



SIPCOT

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

Date: 30.11.2023

To,
The Member Secretary,
State Level Environment Impact Assessment Authority,
3rd Floor, Panagal Maligai,
No.1 Jeenis Road, Saidapet,
Chennai-600 015

Sir/Madam,

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

Ref: EC vide Letter No. SEIAA-TN/F.7316/EC/8(b)/797/2022 dt. 02.02.2022.

We hereby submit the Half Yearly Compliance Report for the Development of Industrial Park at Vallam A and Vallam B villages, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu for December 2023 (i.e., for the period of April 2023 to September 2023) along with the supporting documents for your perusal.

Thanking you

Yours faithfully,
Sd/-
MANAGING DIRECTOR

Encl: As above.

Copy to:

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

P.T.O.

State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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

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



SIPCOT

/2/

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

/Forwarded by Order/

H. Pratharathen
GENERAL MANAGER (P-II)

skl.
30/11/23

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**HALF YEARLY ENVIRONMENTAL CLEARANCE
COMPLIANCE REPORT**

For the Period of April 2023 – September 2023

For

“Development of Vallam Vadagal Industrial Park-II”

At

**Vallam A and Vallam B Villages, Sriperumpudur Taluk,
Kancheepuram District,
Tamil Nadu.**

**EC OBTAINED Vide Letter No.SEIAA-TNIF.7316/EC/8(b)/797/2022 dated:
02.02.2022.**

Submitted by



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

Prepared by



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

November 2023

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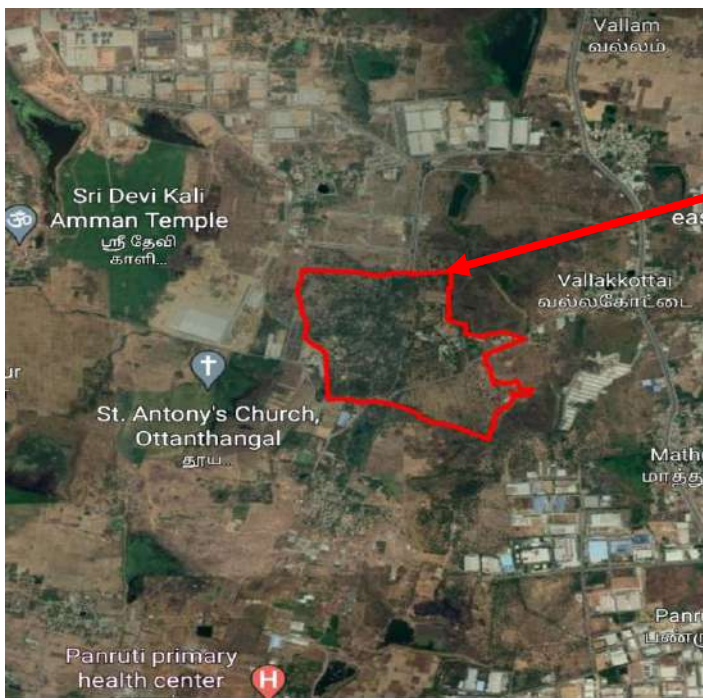
LIST OF ANNEXURE

S.No	List of Contents
Annexure 1	Environmental Clearance Copy
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1.0 PROJECT DETAILS

Name of the Project	Expansion & change in concept of Development of Vallam Vadagal Industrial Park II, by including Industrial Housing facility for the employees of Vallam Vadagal IP - II in an area of 131.73 Ha (325.36 Acres) (Exclusively for industries which does not require EC neither A nor B category Construction of Industrial Housing with built up area 2,07,736.10 sq.m. comprising 3120 No. of units by SIPCOT.
Name of the Proponent	M/s. State Industries Promotion Corporation of Tamil Nadu Ltd.
Location	Vallam A and Vallam B Villages, Sriperumpudur Taluk, Kancheepuram District, Tamil Nadu.
EC. No	EC22B039TN177183 dated 09/02/2022 SEIAA Letter No. SEIAA-TN/F.7316/EC/8(b)/797/2022 dated: 02.02.2022. Enclosed as Annexure-1 .
Total Plot Area	131.73Ha(325.36 Acres)
Water Requirement	5763 KLD (Fresh water- 2094.5 KLD, Recycled Water- 3668.5 KLD) Fresh Water Source: Chembarambakkam Lake
Project Cost	Rs.1040 Crores. (Rs.360 Crores for Industrial Park and Rs 680 Crores for Industrial Housing facility).

