)	01	75,000/-
Medical Officer	MBBS(minimum 05 years of work experience after internship)	01	75,000/-
Driver	Education-8 class, Class I MT driver (Armed Forces), Posses a civil driving licence (minimum 05 years of experience as driver)	01	19,700/-

2.For Terms & Conditions, Application Form & Remuneration. Kindly see our website www.echs.gov.in. For additional details, please contact Station Headquarter (ECHS Cell), Sulur at telephone No 0422-2683171 & email ID sanchar.5@gov.in. Also

3.Last date of receipt of application as per format given at our website Application as per requisite format along with self-attested photocopies of testimonials in support of Educational Qualifications and Work Experiences will be submitted to Officer-In-Charge, Station Headquarter (ECHS Cell), Air Force Station Sulur, Coimbatore — 641401 by 22 Feb 24 in duplicate. Any application received after 22 Feb 24 will not be accepted.

on 29 Feb 24for the interview to be held between 10:00 to 18:00 Hrs. Candidates must bring all the original certificates/ mark sheets/ degree of 10th / Matric, 10+2 & graduation/ post-graduation/ diploma/ course, work experience and discharge book, PPO, service record and 02 PP size colour photographs at the time of interview. No TA/DA is admissible. Only candidates meeting the Qualitative Requirements may apply.

SMART CITY THIRUVANANTHAPURAM LIMITED CIN U75302KL2017SGC05027 **E-TENDER NOTICE** E-Tenders are invited for the following projects of Smart City Thiruvananthapuram Limited E-Tender ID Name of Project Beautification works Kazhakuttom Railway Station, Technopark, adjoing areas-Upgrading to Smart Road by providing foot path to Technopark, 2024_SCTLT_647437_1 Rs.4.17,13,381/- 03 Feb 2024 UG ducting conduits, Solar Street lights, CC camera surveillance to Sreekariyam Kazhakuttom via Kulathur road. 2024 SCTLT 651831 1 Rs.1,77,000/- 07 Feb-2024 2 Patch Work at RKV Road Date and Time of Opening Price Bid: To Be Intimated Separately to Technically Qualified Bidders by e-mail. All the RFP documents and details are available on the e-Procurement Website. Bids are only accepted online on the Website https://etenders.kerala.gov.in

(Sd/-), CHIEF EXECUTIVE OFFICER, SMART CITY THIRUVANANTHAPURAM Ltd

EAST OF

3. Assistant CFO / Senior Manager (Finance) 4. Manager (Finance) 5. Company Secretary

HLL Biotech Limited, a PSU under Ministry Health & Family Welfare invites application for the positions mentioned below: 1. Chief Financial Officer (CFO) / DGM (Finance) 2. Deputy CFO / AGM (Finance)

6. Deputy CEO 7. Personal Secretary to CEO 8. Head - Engineering 9. Head - HR 10. Hindi Translator For more details : www.hllbiotech.com

Last date for applying: 15.02.2024 **HLL Biotech Limited,**

Integrated Vaccine Complex, S.No. 192 & 195, Melaripakkam Post, Thirukazhukundram Tk, Chengalpattu - 603 001. Tel: 044 - 27421449

WEST OF

PUBLIC NOTICE

My Client. SMALL INDUSTRIES DEVELOPMENT BANK OF INDIA, rep. by its Deputy General Manager, Overseas Towers, Door No.756 L, Anna SALAI (OPP TVS), CHENNAI - 600 002 is intend to sanction credit facilities to M/s. MEFCO ENGINEERS PRIVATE LIMITED, a Private Limited Company rep. by its Director Mr.S.PRABHURAM, Son of P.S.Shanmugam, having their registered Office at Fountain Plaza Building, Door No.324, Pantheor Road, Egmore, CHENNAI-600 008 against the security of the under mentioned properties. The Security property is belonged to the above Company by virtue of SALE DEED dt.01.12.2023 in Registration No.2299 of 2023, registered on the file of the SRO, Sirupakkam. On scrutiny of the title documents it is found that the schedule properties are ancestral in nature and no parental documents prior to 2012 are available with the previous sellers o the under mentioned properties namely 1) Manjaan son of Periasamy Mesthiri and others namely 2) Arumugam 3) Periasamy 4) Anbazhagan all are sons of Krishnasamy Servai and 5) Vaiyapuri son of Chinnu Mesthiri and M/s.SPEED BOOMI PROMOTERS.

Therefore, this Public Notice is issued calling upon the Public in General that any person or persons having any right, title, claim, share or interest by way of inheritance in respect of the under mentioned property should send their claims in writing to the under signed or to my abovenamed clien along with genuine documentary evidence in support of their claim thereof within SEVEN DAYS of publication of this notice, failing which, the claims in any way shall be deemed to be waived. Any claim after the stipulated period will not be entertained for any reason whatsoever. Schedule of property

In Cuddalore District, Veppur Taluk, Viruthachalam Registration District, Sirupakkam Sub Registration District, in Mangalore Village.... Item No.1: As per Patta No. 13261 in Ayan Punjai land comprised in S.F.No. 11/1, P.Hec.0.34.50 is equal to 85 cents in entirety is bounded as follows:- (as shown in the Plan)

BOUNDARIES

I	Land comprised in S.F.No.10 Land comprised in S.F.No. 11/2 land comprised in S.F.No.11/3A land comprised S.F.No.12								
I	Item No.2: As per Patta No. 13261 in Ayan Punjai land comprised in S.F.No. 11/2, P.Hec.0.29.50 is equal to 73 cents in entirety is bounded as follows:- (as shown in the Plan)								
l	BOUNDARIES								

NORTH OF EAST OF **SOUTH OF** WEST OF Land comprised in S.F.No. 10 and 11/4 Land comprised in S.F.No.10 land comprised in S.F.No.11/4 land comprised S.F.No.11/1 Item No.3: As per Patta No. 13261 in Ayan Punjai land comprised in S.F.No.11/3A, P.Hec.0.51.00 is equal to 1 acre 26 cents in entirety is bounded as follows:- (as shown in the Plan)

BOUNDARIES

NORTH OF	EAST UF	SOUTH OF	MF21 OF
Land comprised in S.F.No. 11/1	Land comprised in S.F.No. 11/4	land comprised in S.F.No. 11/3B and S.F.No.397	land comprised in S.F.No.12
	WI 90	24	

Item No.4: As per Patta No. 13261 in Ayan Punjai land comprised in S.F.No.11/4, P.Hec.0.99.00 is equal to 2 acre 44.5 cents in this on the Western side, P.Hec.0.93.50 is equal to 2 acre 31 cents in entirety is bounded as follows:- (as shown in the Plan)

NORTH OF	EAST OF	SOUTH OF	WEST OF
	Remaining Land comprised in S.F.No.11/4 (belonged to Speed Boomi Promoters)	· ·	land comprised in S.F.No.11/3A and S.F.No. 11/2

Item No.5: As per Patta No. 13262 in Ayan Punjai land comprised in S.F.No. 12/2, P.Hec.O.30.00 is equal to 74 cents, in this on the Eastern side, **P.Hec.0.19.50** is equal to **48 cents in entirety** is bounded as follows:- (as shown in the Plan)

NORTH OF	EAST OF	SOUTH OF	WEST OF
and comprised in S.F.No. 13	Land comprised in S.F.No.11	land comprised in S.F.No. 12/11 and S.F.No. 12/4	Remaining Land comprised in S.F.No. 12/2 (belonged to Speed Boomi Promoters)

Item No.6: As per Patta No. 13262 in Ayan Punjai land comprised in S.F.No.397/2, P.Hec.0.79.00 is equal to 1 Acre 95 cents, in this on the Western side, P.Hec.O.75.80 is equal to 1 Acre 87 cents in entirety is bounded as follows:- (as shown in the Plan)

Land comprised in S.F.No. 11 Remaining Land comprised in land comprised in S.F.No.397/3, Land comprised in S.F.No.397/2 (belonged to Speed S.F.No.397/4 and S.F.No.397/5 Recomi Prometers)	WEST	SOUTH OF	EAST OF	NORTH OF
Double Fromoters)	'I '	·	ı .	Land comprised in S.F.No. 11

the usual cart tracks, pathway and all other Easementary rights provided for the above property. A.Ravindran, B.A., B.L., Advocate & Notary Chennai/Tirupur 19, Police Line II Street, Valipalayam, Tirupur-641 601 Mobile No.93455 62462, 98422 62462

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GOVERNMENT OF TAMILNADU VILLUPURAM HIGHWAYS

TENDER NOTICE NO.45/2023-2024/HDO/DATED:27.01.2024

MINISTRY OF DEFENCE

Appointment	Minimum Qualification	No of Vac	Fixed Remuneration
Officer -In -Charge Polyclinic	Graduate (Post reserved for retired defence officers only)	01	75,000/-
Medical Officer	MBBS(minimum 05 years of work experience after internship)	01	75,000/-
Driver	Education-8 class, Class I MT driver (Armed Forces), Posses a civil driving licence (minimum 05 years of experience as driver)	01	19,700/-

approach concerned ECHS Polyclinic for details. Preference will be given to the Ex-servicemen.

4.Interview Date, Timing & Venue Candidate must reach Station Headquarter ECHS, Air Force Station Sulur, Coimbatore — 641401 at **09:00 Hrs**

BOUNDARIES

30.01.2024 (Panel Advocate for SIDBI)

All the above six items annexed together totally measuring P.Hec.3.03.80 is equal to 7 Acres 50 Cents with all rights of ingress and egress in

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.



Address of the Client

TEST REPORT

Page: 1 of 1

ULR

1 TC1231024000046029F

Report No.

FHECS/AP/052/230924

Sample ID No.

Received Date

Completed On

Sample quantity * NA

Report Date

:230924165

1 23/09/2024

: 30/09/2024

: 30/09/2024

Sampling Date : 23/09/2024

Commenced Date: 23/09/2024

Group

: kallakurichi

1 M/s. SIPCOT

1 Atmospheric Pollution

Sample Name

: Ambient Air(All)

Sample Mark

: Near Project area

Sample Reference

:NA

Sample Drawn By

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

Sample Location

Environmental Condition

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

S.N	No. Test Parameters	Units	Results	Test Method	\$44.00mm	
Dis	cipline : Chemical			Test steened	NAAQ Star	ndards : 2009
1	Assenie	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	Em/gn	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Henzene-AAQ	µg/m3	BLQ (LOQ: 0.1) IS 5182 Part 11: 2006	5 (Annual)	F 1 1 1
1	Benzo (a) pyrene-AAQ	ng/m ^y	BLQ (LOQ: 0.1)	IS: 5182 Part 12: 2004	J (Annual)	5 (Annual)
5	Ammonta as NH3	$\mu g/m^g$	6.41	15 5182 (Part 25) 2018	400 (24 hours)	I (Annual)
6	Carbon Monoxide (CO)	mg/ m²	BLQ(LOQ 0.05)	IS 5182 (Part 10). Clause 4 1999	4 (1 hours)	2 (8 hours)
1	Nitrogen dinxides as NO2	µg/m³	24.93	IS 5182 (Part 6) 2006	80 (0.0)	
	Ozone as O3	µg/m³	10.27	IS 5182 (Part 9) 1974	80 (24 hours)	40 (Annual)
10	Particulate matter (Size less than 10 µm)	μ <u>g</u> /m ³	49.61	IS 5182 (Part 23) 2006	180 (1 hours) 100 (24 hours)	100 (8 hours) 60 (Annual)
0	Particulate matter (Size less than 2.5 µm)	Fg/m ³	18.05	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
1	Sulphur dioxide as SO2	μg/m ³	8.44	AP CARD OF THE PARTY OF THE PAR		
3	1.ead	TAINED THE	201	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
o gove	:- BLQ - Below the Limit of Quantilic:	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue	I (24 hours)	0.5 (Annual)

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

mg/m^Milligrams per cubic meter, ng/m^Nanograms per cubic meter.

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

End of Report



D.Anusuya Lah Manager Authorized Signatory

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

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

TEST REPORT

Page: 1 of 1

Report No.

1 HECS/AP/052/230924/N

Sample ID No.

: 230924165

Sampling Date

: 23/09/2024

Address of the Client

Name of the Client

z kallakurichi

: M/s. SIPCOT

: Atmospheric Pollution

Received Date

: 23/09/2024

Sample Name

Group

* Ambient Air(All)

Commenced Date: 23/09/2024

Sample Mark

: Near Project area

Completed On

: 30/09/2024

Sample Reference

Report Date

130/09/2024

Sample Drawn By

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

Sample quantity 2 NA

Sample Location Environmental Condition

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

Sampling Method & Plan

:1S 5182 Part 5 & Part 14

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Ch	emical		100	The state of the s
1 TVOC		ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No::01 Issue Date:02:07 2020

e:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, ppmy- Parts per million by Volume. ""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

ULR

: TC1231024000046030F

Report No.

* HECS/AP/053/230924

Sample ID No.

: 230924166

Sampling Date

Received Date

Completed On

Sample quantity 1 NA

Report Date

Commenced Date: 23/09/2024

: 23/09/2024

23/09/2024

: 30/09/2024

: 30/09/2024

Address of the Client

Name of the Client

: M/s. SIPCOT : kallakurichi

Group

[‡] Atmospheric Pollution

Ambient Air(All)

Sample Name

: Kanaiyar

Sample Maric

:NA

Sample Reference Sample Drawn By

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

* 67.4

Sample Location Environmental Condition

: Temperature (°C): 32.0

Humidity (%) : 56.0

Sampling Method & Plan

:IS 5182 Part 5 & Part 14

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Stand	dards : 2009
Discip	line : Chemical					
1	Arsenic	mg/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	pg/m3	BLQ (LOQ: 0.1) IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	15 : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Animonia as NH3	pg/m ⁴	5.46	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	µg/m³	21.28	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m²	13.63	1S 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
90	Particulate matter (Size less than 10 µm)	µg/m³	48.92	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Seze less than 2.5 µm)	μg/m³	20.08	IS 5182 (Pari 24) 2019	60 (24 hours)	40 (Anoual)
11	Sulphur dioxide as SO2	µg/m³	13.74	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Leat	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/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

Chonna Di

D.Anusuya Lab Manager

Authorized Signatory

The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization.
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 The test results relate only to the test items.

HECS-G/Q/FMT/49

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Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax: 42985500

E-mail: labsales@hecs.in

Laboratory Services Division

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TEST REPORT

Page: 1 of 1

Report No.

1 HECS/AP/053/230924/N

Sample ID No.

:230924166

Sampling Date

Received Date

Completed On

Sample quantity 1NA

Report Date

± 23/09/2024

: 23/09/2024

: 30/09/2024

: 30/09/2024

Commenced Date: 23/09/2024

Address of the Client

Name of the Client

t kallakurichi

: M/s. SIPCOT

Group

2 Atmospheric Pollution

Sample Name

2 Ambient Air(All)

: Kanaiyar

Sample Mark Sample Reference

:NA

Sample Drawn By

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

Sample Location

: NA

Environmental Condition

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

Sampling Method & Plan

:IS 5182 Part 5 & Part 14

S.No.	Test Parameters	Units	Results	Test Method
Discipline	: Chemical			
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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TEST REPORT

Page: 1 of 1

ULR

: TC1231024000046031F

Report No.

1 HECS/AP/054/230924

Sample ID No

: 230924167

Sampling Date

Received Date

: 23/09/2024

: 23/09/2024

Commenced Date: 23/09/2024

Address of the Client

Name of the Client

3 M/s. SIPCOT 2 kallakurichi

Geoup

: Atmospheric Pollution

: Ambient Air(All)

Sample Name

: Ulundurpettai

Sample Mark

INA

Sample Reference Sample Drawn By

Sample Location

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

Completed On Report Date

Sample quantity : NA

: 30/09/2024 130/09/2024

: Temperature (°C): 32.0

1 Humidity (%): 56.0

Environmental Condition Sampling Method & Plan

:IS 5182 Part 5 & Part 14

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Stand	lards : 2009
Discip	line : Chemical					
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
ž.	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/041 Issue No. 01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
1	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)	15 : 5182 Part 12: 2004	T (Annual)	1 (Annual)
5	Ammonia as NH3	hB/m _p	8.91	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	µg/m³	20.60	15 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	12.77	1S 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours
9:	Particulate matter (Size less than 10 µm)	µg/m³	53.84	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	μg/m³	22,16	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	14.08	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	pg/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/m!- 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.



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TEST REPORT

Page: 1 of 1

Report No.

1 HECS/AP/054/230924/N

3 M/s. SIPCOT Sample ID No.

: 230924167

Sampling Date

: 23/09/2024

Address of the Client

Name of the Client

z kallakurichi

Group

3 Atmospheric Pollution

Received Date : 23/09/2024

Sample Name

3 Ambient Air(All)

Commenced Date: 23/09/2024

Sample Mark

: 30/09/2024

: Ulundurpettai

Completed On

1 30/09/2024

Sample Reference

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

Report Date

Sample quantity \$NA

Sample Drawn By Sample Location

* Temperature (°C): 32.0

Humidity (%): 56.0

Environmental Condition Sampling Method & Plan

:IS 5182 Part 5 & Part 14

S.No.	Test Parameters	Units	Results	Test Method
Discipline	t : Chemical			
1 T	VOC	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

TEST REPORT

Page: 1 of 1

ULR

: TC1231024000046032F

Report No.

* HECS/AP/055/230924

Sample ID No

Report Date

:230924168

Sampling Date

Received Dute : 23/09/2024

Commenced Date: 23/09/2024

Completed On : 30/09/2024

Sample quantity * NA

1 23/09/2024

: 30/09/2024

Address of the Client

z kallakurichi

M/s. SIPCOT

Group

2 Atmospheric Pollution

Sample Name

2 Ambient Air(All)

Sample Mark

: Pallidangal

:NA

Sample Reference

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

Sample Drawn By Sample Location

2 NA

Environmental Condition

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

pling Method & Plan

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Stand	tards : 2009
Discip	dine + Chemical			AND AND THE PARTY OF THE PARTY		
I.	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	Benzere-AAQ	µg/m3	BLQ (LOQ; 0.1) IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	15 : 5182 Part 12: 2004	1 (Amual)	t (Annual)
5	Ammonia as NR3	µg/m³	7.30	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Amual
0	Carbon Monoxide (CO)	mg/ m ⁴	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m²	18.53	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	pg/m²	11.92	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours
9	Particulate matter (Size less than 10 µm)	μg/m³	50.37	IS 5182 (Part 23) 2006	160 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	p.g/m ³	19.82	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide us SO2	μg/m ³	9.10	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Leat	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/m5-Nanograms per cubic meter.

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

""End of Report"



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TEST REPORT

Page : 1 of 1

Report No.

1 HECS/AP/055/230924/N

Sample ID No

: 230924168

Sampling Date

: 23/09/2024

Address of the Client

Name of the Client

: kallakurichi

‡ M/s. SIPCOT

Group

† Atmospheric Pollution

Received Date : 23/09/2024

Sample Name

* Ambient Air(All)

Commenced Date: 23/09/2024

Sample Mark

: Palfidangai

Completed On

130/09/2024

Sample Reference

INA

Report Date

1 30/09/2024

Sample Drawn By

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

Sample quantity INA

Sample Location

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

Environmental Condition Sampling Method & Plan.

:1S 5182 Part 5 & Part 14

S.No.	Test Parameters	Units	Results	Test Method
Discipline :	Chemical	7		
i TVC	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, ppmy-Parts per million by Volume. ""End of Report""



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TEST REPORT

Page: 1 of 1

ULR

: TC1231024000046033F

Report No.

* HECS/AP/056/230924

Sample ID No

Report Date

1230924169

Sampling Date

Received Date 1 23/09/2024

Commenced Date: 23/09/2024

Completed On : 30/09/2024

Sample quantity INA

± 23/09/2024

: 30/09/2024

Address of the Client

Name of the Client

* M/s. SIPCOT : kallakurichi

Group

Atmospheric Pollution

Sample Name

Ambient Air(All)

Sample Mark

: Idaikkal

Sample Reference

Sample Drawn By

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

Sample Location

Environmental Condition

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

S.No	Test Parameters	Units	Results	Test Method	NAAQ Stand	lards : 2009
Disci	pline : Chemical					
	Assenie	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)
1	Henzene-AAQ	pg/m3	BLQ (LQQ: 0.1) IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
ė.	Benzo (a) pyrene AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	I (Annual)	l (Annual)
5	Ammonia as NH3	μg/m²	8.97	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	μg/m³	26.06	1S 5182 (Part 6) 2006	80 (24 hours)	-40 (Annual)
8.	Ozone as O3	μg/m²	12.80	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
,	Particulate matter (Size less than 10 µm)	pg/m ^s	55.19	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	22.62	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	10.66	IS 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	U(24 hours)	0.5 (Annual)

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

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



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TEST REPORT

Page: 1 of 1

Report No.

3 HECS/AP/056/230924/N

Sample ID No.