2.0 LOCATION MAP



3.0 SITE PHOTOGRAPHS



4.0 SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

SEAC Specific Condition:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The project proponent shall continuously operate and maintain the Sewage treatment plant & Grey Water Treatment Plant to achieve the standards prescribed by the TNPCB/CPCB.	All the member units will be instructed to comply with. Acknowledgement copy of the letter submitted to SEIAA stating that SIPCOT will not propose STP for the Industrial Park is enclosed as Annexure – 10.
2.	The project proponent shall submit flood inundation certificate and shall fix the level according to the conditions issued in the certificate.	Condition will be complied.
3.	The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to SEIAA.	Condition will be complied.
4.	The height of the stacks of DG sets shall Be provided as per the CPCB norms.	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.
5.	The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.
6.	The proponent shall make proper arrangements for the disposal of the treated water from the proposed site for Toilet flushing. Green belt development & OSR and no treated water be let out of the premises.	SIPCOT shall mandate all member units to have their own ETP with zero liquid discharge system and to handle their own domestic waste water as per the prescribed standards.

7.	The sludge generated from the Sewage Treatment Plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.	Condition will be complied. Individual industries shall comply with.
8.	The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.	Condition will be complied.
9.	The purpose of Green belt around the Project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species Should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be include in the layout out plan to be submitted for CMDA, DTCP approval. The total green belt area should be minimum 15% of the total area and the small shall not be used for car parking/OSR,	Tentative layout plan showing the green belt area earmarked with GPS coordinates is enclosed as Annexure-14 . SIPCOT will provide minimum 33% of the developable area for green belt.
10.	The project proponent shall provide entry and exit points for the OSR area, play	Condition will be complied.

	area as per the norms for the public usage and as committed.	
11.	The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed	Condition will be complied.
12.	The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016. as amended for the generation of Hazardous waste within the premises.	Condition will be complied. All the member units will be instructed to follow applicable rules and guidelines.
13.	No waste of any type to be disposed off in any other way other than the approved one.	Condition noted. All the member units will be instructed to comply with.
14.	The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.	Condition will be complied.
15.	All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.	Condition will be complied. All the member units will be instructed to comply with.
16.	The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.	Condition will be complied.
17.	The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post – COVID period.	Condition will be complied.
18.	Solar energy should be at least 10% of	Condition noted. All the member units will

	total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.	be instructed to follow applicable rules and guidelines.
19.	As per the MoEF& CC Office Memorandum F.No. 22-6512017-IA.I Dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP and revised CER shall be furnished before placing the subject to SEIAA.	Condition complied.

SEIAA Additional Conditions:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	All the construction of Buildings shall be energy efficient and conform to the green building norms.	All the member units will be instructed to follow applicable rules and guidelines.
2.	The proponent shall provide the adequate play area for the children within the premises.	Condition noted.
3.	The proponent shall provide the adequate health care facility within the premises.	Condition will be complied
4.	The proponent shall provide the adequate parking facility within the premises with clear traffic plan.	Condition will be complied.
5.	All the eateries provided within the premises shall be maintained in hygienic way.	Condition noted.
6.	The proponent shall ensure that no treated or untreated trade effluents/sewage shall be discharged outside the premises under any circumstances.	SIPCOT shall mandate all member units to have their own ETP with zero liquid discharge system and to handle their own domestic waste water as per the prescribed standards.
7.	The proponent shall ensure that the activities should not result in temperature	All the member units will be instructed to follow applicable rules and guidelines.

	rise, nor lead to rise in carbon dioxide and other gases that odd to climate change.	
8.	All the trees, biodiversity and water bodies within the premises should be protected.	Condition noted.
9.	Action should be initiated to cover 33% of the total project area under green belt development with native species.	Condition will be complied.
10.	All mitigation measures as suggested in the EIA / EMP and disaster management plan to be strictly adhered.	Condition noted.
11.	The activities should in no way cause emission and built-up Green House Gases (GHC)	All the member units will be instructed to follow applicable rules and guidelines.
12.	All action to be eco friendly and support sustainable management of the natural resources within and outside premises.	Condition noted.