: 230924169

Sampling Date

± 23/09/2024

Address of the Client

Name of the Chent

2 kallakurichi

: M/s. SIPCOT

Gremp

* Atmospheric Pollution

Received Date

: 23/09/2024

Sample Name

: Ambient Air(All)

Commenced Date: 23/09/2024

Completed On

: 30/09/2024

Sample Mark Sample Reference : Idaikkal

Report Date

130/09/2024

Sample Drawn By

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

Sample quantity \$NA

Sample Location

INA

Environmental Condition

: Temperature (°C): 32.0 IS 5182 Part 5 & Part 14

Humidity (%): 56.0

Sampling Method & Plan

S.No.	Test Parameters	Units	Results	Test Method
Discipline :	Chemical	W = =	*	iv -
1 TVC	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

TEST REPORT

Page: 1 of 4

ULR : TC1231024000046173F Report No. : HECSL/WT/074/230924

: 23/09/2024

: 30/09/2024

30/09/2024

Sample ID No 230924171

Received Date

Completed On

Report Date

Sampling Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity : 1 Litres

Address of the Client : kallakurichi

Group : Water

Sample Name Ground Water (All)
Sample Mark Near Project Area

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

M/s. SIPCOT

Sample Location : NA

Environmental Condition Temperature (°C): 28.0 | Humidity (%): 50.0

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

5.No.	Test Parameters	Units	Results	Test Method	15 10500	: 2012
					Acceptable Limits (Max)	Permissible Limits (Max)
Disci	pline : Chemical			vi—		
I	Ammonia as NH3	mg/l	BLQ(LOQ:0:02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2)	Amonic Surface Active agents as MHAS	mg/I	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1)
3	Bi carbonate	mg/I	180.0	1S 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	Pagm	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	64,13	1S 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	249.85	IS 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/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved uxygen	mg/I	6.5	1S 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA

Chennol Go 032

D.Anusuya Lab Manager

Authorized Signatory

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TEST REPORT

Page: 2 of 4

ULR Report No. : TC1231024000046173F

Sample ID No

: HECSL/WT/074/230924

: 230924171

Sampling Date

Completed On

Report Date

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity 1 Litres

-23/09/2024

: 30/09/2024 30/09/2024

Address of the Client

Name of the Client

: kallakurichi

: M/s. SIPCOT

Group

: Water

Sample Name

Ground Water (All)

Sample Mark

: Near Project Area

Sample Reference

: NA

Sample Drawn By:

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

Sample Location

Environmental Condition: Sampling Method & Plan

: Temperature (°C): 28.0 | Humidity (%): 50.0

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	ES 10500	: 2012
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	μS/cm	1232.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	T\gm	0.41	APHA 23rd edition (Method 4500F- B , D): 2017	1.0	1.5
15	Iron as Fe	Pgm	0.071	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	Pym	31.59	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	30	100
17	Nitrate as NO3	ng/l	7.69	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relexation
18	Percent Sodium	%	46.64	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/I	BLQ(LOQ:0.00 1)	1S 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassnim as K	mg/l	9.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
22	Residual Sodium. Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	3.10	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/I	122,0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA



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TEST REPORT

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity 1 Litres

Page: 1 of 4

ULR

: TC1231024000046173F

Report No.

3 HECSL/WT/074/230924

Sample ID No

: 230924171

Sampling Date

Completed On

Report Date

: 23/09/2024

: 30/09/2024

30/09/2024

Address of the Client

Name of the Client

M/s. SIPCOT : kallakurichi

: Water

Ground Water (All)

Sample Name Sample Mark

Group

: Near Project Area

Sample Reference

: NA

Sample Drawn By

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

Sample Location

Environmental Condition Sampling Method & Plan Temperature (°C): 28.0 | Humidity (%): 50.0

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	15 1050	0:2012
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO4	mg/l	74.64	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)	200	400
26	Total alkalinity as CaCO3	mg/l	180.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/I	691.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/T	BLQ(LOQ:2.0)	15 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO4	mg/l	0.099	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	0.030	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO3	mg/l	290.0	1S 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	Ngm	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/I	BLQ (LOQ: 0.01)	USEPA 200.8 1994	0.05	No relaxation
37	Copper	Nga	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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TEST REPORT

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ULR

: TC1231024000046173F

Report No.

HECSL/WT/074/230924

Sample ID No.

: 230924171

Sampling Date

Received Date

Completed On

Report Date

: 23/09/2024

: 23/09/2024

: 30/09/2024

30/09/2024

Commenced Date: 23/09/2024

Sample quantity : 1 Litres

Address of the Client

: kallakurichi

M/s. SIPCOT

Group

Water

Sample Name

Ground Water (All) : Near Project Area

Sample Mark

Sample Reference Sample Drawn By : NA

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

Sample Location

: NA

Temperature (°C): 28.0 | Humidity (%): 50.0

Environmental Condition

S.No.	Test Parameters	Arameters Units B	Results	Test Method	IS 10500	1:2012
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8: 1994	0.01	No relaxation
39	Manganese	ng/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	0.1	0.3
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 20E8 : 1994	0.001	No relaxation
41	Nickel	mg/l	BLQ (LOQ: 0.61)	USEPA 200.8: 1994	0.02	No relaxation
42	Selenium	mg/I	BLQ (LOQ: 0.005)	USEPA 200.8: 1994	0.01	No relaxation
43	Zinc	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	5	15

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

End of Report



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TEST REPORT

Page: 1 of 1

Report No.

3 HECSL/WT/074/230924/N

Sample ID No

: 230924171

Sampling Date

- 23/09/2024

Address of the Client

Name of the Client

: kallakurichi

2 M/s. SIPCOT

Received Date

: 23/09/2024

Sample Name

Group

Ground Water (All)

Commenced Date: 23/09/2024

Sample Mark

: Near Project Area

Completed On ; 30/09/2024

Sample Reference

:NA

: Water

Report Date

30/09/2024

Sample Drawn By

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

Sample quantity : 1 Litres

Sample Location

: NA

STREET, THE SECOND SECOND

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 50.0

0.0

umbac demontal - 1 PIELES

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

S.No.	Test Parameters	Units	Results	Test Method
Disciplin	e : Chemical		10.	
1 1	lexavulent Chromium as Cr6+	Pgm	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003 (Diphenyl Carbazide method)

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



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TEST REPORT

Page: 1 of 4 ULR TC1231024000046174F

Report No - HECSL/WT/075/230924

Sample ID No. : 230924172

Sampling Date 23/09/2024

Address of the Client : kallakurichi

Water Group

Sample Name Ground Water (All) Sample Mark : Ulundurpettai

Sample Reference : NA

: M/s.Hubert Enviro care Systems (P) 1.td. Sample Drawn By

2 M/s. SIPCOT

NA Sample Location

Environmental Condition : Temperature (°C): 28.0 | Humidity (%): 50.0

Received Date = 23/09/2024 Commenced Date: 23/09/2024 Completed On 30/09/2024 30/09/2024 Report Date

Sample quantity 1 Litres

S.No.	Test Farameters	Units	Results	Test Method	15 10500	: 2012
					Acceptable Limits (Max)	Permissible Limits (Max)
Discip	pline : Chemical					
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	1S 3025 Part 34 Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
1	Amonic Surface Active agents as MBAS	Fam	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B _ C): 2017	THE PROPERTY OF THE PROPERTY O	
3	Bi carbonate	mg/I	230.0	IS 3025 Part 51: 2001	NA	NA
1	Biological Oxygen Demand (BOD)@ 27°C For 3 days	Typm	BLQ(LOQ:2.0)	15 3025 Part 44: 1991	NA	NA
5	Boron as B	mg/l	BLQ(I,OQ:0.1)	IS 3025 Part 57 -Curcumin Method 2021	0.5	2.4
n	Calcium as Ca	mg/l	68.14	1S 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/I	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA.	NA
ы	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
ф	Chloride as CI	mg/l	215.56	1S 3025 Part 32: 1988 t Argentometric Method)	250	1000
101	Colour	Hazen units	BLQ(LOQ:1.0)	JS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.7	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA

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Lab Manager

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TEST REPORT

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ULR

: TC1231024000046174F

Report No.

: HECSL/WT/075/230924

Sample ID No

: 230924172

Report Date:

Sampling Date

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Completed On : 30/09/2024

Sample quantity : 1 Litres

: 23/09/2024

30/09/2024

Address of the Client

Name of the Client

: kallakurichi

: M/s. SIPCOT

Group

: Water

Sample Name

: Ground Water (All)

Sample Mark

: Ulundurpettai

Sample Reference

: NA

Sample Drawn By

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

Sample Location

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 50.0

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

S.No.	Test Parameters	L'aire	Results	Test Method	IS 10500	: 2012
	MO				Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	μ\$/em	1178.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	Pgm	0.43	APHA 23rd edition (Method 4500F+ B., D): 2017	1.0	1.5
15	from as Fe	mg/I	0:041	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	Bgm	36.45	IS 3025 Part 46: 1994 (Valumetric 30 Method using EDTA)		100
17	Nitrate as NO3	mg/l	14.37	APHA 23rd edition (Method 4500 NO3B): 2017	Contract of the Contract of th	
18	Percent Sodium	%	41.34	HECS/WT/SOP/002:: 2019 NA		NA
1.9	pH at 25°C	22	7.94	15 3025(Part 11) : 2022 (6.5-8.5 Electrometric method)		No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.00 1)	JS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	7.0	1S 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA.	NA
22	Residual Sodium Carbonate	Typorti	BLQ(LOQ:1.0)	IS 11624; 2019	NA.	NA
2.3	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	2.58	IS 11624 : 2019	9 NA	
24	Sodrum as Na	Figm	105.0	1S 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA



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Name of the Client

Environmental Condition



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TEST REPORT

Page: 3 of 4

ULR : TC1231024000046174F Report No. 1 HECSL/WT/075/230924

Sample ID No : 230924172 Sampling Date : 23/09/2024

: M/s, SIPCOT

Address of the Client : kallakurichi

: Water Group Sample Name Ground Water (All) Sample Mark : Ulundurpettai

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

Sample Location

: Temperature (°C): 28.0 | Humidity (%): 50.0 Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 23/09/2024 Commenced Date: 23/09/2024 Completed On : 30/09/2024 Report Date : 30/09/2024 Sample quantity : 1 Litres

S.No.	Test Parameters	Almita.	Results	Test Method	IS 1050	0:2012
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO4	mg/I	64.27	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)	200	400
26	Total alkalinity as CaCO3	mg/t	230.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	672.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	nag/1	BLQ(LOQ:2.0)	15 3025 (Part 17): 1984	NA.	NA
29	Phosphate as PO4	mg/l	0.12	IS 3025 Part 31 Sec 1: 2022 (NA Stannous Chloride method)		NA
30	Phusphorous as P	mg/l	0.036	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA NA	NA
31	Total hardness as CaCO3	mg/l	320.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/I	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	Paper	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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TEST REPORT

Page: 4 of 4

ULR : TC1231024000046174F Report No. HECSL/WT/075/230924

: 30/09/2024

130/09/2024

Sample ID No : 230924172

Sampling Date : 23/09/2024

Received Date : 23/89/2024

Commenced Date: 23/09/2024

Sample quantity - 1 Litres

Completed On

Report Date

Address of the Client : kallakurichi

Group Water Sample Name

: Ground Water (All) Sample Mark : Ulundurpettai

Sample Reference INA

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

: M/s. SIPCOT

Sample Location

Environmental Condition : Temperature (°C): 28.0 | Humidity (%): 50.0

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

S.No.	Test Parameters	Units	Results			1S 10500 ; 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)	
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation	
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3	
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200,8: 1994	0.001	No relaxation	
41	Nickel	Nym	B£Q (LOQ: 0.01)	USEPA 200.8:1994	0.02	No relaxation	
42	Selenium	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8: 1994	10.0	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.

FHECSL/WT/075/230924/N

Sample ID No

: 230924172

Sampling Date

: 23/09/2024

Address of the Chent

Name of the Client

: kallakurichi

: M/s. SIPCOT

Group

: Water

Sample Name

: Ground Water (All)

Sample Mark

: Ulundurpettai

Sample Reference Sample Drawn Hy INA

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

Sample Location Environmental Condition

Received Date

: 23/09/2024 Commenced Date: 23/09/2024

Completed On : 30/09/2024

Report Date 30/09/2024

Sample quantity : 1 Litres

: Temperature (°C): 28.0 | Humidity (%): 50.0 Sampling Method & Plan : IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method
Disciplii	ne : Chemical			
1 1	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:01)	IS 3025 Part 52: 2003 (Diphenyl Carbazide method)

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



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Name of the Client



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TEST REPORT

Page: 1 of 4

ULR : TC1231024000046175F Report No.

23/09/2024

: 30/09/2024 :30/09/2024

FHECSL/WT/076/230924 Sample ID No : 230924173

Received Date

Completed On

Report Date

: 23/09/2024 Sampling Date:

Commenced Date: 23/09/2024

Sample quantity 1 Litres

Address of the Client : kallakurichi

Group Water

Ground Water (All) Sample Name

Sample Mark : Kanaiyar

Sample Reference : NA

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

: M/s. SIPCOT

Sample Location

Environmental Condition : Temperature (°C): 28.0 | Humidity (%): 50.0

S.No.	Test Parameters	Units	Hesults	Test Method	IS 10500	2012
					Acceptable Limits (Max)	Permissible Limits (Max)
Discip	pline : Chemical	77	W			
t :	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 MBA5	mg/I	BLQ(LOQ:0.05)	PHA 23rd edition (Method 5540 B 0.2 , C): 2017		19
3	Bi carbonate	mg/l	190.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	Pym	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	56.11	1S 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/I	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA.	NA
	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	15 3025 Part 58: 2006	NA	NA
	Chloride as Cl	mg/l	200.86	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	15 3025 (Part4): 2021	5	15
i.i	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	1S 3025 Part 27 Sec 1: 2021	0.05	No reluxation
12	Dissolved oxygen	mg/l	6.7	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA



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TEST REPORT

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ULR

: TC1231024000046175F

Report No.

: HECSL/WT/076/230924

Sample ID No

: 230924173

: 30/09/2024

: 30/09/2024

Completed On

Report Date

Sampling Date 23/09/2024

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity : 1 Litres

Address of the Client

Name of the Client

: M/s. SIPCOT : kallakurichi

Group

: Water

Sample Name

: Ground Water (All)

Sample Mark

: Kanaiyar

Sample Reference

: NA

Sample Drawn By

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

Sample Location

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 50.0

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

S.No.	Test Parameters	Units	Results	Text Method	IS 10500	2012
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	μS/cm	1042.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/I	0.45	APHA 23rd edition (Method 4500F- B., D): 2017	1.0	135
15	fron as Fe	Pager	BLQ(LOQ:0.01)	IS 3025 (Part 53): 2003 1.0		No relaxation
6	Magnesium as Mg	Ngm	31.59	IS 3025 Part 46: 1994 (Vulumetric 30 Method using EDTA)		100
7	Nitrate as NO3	Ngm	14.37	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
B	Percent Sodium	96	42.99	HECS /WT/SOP/002:: 2019	NA	NA
9	pH at 25°C	*	7,81	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
10	Phenolic compounds as C6H5OH	Ngm	BLQ(LOQ:0.00 1)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	rng/l	6.0	1S 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA
2	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624; 2019	NA	NA
13	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	2,56	IS 11624 : 2019	NA	NA
24.	Sodium as Na	mg/l	97.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)	NA	NA



D.Anusuya Lab Manager

Authorized Signatory

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TEST REPORT

Page: 3 of 4

ULR

: TC1231024000046175F

Report No.

HECSL/WT/076/230924

Sample ID No

: 230924173

Completed On

Report Date

: 30/09/2024

: 30/09/2024

Sampling Date : 23/09/2024

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity 1 Litres

: kallakurichi

: M/s. SIPCOT

Group

: Water

Sample Name

Name of the Client

Address of the Client

Ground Water (All)

Sample Mark

: Kanaiyar

Sample Reference

: NA

Sample Drawn By

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

Sample Location

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 50.0

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

S.No.	Test Parameters	Units	Results	Test Method	15 1050	F: 2012
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO4	mg/l	104,74	IS 3025 Part 24 Sec 1: 2022(Turbidity Method)	200	400
26	Total alkalinity as CaCO3	mg/l	190.0	1S 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	584.0	1S 3025 (Part 16): 1984	500	2,000
28	Total Suspended Solids	mg/I	BLQ(LOQ:2.0)	IS 3025 (Part 17): 1984 NA		NA
29	Phosphate as PO4	Pgm	BEQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (NA Stannows Obloride method)		NA
30	Phesphorous as P	ng/l	BLQ(LOQ:0.02)	18 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA.
31	Total hardness as CaCO3	mg/I	270.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	BLQ(LOQ:0.1)	IS 3025 (Part 10): 1984	1.	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barrum	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994 0.003		No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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Name of the Client

TEST REPORT

Page: 4 of 4

ULR

: TC1231024000046175F

Report No.

HECSL/WT/076/230924

Sample ID No

1230924173

Sampling Date : 23/09/2024

Completed On

Report Date

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity : 1 Litres

: 30/09/2024

30/09/2024

Address of the Client

: kallakurichi

M/s. SIPCOT

Group

Water

Sample Name

Ground Water (All)

Sample Mark

Kanaiyar

Sample Reference

: NA

Sample Drawn By

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

Sample Location Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 50.0

Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 ; 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8: 1994	0.01	No relaxation
39	Manganese	Ngm	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.1	0.3
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 ; 1994	0.001	No relaxation
41	Nickel	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	0.02	No relaxation
42	Selenium	mg/I	BLQ (LOQ: 0.005)	USEPA 200.8: 1994	10.0	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/076/230924/N

Sample ID No

: 230924173

Sampling Date

Report Date

BLQ(LOQ:0.01)

±23/09/2024

: 30/09/2024

Received Date : 23/09/2024

Commenced Date: 23/89/2024

Completed On : 30/09/2024

Sample quantity 1 Litres

Address of the Client

Name of the Client

: kallakurichi

: M/s. SIPCOT

Group

: Water

S.No.

Sample Name Sample Mark

Ground Water (All) : Kanaiyar

Sample Reference

: NA

Sample Drawn By Sample Location

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

Test Parameters

Hexavalent Chromium as Cr6+

Environmental Condition Sampling Method & Plan

Discipline : Chemical

Temperature (°C): 28.0 | Humidity (%): 50.0

Units

mg/l

: IS 17614(Part-1):2021

Results Test Method

> IS 3025 Part 52: 2003 (Diphenyl Carbazide method)

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



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TEST REPORT

Page: 1 of 4

ULR

: TC1231024000046176F

Report No.

* HECSL/WT/077/230924

Sample ID No

:230924174

Sampling Date

: 23/09/2024

Address of the Client

Name of the Client

: M/s. SIPCOT : kallakurichi

Group

1 Water

Received Date

1 23/09/2024

Sample Name

Surface Water (All)

Commenced Date: 23/09/2024

Sample Mark

2 Kunamangalam Lake

Completed On

130/09/2024

Sample Reference:

Report Date

130/09/2024

Sample Drawn By

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

Sample quantity 1 Litres

Sample Location Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 50.0

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/l	BLQ(LOQ:0.02)	JS 3025 Part 34 Sec 2: 2021	NA.
2	Bi carbonate	mg/l	140.0	15 3025 Part 51: 2001	NA:
3	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	3.0	1S 3025 Part 44: 1993	- 2
4:	Boron as B	mg/l	BLQ(LOQ:0.1)	18 3025 Part 57; 2021 (Curcumin Method)	NA:
5	Calcium as Ca	пдЛ	40.08	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	.205.76	IS 3025 Part 32: 1988 (Argentometric Method)	250
8	Colour	Hazen units	BLQ(LOQ:1.0)	1S 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	5.9	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	μS/cm	1025.0	1S:3025 Part 14: 2013	NA.
11	Fluoride as F	mg/l	0.44	APHA 23rd edition Method 4500 F -B,D: 2017	1.5
12	Iron as Fe	mg/l	0.076	IS 3025 Part 53: 2003	0.3
13	Nimate as NO3	mg/l	18.44	APHA 23rd edition Method 4500 NO3B: 2017	20

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TEST REPORT

Page: 2 of 4

ULR

: TC1231024000046176F

Report No.

* HECSL/WT/077/230924

Sample ID No

:230924174

Sampling Date ± 23/09/2024

Report Date:

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Completed On : 30/09/2024

Sample quantity 1 Litres

2 30/09/2024

Address of the Client.

: kallakurichi

: M/s. SIPCOT

Group

Water

Sample Name

3 Surface Water (All)

Sample Mark

g Kunumangalam Lake

Sample Reference

Sample Drawn By

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

Sample Location

Environmental Condition

* Temperature (°C) : 28.0 | Humidity (%) : 50.0

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 at 25°C	-	8.11	IS 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	574.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
18.	Cyanide as CN	mg/l	BLQ(LOQ:0:01)	IS 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	/Ngm	21.87	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	24.28
20	Percent Sodium	.%	51.22	HECSG /WT/SOP/002 Issue No:01,Issue date 18.12: 2021	NA
21	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43:Sec 1: 2022	0.002
22	Phosphate as PO4	rug/l	0.19	APHA 23rd edition Method 4500-P B,D; 2017	NA
23	Potassium as K	mg/l	9.0	18 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	tmg/l	BLQ(LOQ:1:0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	3.08	IS 11624: 2019	NA



D.Anusuya Lab Manager

Authorized Signatory

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Address of the Client

TEST REPORT

Page: 3 of 4

ULR

: TC1231024000046176F

Report No.