PART A-Common Conditions Applicable For Pre-Construction, Construction and Operational Phases

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	Any appeal against this environmental clearance shall lie within the Hon'ble National Green Tribunal, if preferred within a period of 30 days as prescribed under the section 16 of the National Green Tribunal Act, 2010.	No appeal lies against this environmental clearance.
2.	The construction of STP, Solid Waste Management facility, E-waste Management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.	Condition noted. Construction shall be carried out as per the approved layout.
3.	The Environmental safeguards contained in the application of the proponent mentioned during the presentation before	Condition noted.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	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.	Condition noted. All the member units will be instructed to obtain all necessary statutory clearances and approvals. Consent to Establish copy is enclosed as Annexure-2 .
5.	The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.	Condition Noted.
6.	A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.	Condition is being complied.
7.	The environmental statement for each financial year ending 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	Condition is being complied. Acknowledgment copy for submission of Form-V is enclosed as Annexure -3 . Screenshot showing Environmental Statement uploaded in the website is enclosed as Annexure – 4 .

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	sent to the Regional Office of the Ministry of Environment and Forests, Chennai by E-mail.	
8.	The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite Data / information / monitoring reports.	Condition will be complied.
9.	"Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.	Condition complied. CTE copy is enclosed as Annexure-2 .
10.	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.	Condition Noted. There is no change in scope of the project.
11.	The conditions will be enforced inter-alia, under the provisions of the Water(prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act1957,National Commission for protection of Child Right Rules ,2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India Hon'ble High Court of Madras and any other Courts of Law, including the Hon 'ble National Green Tribunal relating to the subject matter.	Condition Noted.
12.	The Environmental Clearance shall not be	Condition noted.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	cited for relaxing the other applicable Rules to this project.	
13.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (protection) Act, 1986.	SIPCOT shall comply with all the applicable conditions of EC.
14.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx(ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.	Condition is being complied. The compliance report including monitoring data has been uploaded on our website and screenshot is enclosed as Annexure -4 .
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	Condition Noted.
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 betaking decisions	Condition Noted.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	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.	Condition Noted.
18.	The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.	Condition Noted.
19.	Where the trees need to be cut, compensation plantation in the ratio of 1: 10 (i.e. planting of 10 trees for everyone tree that is cut) should be done with the obligation to continue maintenance.	Condition Noted.
20.	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.	Condition complied. Separate environmental management cell has been assigned and will report to the General Manager, SIPCOT who will report directly to the Head of the Organization for implementation monitoring and compliance of the environmental safeguards. Details of Environmental Management Cell with Roles and Responsibilities are enclosed as Annexure- 5 .
21.	The EMP cost of Rs.1324.53 Lakhs shall be deposited in a Nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	Condition noted.
22.	The project activity should not cause any disturbance & deterioration of the local Bio	Condition will be complied.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	diversity.	
23.	The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.	Condition Noted.
24.	All the assessed flora & fauna should be conserved and protected.	Condition Noted.
25.	The proponent should strictly comply with, Tamil Nadu Government Order (Ms)No.84 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.	Condition will be compiled. All the member units will be instructed to comply with.
26.	As per MoEF& CC, Gol, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for Wildlife as applicable shall be obtained before starting the operation, if the project site is located within 10KM from National Park and Sanctuaries.	Condition is not applicable, since there are no Notified Parks / Sanctuaries within 10 km form the project site.
27.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.	Condition will be complied.
28.	The safety measures proposed in the report should be strictly followed.	Condition will be complied. All the member units will be instructed to comply with.
29.	The Developer shall ensure that no allotment letter sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, in case any category A or category B type of	Condition noted.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006.	
30.	The Developer shall mandate the member industries of the Industrial Park to allot 33% of the plot area for green belt development and to install RWH structures.	Condition noted and will be complied.
31.	The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise Control measures to achieve the standards prescribed by the TNPCB.	Condition noted. All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system and to handle the domestic wastewater as per the prescribed standards.
32.	The project proponent shall ensure that the individual member units will not be allowed to carry out manufacturing of products stipulated in G.O. (Ms) No. 84dated 25/06/2018 on banning of one time use on and throw away plastics.	Condition noted. All the member units will be instructed to follow all applicable rules / guidelines.
33.	The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtaining the CTE from TNPCB.	Condition complied. Land use classification certificate has been obtained.
34.	The CER fund shall be utilized as per the office memorandum of MoEF & CC dated 01.05.2018 before obtaining CTO from TNPCB.	Condition noted.
35.	The allotted industrial units shall obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.	All the member units will be mandated to obtain all the necessary statutory clearances and approvals as applicable.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
36.	The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.	Condition noted and will be complied.
37.	The proponent shall provide Rain Water Harvesting pits so as to recharge the Ground water table.	Condition will be complied.
38.	Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.	All the member units shall comply with. All the member units will be instructed to follow applicable rules and guidelines.
39.	It is the sole responsibility of the proponent that the treated sewage disposed for Greenbelt development/ avenue plantation should not pollute the soil/ groundwater/ adjacent canals/ lakes/ ponds, etc.	All the member units will be instructed to comply with.
40.	The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade Effluents.	Condition will be complied. All the member units will be mandated to provide ETP with Zero Liquid Discharge system and to handle the domestic wastewater as per the prescribed standards.
41.	The project proponent shall ensure that all the member units should treat and dispose solid waste & E-waste as per the Solid Waste Management Rules, 2016 as amended and E-Waste Management Rules, 2016.	All the member units will be instructed to follow applicable rules and guidelines.
42.	There shall be no discharge of effluent outside the Industrial Park at any time.	Condition will be complied. All the member units will be mandated to provide individual ETP with Zero Liquid Discharge system and not to discharge effluent outside the IP.
43.	The Developer shall mandate the member units of the Industrial Park to install adequate APC measures/Acoustic to	All the member units will be instructed to follow applicable rules and guidelines.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	achieve air emissions standards within Permissible limits prescribed by the CPCB.	