: HECSL/WT/077/230924

Sample ID No

: 230924174

Sampling Date 2 23/09/2024

Group

1 Water

1 M/s. SIPCOT

t kallakurichi

Received Date : 23/09/2024

Sample Name

Surface Water (All)

Commenced Date: 23/09/2024

1 30/09/2024

Sample Mark

: Kunamangalam Lake

Completed On

Sample Reference Sample Drawn By

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

Report Date

130/09/2024 Sample quantity 21 Litres

Sample Location

* Temperature ("C): 28.0 | Humidity (%): 50.0

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)
26	Sodium as Na	neg/I	98.0	IS 3025 Part 45: 1983	NA.
27	Sulphate as SO4	mg/l	74.36	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO3:	nog/I	140.0	IS 3025 Part 23: 1986	NA.
29	Total Hardness as CaCO3	leg/I	190.0	IS 3025 Part 21: 2009	300
30	Total Phosphorous as P	mg/I	0.058	1S 3025 Part 31 Sec 1: 2022	NA.
33	Total Suspended Solids	Ngm	4.0	1S 3025 Part 17: 1984	NA
32	Turbidity	NTU	2.1	1S 3025 Part 10: 1984	1
33	Amenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Barium	mg/l	BEQ (LOQ: 0.01)	USEPA 200.8: 1994	1
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.001
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8: 1994	1.5
38	Lead	Ing/I	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	9.1
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	100.0



D.Anusuya

Lab Manager Authorized Signatory

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Name of the Client

TEST REPORT

Page: 4 of 4

ULR

: TC1231024000046176F

Report No.

: HECSL/WT/077/230924

Sample ID No Sampling Date : 230924174 : 23/09/2024

Received Date : 23/09/2024

Commenced Dute: 23/09/2024

Completed On #30/09/2024

Address of the Client

: kallakurichi

M/s. SIPCOT

Group

1 Water

Sample Name

: Surface Water (All)

Sample Mark

2 Kunamangalam Lake

Sample Reference

Sample Drawn By

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

Sample Location

INA

Environmental Condition

* Temperature (°C) : 28.0 | Humidity (%) : 50.0

Sampling Method & Plan

: IS 17614(Part-1):2021

Report Date	: 30/09/2024	
Sample quan	nty 1 Litres	
	- I	

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

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



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TEST REPORT

Page: 1 of 1

Report No.

* HECSL/WT/077/230924/N

Sample ID No

: 230924174

Sampling Date

Received Date

Completed On

Report Date

Commenced Date: 23/09/2024

Sample quantity 11 Litres

: 23/09/2024

: 23/09/2024

: 30/09/2024

30/09/2024

Address of the Client

Name of the Client

: kallakurichi

: M/s. SIPCOT

: Water

Sample Name

Surface Water (All)

Sample Mark

; Kunamangalam Lake

Sample Reference

Sample Drawn By Sample Location 5 M/s.Hubert Enviro care Systems (P) Ltd.

Environmental Condition

* Temperature (°C): 28.0 | Humidity (%): 50.0

Sampling Method & Plan

I IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method
Disciplin	e : Chemical			
1 1	lexavalent 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.

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Address of the Client

TEST REPORT

Page: 1 of 4

ULR

: TC1231024000046177F

Report No.

1 HECSL/WT/078/230924

Sample ID No

: 230924175

Report Date:

+30/09/2024

Sampling Date : 23/09/2024

Received Date ± 23/09/2024

Commenced Date: 23/09/2024 Completed On ± 30/09/2024

Sample quantity 11 Litres

: kallakurichi

3 M/s, SIPCOT

Group

: Water

Sample Name

: Surface Water (All)

; Near Ajees Nagar

Sample Mark

Sample Reference

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

Sample Drawn By Sample Location

Environmental Condition

: Temperature (°C): 28.0 | Humidity (%): 50.0

Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (1S 2296 Class-A
Discip	line : Chemical			v.	
1	Animonia as NH3	трЛ	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	прЛ	160.0	1S 3025 Part 51: 2001	NA:
3.	Biological Oxygen Demand (BOD)@ 27°C For 3 days	ngA	2.0	IS 3025 Part 44: 1993	3
4	Boron as B	mg/l	BLQ(LOQ:0.1)	1S 3025 Part 57: 2021 (Curcumin Method)	NA
5	Calcium as Ca	mg/l	48.09	1S 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	.mg/l	29.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	191,07	1S 3025 Part 32: 1988 (Argentometric Method)	250
8	Colour	Hazen units	BLQ(LOQ:1.0)	1S 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	6.0	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	998.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	Ngm	0.41	APHA 23rd edition Method 4500 F -B,D: 2017	1.5
12	Iron as Fe	mg/l	0.041	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO3	mg/l	6.55	APHA 23rd edition Method 4500 NO3B: 2017	20

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

: TC1231024000046177F

Report No.

: HECSL/WT/078/230924

Sample ID No

: 230924175

Sampling Date

Completed On

Report Date

: 23/09/2024

: 30/09/2024

:30/09/2024

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity 1 Litres

: kallakurichi

1 M/s. SIPCOT

Group

r Water

Sample Name

1 Surface Water (All)

Sample Mark

: Near Ajees Nagar

Sample Reference

: NA

Sample Drawn By

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

Sample Location

Environmental Condition

: Temperature ("C): 28.0 | Humidity (%): 50.0

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 at 25°C		7.99	IS 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	561.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B , C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA:
18	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	21.87	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)	24,28
20	Percent Sodium	%	48.76	HECSG /WT/SOP/002 Issue No:01,Issue date 18:12: 2021	NA:
21	Phenolic compounds as C6H5OH	rog/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.002
22	Phosphate as PO4	mg/l	0.11	APHA 23rd edition Method 4580-P B,D: 2017	NA
23	Potassium as K	mg/L	8.0	IS 3025 Part 45: 1993	NA:
24	Residual Sedium Carbonate	mg/l	BLQ(LOQ:1:0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	2.90	IS 11624: 2019	NA



D.Anusuya Lab Manager Authorized Signatory

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TEST REPORT

Page: 3 of 4

ULR

: TC1231024000046177F

Report No.

2 HECSL/WT/078/230924

Sample ID No.

: 230924175

Sampling Date

Completed On

Report Dute

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity 11 Litres

: 23/09/2024

: 30/09/2024

: 30/09/2024

: kallakurichi

Group

: Water

Sample Name

: Surface Water (All) : Near Ajees Nagar

: M/s. SIPCOT

Sample Mark

Sample Reference

INA

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

Sample Drawn By Sample Location

Name of the Client

Address of the Client

Environmental Condition Sampling Method & Plan-

* Temperature (°C): 28.0 | Humidity (%): 50.0

: 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	97.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO4	rog/l	66,74	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO3	mg/t	160.0	IS 3025 Part 23: 1986	NA.
29	Total Hardness as CaCO3	mg/l	210.0	1S 3025 Part 21: 2009	300
30.	Total Phosphorous as P	mg/l	0.034	IS 3025 Part 31 Sec 1: 2022	NA.
31	Total Suspended Solids	mg/I	BLQ(LOQ:230)	1S 3025 Part 17: 1984	NA
32	Turbidity	NTU	BLQ(LOQ:0.1)	1S 3025 Part 10: 1984	1
33	Arxenie	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	Ngm	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead	Ngm	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	Meacury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8: 1994	0.001



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TEST REPORT

Page 14 of 4

ULR

: TC1231024000046177F

Report No.

1 HECSL/WT/078/230924

Sample ID No

; 230924175

Sampling Date : 23/09/2024

Address of the Client

Name of the Chest

: kallakurichi

: M/s, SIPCOT

: Water

Sample Name

Surface Water (All)

: Near Ajees Nagar

Sample Mark

Sample Reference Sample Drawn By

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

Sample Location **Environmental Condition**

Sampling Method & Plan

* Temperature ("C): 28.0 | Humidity (%): 50.0 : IS 17614(Part-1):2021

Received Date : 23/09/2024

Commenced Date: 23/09/2024 Completed On : 30/09/2024

Report Date : 30/09/2024

Sample quantity 1 Litres

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



D.Anusuya Lab Manager

Authorized Signatory

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TEST REPORT

Page: 1 of 1

Report No.

* HECSL/WT/078/230924/N

Sample ID No

: 230924175

Sampling Date

: 23/09/2024

Address of the Client

Name of the Client

1 kallakurichi

: M/s. SIPCOT

Group

1 Water

Received Date

23/09/2024

Sample Name

Surface Water (All)

Commenced Date: 23/09/2024

Sample Mark

1 Near Ajees Nagar

Completed On

1.30/09/2024

Sample Reference

Report Date

: 30/09/2024

Sample Drawn By

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

Sample quantity 21 Litres

Sample Location Environmental Condition

* Temperature (°C): 28.0 | Humidity (%): 50.0

Sampling Method & Plan

: IS 17614(Part-1):2021

S.No.	Test Parameters	Units	Results	Test Method
Disciplin	ne : Chemical			
1 1	Hexavalent Chromium	Ngon	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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HECS_CNOWNET/49*

HECS_CNOWNET/49*

HECS_CNOWNET/49*

HECS_CNOWNET/49*

The test results relate only to the test items.

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TEST REPORT

Page: 1 of 2

ULR

: TC1231024000046178F

Report No.

: HECS/PE/028/230924

Sample ID No

: 230924178

Sampling Date

Completed On

Report Date

Received Date # 23/09/2024

Commenced Date: 23/09/2024

Sample quantity 1 Kg

: 23/09/2024

: 30/09/2024

: 30/09/2024

Address of the Client

2 kallakurichi

1 M/s, SIPCOT

Group

2 Pollution & Environment

Sample Name

* Soil(All)

Sample Mark

: Near Project area

Sample Reference

: NA

Sample Drawn By

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

Sample Location

Environmental Condition

1 Temperature (°C): 31.0 | Humidity (%): 56.0

Sampling Method & Plan

: ICARDA-2013

S.No.	Test Parameters	Units	Results	Test Method
Discip	dine : Chemical			1
ı	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromiam	mg/Kg	21.05	HECS-G/INS/SOP/042 Issue No:01 Issue Date:01:03:2021
3	Copper	те/Ке	6.31	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
40	Zioc	mg/kg	36.02	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture		Clay loam	FAO of United Nations, Rome Chapter 111 2008
6	Soil Texture i)Sand	%	31.2	FAO of United Nations, Rome Chapter III 2008
?	Soil Texture ii)Silt	*	29.8	FAO of United Nations, Rome Chapter III 2008
8	Soil Texture iii)Clay	%	40.0	FAO of United Nations, Rome Chapter III 2008
9	pH Value @ 25 ° C (1 : 2.5)	79	7.18	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	286.0	IS 14767; 2000



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TEST REPORT

Page: 2 of 2

ULR

: TC1231024000046178F

Report No.

HECS/PE/028/230924

Sample ID No

: 230924178

Sampling Dute

Completed On

Report Date

: 23/09/2024

: 30/09/2024

: 30/09/2024

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity 1 Kg

Address of the Client

Name of the Client

: kallakurichi

: M/s. SIPCOT

Group

* Pollution & Environment

Sample Name

Soil(All)

Sample Mark

; Near Project area

Sample Reference

Sample Drawn By

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

Sample Location

INA

Environmental Condition

* Temperature (°C); 31.0 | Humidity (%); 56.0

Sampling Method & Plan

: ICARDA:2013

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	1.06	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.53	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.92	18 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	7.69	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	%	0.0247	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	6.54	FAO of United Nations, Rome Chapter III 2008
18	Exchangable Magnesium as Mg	mEq/L	8.94	FAO of United Nations, Rome Chapter 111 2008
19	Cation Exchange Capacity	mEq/100g	3.8	1S 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	28.8	1S 14765: 2000
21	Colour	14	Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07; 2020
22	Phosphorous	pg/g	13.94	FAO of United Nations, Rome Chapter

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.

: HECS/PE/028/230924/N

Sample ID No.

: 230924178

Sampling Date

Received Date

Completed On

Report Date

: 23/09/2024

23/09/2024

: 30/09/2024 : 30/09/2024

Commenced Date: 23/09/2024

Sample quantity 1 Kg

Address of the Client

Name of the Client

z kallakurichi

2 M/s. SIPCOT

Group

: Pollution & Environment

Sample Name

2 Soll(All)

Sample Mark Sample Reference

Sample Drawn By

2 Near Project area

: NA

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

Sample Location Environmental Condition Campling Marked & Disc

* Temperature ("C): 31.0 | Humidity (%): 56.0

: ICAPDA : 2013

S.Ne	. Test Parameters	Units	Results	Test Method
Disc	pline : Chemical			
	Manganese	mg/kg	120,41	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	3.42	Enhouse method
1	Infibration Rate	cmfu	3.5	Inhouse method
F	Moisture	%	4.46	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/l - Milligrams per liter. ***End of Report***



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TEST REPORT

Page: 1 of 2

ULR Report No. : TC1231024000046179F

* HECS/PE/029/230924

Sample ID No

: 230924180

Sampling Date

: 23/09/2024

: 30/09/2024

z kallakurichi

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Completed On : 30/89/2024

Sample quantity 1 Kg

Report Date

: M/s. SIPCOT

Group

: Pollution & Environment

2 Soil(All)

Sample Name Sample Mark

: Kanaiyar

Sample Reference

Name of the Client

Address of the Client

: NA

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

Sample Drawn By Sample Location

Environmental Condition Sampline Method & Plan

: ICARDA - 2013

: Temperature (°C): 31.0 | Humidity (%): 56.0

S.No.	Test Parameters	Units	Results	Test Method
Discip	line : Chemical		Ya.	.v
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	25.12	HECS-G/IN5/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Соррег	mg/Kg	8.20	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01:03:2021
4	Zinc	mg/kg	2431	HECS-G/INS/SOP/ 042 Issue No:01 Issue Date:01.03.2021
5	Soil Texture		Sandy clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	56	56.7	FAO of United Nations. Rome Chapter- III 2008
7	Soil Texture ii)Silt	%	7.8	FAO of United Nations, Rome Chapter- III 2008
8	Soil Texture (ii)Clay	16	35.5	FAO of United Nations, Rome Chapter 111 2008
9	pH Value @ 25 ° C (1 : 2.5)		7.24	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	284.0	IS 14767: 2000



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TEST REPORT

Page: 2 of 2

ULR

: TC1231024000046179F

Report No.

‡ HECS/PE/029/230924

Sample ID No

: 230924180

Sampling Date

Completed On

Report Date

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity 11 Kg

: 23/09/2024

: 30/09/2024

: 30/09/2024

Address of the Client

1 M/s. SIPCOT t kallakurichi

1 Pollution & Environment

Group

Soil(All)

Sample Name

: Kanaiyar

Sample Mark

Sample Reference

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

:NA

Sample Drawn By Sample Location

: Temperature (°C): 31.0 | Humidity (%): 56.0

Environmental Condition

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	1.08	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.56	15 2720 (Part 22) Section I 1972
13	Organic Matter	%	0.98	1S 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	7.48	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	%	0.0282	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	6.72	FAO of United Nations, Route Chapter III 2008
18	Exchangable Magnesium as Mg	mEq/L	9.48	FAO of United Nations, Rosne Chapter III 2008
19	Cation Exchange Capacity	mEq/100g	2.5	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	20.6	IS 14765: 2000
21	Colour		Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020
22	Phosphorous	Pg/g	18.64	FAO of United Nations, Rome Chapter

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mgfl - Milligrams per liter. ***End of Report***



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TEST REPORT

Page: I of I

Report No.

HECS/PE/029/230924/N

HECS-G/ENV/SSW/SOP/003 Issue

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

Sample ID No.

: 230924180

Sampling Date ± 23/09/2024

Address of the Client

Name of the Client

: kallakurichi

2 M/s, SIPCOT

Group

4

* Pollution & Environment

Sample Name

Soil(All) 2 Kanaiyar

Sample Mark Sample Reference

INA

Sample Drawn By

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

Sample Location Environmental Condition Sampling Method & Plan

Moisture

INA

4 Temperature (°C): 31.0 | Humidity (%): 56.0 : ICARDA: 2013

Received Date : 23/09/2024

Commenced Date : 23/09/2024 Completed On ± 30/09/2024

Report Date : 30/09/2024

Sample quantity 11 Kg

S.No. Test Parameters Units Results Test Method Discipline : Chemical Manganese 128.32 HECS-G/INS/SOP/ 042 mg/kg 2 mg/kg 9.48 Inhouse method Intiltration Rate cm/hr 3.4 Inhouse method

5.48

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

36



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TEST REPORT

Page: 1 of 2

ULR

: TC1231024000046180F

Report No.

Report Date

: HECS/PE/030/230924

Sample ID No

1 230924182

Sampling Date : 23/09/2024

1.30/09/2024

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Completed On 1 30/09/2024

Sample quantity 21 Kg

Address of the Client

Name of the Client

M/s. SIPCOT

: kallakurichi

Circup

3 Pollution & Environment

Sample Name

2 Soil(All)

Sample Mark

: Ulundurpettai

Sample Reference

INA

Sample Drawn By

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

Sample Location

:NA

Environmental Condition

: Temperature ("C): 31.0 | Humidity (%): 56.0

S.No.	Test Parameters	Units	Results	Test Method
Discip	dine : Chemical			I STOCK OF WAR WAS ARREST OF THE STOCK OF TH
	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	43.20	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	11.02	HECS-G/INS/SOP/-042 Issue No.:01 Issue Date:01.03.2021
4	Ziec	mg/kg	35.19	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture		Sandy loam	FAO of United Nations, Rome Chapter 111 2008
6	Soil Texture ()Sand	%	58.6	FAO of United Nations, Rome Chapter 111 2008
7.	Soil Texture ii)Silt	.76	27.9	FAO of United Nations; Rome Chapter III 2008
8	Soil Texture iii)Clay	%	13.5	FAO of United Nations, Rome Chapter III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.12	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/em	279.0	1S 14767: 2000



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Name of the Client

TEST REPORT

Page: 2 of 2

ULR

: TC1231024000046180F

Report No.

1 HECS/PE/030/230924

Sample ID No

:230924182

Sampling Date

Received Date

Report Date

: 23/09/2024

1 23/09/2024

: 30/09/2024

Commenced Date: 23/09/2024

Completed On : 30/09/2024

Sample quantity 21 Kg

Address of the Client

: M/s. SIPCOT : kallakurichi

Group

: Pollution & Environment

Sample Name

Soil(All)

Sample Mark

: Ulundurpettai

Sample Reference:

: NA

Sample Drawn By

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

INA

Sample Location

	nmental Condition Temperature (ng Method & Plan TCARDA:201.	(°C): 31.0 Humid 3	ity (%): \$6.0	
S.No.		Units	Results	Test Method
11	Bulk Density	gnvcm3	1.10	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.61	IS 2720 (Part 22) Section I 1972.
13	Organic Matter	%	1.06	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	5.5	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 Niurogen as N	%	0.0324	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	6.84	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	9.54	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	3.0	1S 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	32.6	IS 14765: 2000
21	Colour		Black	HECS-G/ENV/SSW/SOP/011 Issue No.:01 Issue Date:02:07: 2020
72	Phosphorous	μ <u>g/g</u>	27.6	FAO of United Nations, Rome Chapter

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



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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

Report No.

* HECS/PE/030/230924/N

Sample ID No

Received Date

Completed On

Report Date

: 230924182

‡ 23/09/2024

: 30/09/2024

: 30/09/2024

Sampling Date : 23/09/2024

Commenced Date: 23/09/2024

Sample quantity 1 Kg

Address of the Client

Name of the Client

‡ kallakurichi

M/s. SIPCOT

Group

: Pollution & Environment

3 Soil(All)

Sample Name Sample Mark

2 Ulundurpettai

Sample Reference

: NA

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

Sample Location Environmental Condition

Sample Drawn By

* Temperature ("C): 31.0 | Humidity (%): 56.0

Sampline Method & Plan

* ICARDA - 2013

S.Ne	. Test Parameters	Units	Results	Test Method
Disci	ipline : Chemical			
10	Manganese	nag/kg	142.96	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	2.56	Inhouse method
ţ	Infiltration Rate	cm/ht	4.2	Inhouse method
į.	Moisture	%	1.68	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, mgft - Milligrams per liter. "End of Report"



D.Anusuya Lab Manager **Authorized Signatory**

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Name of the Client

TEST REPORT

Page: 1 of 2

ULR

: TC1231024000046181F

Reperi No.