PART - B - SPECIFIC CONDITIONS - PRE CONSTRUCTION PHASE:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The project authorities should advertise with 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.	Condition complied. Newspaper advertisement copy is attached as Annexure – 6 . The copy of the press release has been forwarded to the Regional Office of the Ministry of Environmental and Forests located at Chennai and SEIAA- TN and acknowledgement for the same is enclosed as Annexure -7 .
2.	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.	There is no scope in the change of project.
3.	A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.	Condition Complied. The proof of submission of EC copy to Local Body is enclosed as Annexure -8 . The clearance letter also uploaded on SIPCOT website. The screenshot is enclosed as Annexure- 9 .
4.	The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightning etc. before commencement of the work.	Condition noted. Individual member units will be instructed to obtain all necessary statutory clearances and approvals.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
5.	All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.	Condition noted and will be complied. All the member units will be instructed to comply with.
6.	Design of buildings should be conformity with the Seismic Zone Classifications.	Condition noted. All the member units will be instructed to comply with their approvals / clearances.
7.	The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.	Condition will be complied. All the member units will be instructed to comply with their approvals / clearances.
8.	No construction activity of any kind shall be taken up in the OSR area.	Condition noted.
9	Consent of the local body concerned should be obtained for using the treated Sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.	All the member industries shall comply with.
10.	The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.	Condition is not applicable. Site does not fall in CRZ area.
11.	The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.	Condition is not applicable. Proposed project is an industrial park.
12.	The project proponent shall ensure the level of basement shall be above Maximum flood level.	Condition noted. All the member units will be instructed to comply with.
13.	The proponent shall prepare completion plans showing Separate pipelines marked with different colors with the following details	Condition is not applicable for the project since it is Industrial Park. Request letter has been submitted to SEIAA, TN for exemption of this