* HECS/PE/031/230924

Sample ID No

Report Dase

:230924183

30/09/2024

Sampling Date

Received Date : 23/09/2024

Commenced Date: 23/09/2024

Completed On : 30/09/2024

Sample quantity 1 Kg

: 23/09/2024

Address of the Client

2 kallakurichi

: M/s. SIPCOT

Gruup

: Pollution & Environment

Sample Name

Soil(All)

Sample Mark

: Pallidangal

Sample Reference

: NA

Sample Drawn By

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

Sample Location

: NA

* Temperature (*C): 31.0 | Humidity (%): 56.0

Environmental Condition Sampling Method & Plan

: ICARDA:2013

S.No	L Test Parameters	Units	Results	Test Method
Disci	pline : 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	24.20	HECS-G/INS/SOP/042 Issue No::01 Issue Date:01.03.2021
3	Copper	mg/Kg	6.81	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	42.37	HECS-G/INS/SOP/ 042 Issue No. 01 Issue Date:01.03.2021
5	Soil Texture		Sandy loam	FAO of United Nations, Rome Chapter III 2008
fi	Soil Texture i)Sand	%	54.2	FAO of United Nations, Rome Chapter III 2008
7	Soil Texture ii)Silt	%	29.4	FAO of United Nations, Rome Chapter III 2008
8	Soil Texture iii)Clay	%	16.4	FAO of United Nations, Rome Chapter III 2008
g	pH Value @ 25 ° C (1 : 2.5)	- 0	6.94	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	ji S/cm	260.0	IS 14767: 2000



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Name of the Chent



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TEST REPORT

Page: 2 of 2

ULR : TC1231024000046181F

Report No. # HECS/PE/031/230924

1 23/09/2024

: 30/09/2024

: 30/09/2024

Sample ID No : 230924183

Commenced Date: 23/09/2024

Sample quantity 1 Kg

Received Date

Completed On

Report Date

Sampling Dute 1 23/09/2024

Address of the Client 2 kallakurichi

Group : Pollution & Environment

: M/s. SIPCOT

Sample Name : Soil(All)
Sample Mark : Pallidangal

Sample Reference : NA

Sample Location ¹ NA

Environmental Condition : Temperature (°C): 31.0 | Humidity (%): 56.0

Sampling Method & Plan : ICARDA:2013

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	£ms/mg	1.02	FAO of United Nations Rome 2007
12	Organic Carbon	.54	0.54	1S 2720 (Part 22) Section I 1972.
13	Organic Matter	%	0.92	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	6.38	FAO of United Nations, Rome Chapter III 2008
15	Boron us 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	%	0.0312	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	7.94	FAO of United Nations, Rome Chapter- III 2008
18	Exchangable Magnesium as Mg	mEq/L	10.26	FAO of United Nations, Rome Chapter III 2008
19	Cation Exchange Capacity	mEq/100g	3.2	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	21.8	15 14765: 2000
21	Colour	7/2	Red	HECS-G/ENV/SSW/SOP/011 Issue No.:01 bssue Date:02:07: 2020
22	Phosphorous	μg/g	32.12	PAO of United Nations, Rome Chapter

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

""End of Report"



D.Anusuya Lab Manager

Authorized Signatory

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TEST REPORT

Page: 1 of 1

Report No.

1 HECS/PE/031/230924/N

Sample ID No Sampling Date

: 230924183 : 23/09/2024

Address of the Client

Name of the Client

: kallakurichi

1 M/s. SIPCOT

1 Pollution & Environment

Received Date

1 23/09/2024

Sample Name

Grenny

Soil(All)

Commenced Date: 23/09/2024

Sample Mark

: 30/09/2024

: Pallidangal

Completed On

Sample Reference Sample Drawn By

INA

Report Date

: 30/09/2024

Sample Location

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

Sample quantity 71 Kg

Environmental Condition

* Temperature (°C): 31.0 | Humidity (%): 56.0

Sampling Method & Plan

: ICARDA:2013

S.No	. Test Parameters	Units	Results	Test Method
Disci	pline : Chemical			
1	Manganese	mg/kg	132.62	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	4.62	Inhouse method
	Infiltration Rate	cm/hr	3.6	Inhouse method
1	Moisture	%	2.98	HECS-G/ENV/SSW/SOP/003 Insue No. 01 Issue Date:02:07: 2020

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



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INFOS. CANDIDATIVAD. HECS-G/Q/FMT/49

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

Ph: 42985555 / 43635555 Fax: 42985500

E-mail: labsales@hecs.in

Name of the Client

Address of the Client

Group



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TEST REPORT

Page: 1 of 2

HECS/PE/032/230924

ULR : TC1231024000046182F Report No.

23/09/2024

130/09/2024

: 30/09/2024

Sample ID No : 230924184

: 23/09/2024

Commenced Date: 23/09/2024

Sample quantity 21 Kg

Sampling Date

Received Date

Completed On

Report Date

: kallakorichi

M/s. SIPCOT

Pollution & Environment

Sample Name Soll(All) Sample Mark : Sattanur

Sample Reference : NA

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

Environmental Condition

Samoling Method & Plan : ICARDA:2013

Temperature (°C): 31.0 | Humidity (%): 56.0

S.No.	Test Parameters	Units	Results	Test Method
Discip	line : Chemical		10	W.
1	Cadroiwn	mg Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No. 01 Issue Date:01:03:2021
2	Chromium	mg Kg	29.31	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	8:10	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	32.14	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
i .	Soil Texture ()Sand	Pie.	43.6	FAO of United Nations, Rome Chapter III 2008
7	Soid Texture ii)Salt	24	24:5	FAO of United Nations; Rome Chapter 111 2008
8	Soil Texture sii)Clay	94	31.9	FAO of United Nations, Rome Chapter HI 2008
9	pH Value @ 25 ° C (1 : 2.5)		6.93	15 2720 (Part 2n) 1987
10	Electrical conductivity (ii: 25 ° € (1 : 2)	µS/cm	315.0	IS 14767: 2000



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

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Name of the Client

TEST REPORT

Page 2 of 2

ULR

: TC 1231024000046182F

Report No.

: HECS/PE/032/230924

Sample ID No.

: 230924184

Sampling Date

Received Date:

Completed On

Report Date

Commenced One: 23/09/2024

Sample quantity 1 Kg

- 23/09/2024

23/09/2024

: 30/09/2024

30/09/2024

Address of the Client

M/s. SIPCOT : kallakurichi

Circup

2 Pollution & Environment

Sample Name Sample Mark

: Soil(All) Sattanur

Sample Reference

INA

Sample Drawn By

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

Sample Location

Environmental Condition

Temperature (°C): 31.0

Humidi	ty (%)	: 56.0

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm3	1.12	FAO of United Nations Rome 2007
12	Organic Carbon	No.	0.59	IS 2720 (Part 32) Section I 1972
13:	Organic Matter	26	1.03	IS 2730 (Part 23) Section I 1972
14	Available Potassium	mEq/100g	6.84	FAO of United Nations, Rome Chapter - HI 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
te.	Total Nitrogen as N	16	0.0321	1S 14684 Clause 4 1999
17:	Exchangable Calcium as Ca	mEq/L	7.50	FAO of United Nations, Rome Chapter 111 2008
18.	Exchangable Magnesium as Mg	mEq/L	10.42	FAO of United Nations, Rome Chapter - HI 2008
19	Cation Exchange Capacity	mEq/100g	3.3	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	20.6	IS 14765: 2000
21	Colour		Black	HECS-G/ENV/SSW/SOP/011 Issue No. 4H Issue Date 02:07: 2020
22	Phasphorous	μp/g	26.24	FAO of United Nations, Rome Chapter

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



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

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Guindy, Chennai - 600 032.

Ph: 42985555 / 43635555 Fax: 42985500

E-mail: labsales@hecs.in

Name of the Client

Address of the Client

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TEST REPORT

Page: Lof I

Report No.

HECS/PE/032/230924/N

Sample ID No.

: 230924184

Sampling Date

Received Date:

Completed On

Report Date:

Commenced Date: 23/09/2024

Sample quantity 11 Kg.

: 23/09/2024

1 23/09/2024

130/09/2024

36/09/2024

: kallakurichi

: Mo. SIPCOT

Group

Pollution & Environment

Sample Name

Soil(All) : Sattanur

Sample Mark Sample Reference

: NA

Sample Drawn By

Sample Location Environmental Condition Sampling Method & Plan

: ICARDA: 2013

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

: Temperature (°C): 31.0 | Humidity (%): 56.0

1111	mig vicinos & rian T.C. ARTE, 4.201.	D:	- III CARE TO SEE	
S.No	Test Parameters	Units	Results	Test Method
Disci	pline : Chemical	tc = 12		
1	Manganese	mg/kg	153.24	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	3.49	Inhouse method
Ī	Infiltration Rate	cm/m	3.8	Inhouse method
4	Moisture	No.	4.74	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02:07: 2020

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



D.Anusuya Lab Manager

Authorized Signatury

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

Ph: 42985555 / 43635555 Fax: 42985500

E-mail: labsales@hecs.in



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TEST REPORT

ULR

Page: 1 of 1

Report No.

: TC1231024000045667F

- HECS/AP/057/230924

Sample ID No

: 230924170

Sampling Date

Received Date

Completed On

Sample quantity : NA

Report Date

Commenced Date: 23/09/2024

: 23/09/2024

: 23/09/2024

: 27/09/2024

: 27/09/2024

Address of the Client : kallakurichi

Group

: M/s. SIPCOT

Sample Name

Atmospheric Pollution

Sample Mark

Ambient Noise Levels (Excluding vibration)

: Noise : NA

Sample Reference Sample Drawn By

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

Sample Location Environmental Condition

Name of the Client

I NA

: Temperature (°C): 32.0

Humidity (%): 56.0

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Near Project area	53.4	43.5
2	Kanaiyar	52.3	41.4
3	Ulundurpettai	53.8	43.6
34	Pallidangal,	51.2	42.8
5	Idaikkal	50.8	44.2

Noise Standards - CPCB:

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

Note:

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

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

> Dr. Rajkumar Samuel Director Technical Authorized Signatory



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TAMIL NADU WATER SUPPLY AND DRAINAGE BOARD

E-. Mail: eerwsslm2010@gmail.com Phone:0427-2448261

981/2023.

From

Er.C.Mathiyalagan.M.E., Executive Engineer, TWAD RWS Division, No.24, Palaniyappa Nagar; Salem Го

The Managing Director,

SIPCOT,

19-A, Rukmani Lakhsmipathy Road,

Post Box No. 7223, Egmore,

Chennai - 600 008

Lr No.F.SIPCOT /JDO/RWS/SLM/2023/Dated.10.01.2023

Sir,

Sub: TWAD Board – RWS Division - Salem – Providing 3.20 MLD Water supply from 10.00 MLD Dedicated water supply scheme to AllRLIVAS site at Thalaivasal Koot Road in Salem District - Request for obtaining concurrence by SIPCOT for drawal of 3.20 MLD from AllRLIVAS belonging to Animal Husbandary Department – Reg.

Ref

- Managing Director, SIPCOT Lr. No. CD/KKC/WSS/2022/Dt. 01.12.2022
- EODB Application No. TWAD 20220081 Dt. 08.11.2022
- G.O.(Ms) No. 183 / Animal Husbandry, Dairying and Fisheries (AH2) Department /Dt. 16.12.2019

I kindly submit that TWAD Board has been requested for providing 3.20 MLD Water supply to SIPCOT Industrial park at A. Sathanur in Ulunthurpet Taluk from 10.00 MLD dedicated Water supply scheme to Advanced Institute for Integrated Research on Livestock and Animal Sciences (AHRLIVAS) Institute at Thalaivasal koot road in Salem District vide reference 1st cited. Necessary application has been filed in EoDB on 08.11.2022 vide reference 2nd cited.

In this regard, I kindly submit that dedicated water supply scheme has been executed by TWAD Board as per the administrative sanction vide reference 3rd cited as deposit work exclusively for AlikLivas belonging to Animal Husbandary department. Hence I request that necessary concurrence for drawal of 3.20 MLD water from Water Supply Scheme to AlikLivas may kindly be obtained by SIPCOT for further processing of the above water supply requirement.

Executive Engineer, TWAD

RWS Division, Salem

Latter ...

18/1/23

4348

17559/2023

ந.க.எண்.8587/ILP/2022

இயக்குநர் அலுவலகம் கால்நடை பராமரிப்பு மற்றும் மருத்துவப் பணிகள் கால்நடை பன்முக மருத்துவமனை வளாகம் 571, அண்ணா சாலை, நந்தனம், சென்னை – 35. நாள்: 24.04.2023.

அனுப்புநர்: திருமதி. எம்.லஷ்மி, இ.ஆ.ப., இயக்குநர் கால்நடை பராமரிப்பு மற்றும் மருத்துவப் பணிகள் சென்னை – 35.

பெறுநர்:

மேலாண் இயக்குநர்,

தமிழ்நாடு அரசு தொழில் முன்னேற்றக் கழகம் (SIPCOT),

19A, ருக்மணி லக்ஷ்மிபதி ரோடு,

எழும்பூர், சென்னை.



JAMPS.

பொருள் :

தமிழ்நாடு அரசு தொழில் முன்னேற்றக் கழகம் (SiPCOT) சி சாத்தனூர் தொழிற்பூங்கா – கால்நடை மற்றும் விலங்கின அறிவியலுக்கான ஒருங்கிணைந்த உயர் ஆராய்ச்சி நிலையத்தின் (AllRLIVAS) செயல்பாட்டிற்காக 10MLD தண்ணீர் பயன்படுத்தும் திட்டம் – 3.2MLD தண்ணீர் – தொழிற்பூங்காவிற்கு ஆணை வழங்குதல் தொடர்பாக.

பார்வை :

- தமிழ்நாடு அரசு தொழில் முன்னேற்றக் கழகம் (SIPCOT)
 Lr.No.CD/KKC/WSS/2023 நாள்: 19.01.2023.
- புரிந்துணர்வு ஒப்பந்தம் தமிழ்நாடு குடிநீர் வடிகால் வாரியம் மற்றும் கால்நடை பராமரிப்புத்துறை, நாள்: 29.05.2020
- T.O.Lr.No.CD/KKC/WSS/2022 Dated. 26.09.2022 and 01.12.2022 addressed to the Managing Director TWAD Board, Chennai

 –5.
- E.E/TWAD/RWSDivision/Salem/Lr.No.F.SIPCOT/JDO/RWS/SLM/2023
 Dated 10.01.2023 addressed to the Managing Director, SIPCOT.
- 5. TWAD BOARD B.P.Ms.No.88, நாள் : 08.11.2017.

சேலம் மாவட்டம், தலைவாசல் கூட்டுரோட்டிற்கு அருகில் தேசிய நெடுஞ்சாலை எண்.79–ஐ ஒட்டி அமைந்துள்ள கால்நடை பராமரிப்புத்துறைக்கு சொந்தமான 1102. 25 ஏக்கர் பரப்பில் கால்நடை பராமரிப்பு, பால்வளம் மற்றும் மீன்வள

on copy Mo. to. CT-INC. on 215/23.

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நடைமுறைகள் மற்றும் தொழில்நுட்பங்களை உள்ளடக்கிய ஒருங்கிணைந்த பல்துறை பல்நோக்குடன் கூடிய கால்நடை மற்றும் விலங்கின அறிவியனுக்கான ஒருங்கிணைந்த உயர் ஆராய்ச்சி நிலையம் (AllRLIVAS) ரூ564.44 கோடி மதிப்ரீட்டில் நிறுவப்பட்டுவருகிறது.

இந்நிலையத்திற்காக தமிழ்நாடு குடிநீர் வடிகால் வாரியம் மூலம் ரூ262.16 கோடி மதிப்பீட்டில் மேட்டூர் அணையிலிருந்து சுமார் 156 கிலோ மீட்டர் தூரம் குழாய்கள் மற்றும் Pumping Station, Water Purification Plant, Ridge Sump, Three Break Pressure Tank ஆகிய கட்டமைப்புகள் மூலம் தண்ணீர் பெற்றிட பணிகள் செய்து முடிக்கப்பட்டுள்ளது. இத்தண்ணீரை சேமிக்க 60 (25+25+10) இலட்சம் லிட்டர் கொள்ளளவு கொண்ட 3 மேல்நிலை தண்ணீர் தொட்டிகள் அமைக்கப்பட்டுள்ளது.

கால்நடை மற்றும் விலங்கின அறிவியலுக்கான ஒருங்கிணைந்த உயர் ஆராய்ச்சி நிலையம் 2023ஆம் ஆண்டு பயன்பாட்டிற்கு கொண்டுவருவதற்கான ஆயத்தப்பணிகள் நடைபெற்றுவருகிறது.

இந்நிலையில் பார்வை 1ல் காணும் தமிழ்நாடு அரசு தொழில் முன்னேற்றக் கழகத்தின் (SIPCOT) கடிதத்தின் படி கள்ளக்குறிச்சி மாவட்டம் A சாத்தனூரில் அமைக்கப்படவுள்ள தொழிற்பூங்காவிற்கு 3.2 MLD (3.2 Million Litres per day) தண்ணீர் வழங்கிட கால்நடை பராமரிப்புத்துறையின் ஒப்புதல் கோரப்பட்டுள்ளது.

தமிழ்நாடு குடிநீர் வடிகால் வாரியமானது அரசு, தொழில் மற்றும் வணிக ரீதியான நிறுவனங்களுக்கு தண்ணீர் வழங்குவது தொடர்பாக பார்வை 5–ன் வழி கீழ்கண்டவாறு கட்டணம் நிர்ணயம் செய்துள்ளதாக தெரியவருகிறது.

வ.எண்	நிறுவனம்	கட்டண விகிதம்
1	அரசு நிறுவனங்கள்	ரூ30/1000 லிட்டர்
2	தொழில் மற்றும் வணிக ரீதியான நிறுவனங்கள்	ரூ60/1000 லிட்டர்

கால்நடை மற்றும் விலங்கின அறிவியலுக்கான ஒருங்கிணைந்த உயர் ஆராய்ச்சி நிலையத்திற்கு நாள் ஒன்றிற்கு 10MLD (18hrs/Day) தண்ணீர் தேவைப்படும். இந்த 10MLD தண்ணீர், 18 மணி நேரம் பம்பிங் செய்வதன் மூலம் பெறப்படும். மேலும் பார்வை 1ல் காணும் SIPCOT நிறுவன கடிதவழி, கோரப்பட்டுள்ள 3.2MLD தண்ணீர், எஞ்சிய 6 மணி நேரம் பம்பிங் செய்வதன் மூலம், பெற்று பயன்படுத்திட இதன்வழி இசைவு தெரிவிக்கப்படுகிறது. அதற்குரிய கட்டணத்தினை தமிழ்நாடு குடிநீர் வடிகால் வாரியம் வழிகாட்டுதலின்படி செலுத்தவேண்டும் எனவும் தெரிவிக்கப்படுகிறது.

> ஒம்/~ எம்.லஷ்மி இயக்குநர் காலநடை பராமரிப்பு (ம) மருத்துவப் பணிகள் சென்னை – 35.

// உண்மை நகல் // அனுப்பப்படுகிறது

இW ஆடிற்ற கூடுதல் இயக்குநர் (பணிக்கைன்) இயக்குநர் அலுவலகம் கால்நடை பராமரிப்பு (ம) மருத்துவப் பணிகள் சென்னை – 35.

ഉക്കു കയിലുന്നുള്ളികളും

<u>SIPCOT – KALLAKURICHI</u>

MONITORING PHOTOGRAPHS

AMBIENT AIR QUALITY MONITORING PHOTOS:

NEAR PROJECT AREA



Kanaiyar



Ulundurpettai



Pallidangal



Idaikkal



GROUND WATER SAMPLING PHOTOS



Ulundurpettai



NOISE SAMPLING PHOTOGRAPH

NEAR PROJECT AREA



Kanaiyar



Ulundurpettai



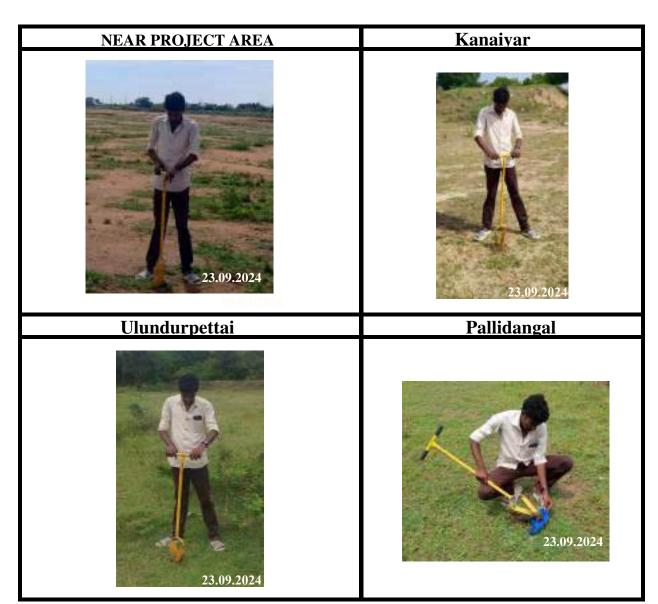
Pallidangal



Idaikkal



SOIL MONTORING PHOTOGRAPH



Idaikkal



SURFACE WATER SAMPLING PHOTOGRAPH

Kunamangalam Lake



Lake near Ajees Nagar



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.**

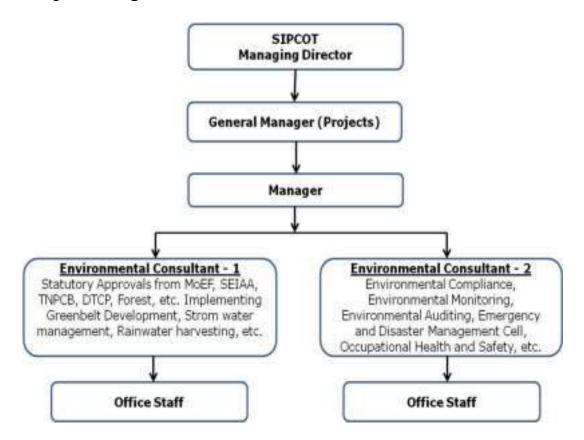


Figure - 1 Organogram for Environmental Management Cell

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		
		> Responsible for overall environmental management.		
	Managing Director	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.		
	GM – Projects	Keep aware about all the activities performed under		
		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.		