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	I. Location of STP, compost system, underground sewer line. II. Pipe Line conveying the treated III. Effluent for green belt development. IV. Pipe Line conveying the treated effluent for toilet flushing V. Water supply pipeline VI. Gas supply pipe line, if proposed VII. Telephone cable VIII. Power cable IX. Storm water drains, and X. Rain water harvesting system, etc. and it shall be made available to the owners	condition. Acknowledgement copy is enclosed as Annexure-10 .
14.	A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.	Condition will be complied. All the member units will be instructed to comply with.
15.	The present land use surrounding the project site shall not be disturbed at any point of time.	Condition will be complied.
16.	The greenbelt area shall be planted with indigenous native trees.	Greenbelt will be developed with native indigenous species.
17.	Natural vegetation listed particularly the trees shall not be removed during the Construction/operation phase. In case any trees are likely to be disturbed, shall be Replanted.	Condition will be complied.
18.	During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.	Condition will be complied.
19.	The Provisions of Forest conservation Act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.	All the member units will be instructed to follow applicable rules and guidelines..

S.NO	CONDITIONS	STATUS OF COMPLIANCE
20.	There should be Fire fighting plan and all required safety plan.	All the member units will be instructed to comply with.
21.	Regular fire drills should be held to create awareness among owners/ residents.	All the member units will be instructed to comply with.

Part - C - Specific Conditions - Construction phase:

1. Construction Schedule:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The Project proponent shall have to furnish the probable date of Commissioning of the project supported with necessary bar charts to SEIAA-TN.	Condition noted.

2. Labour Welfare:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	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.	Condition noted and will be complied. All the member units will be instructed to comply with.
2.	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective Measures, if needed.	Condition noted and will be complied. All the member units will be instructed to comply with.
3.	Periodical medical examination of the workers engaged in the project Shall be carried out and records maintained. For	Condition noted. All the member units will be instructed to comply with.

	<p>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.</p>	
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3. Water Supply:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	<p>The entire water requirement during construction phase may be met from ground water source from the source with approval of the PWD.</p>	<p>Fresh Water requirement will be met from Chembarambakkam lake. GO regarding the same is enclosed as Annexure-12.</p>
2.	<p>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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Condition not applicable. Local labours will be employed for the project. There will not be any housing for labour.</p>
3.	<p>Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of wastewater shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.</p>	<p>Condition noted and will be complied. All the member units will be instructed to comply with.</p>
4.	<p>Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices prevalent.</p>	<p>Condition noted and will be complied. All the member units will be instructed to comply with.</p>
5.	<p>Fixtures for showers, toilet flushing and drinking water should be of low flow type</p>	<p>Condition noted and will be complied. All the member units will be instructed to</p>

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	by adopting the use of aerators / pressure reducing devices / sensor based control.	comply with.

4. Solid Waste Management:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be composted with biodegradables.	Condition noted and will be complied. All the member units will be instructed to comply with.
2.	House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.	Condition noted. All the member units will be instructed to comply with.
3.	Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.	Condition noted and will be complied. All the member units will be instructed to comply with.
4.	No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.	Condition noted and will be complied. All the member units will be instructed to comply with.
5.	E-waste shall be disposed through Authorized vendor as per E-waste(Management and Handling) Rules, 2016 and subsequent amendment.	Condition noted and will be complied. All the member units will be instructed to comply with.

5. Top Soil Management:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.	Condition noted and will be complied. All the member units will be instructed to comply with.

6. Construction Debris disposal:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	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.	Condition noted and will be complied. All the member units will be instructed to comply with.
2.	Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dumpsites for such materials must be secured so that they should not leach into the adjacent land/lake/ stream etc.	Condition noted and will be complied. All the member units will be instructed to comply with.

7. Diesel Generator sets:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	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 there on.	Condition noted and will be complied. All the member units will be instructed to comply with.
2.	The diesel required for operating stand by DG sets shall be stored in underground tanks fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.	Condition noted and will be complied. All the member units will be instructed to comply with.
3.	The acoustic enclosures shall be installed	Condition noted and will be complied.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	at all noise generating equipment such as DG sets, air conditioning systems, cooling water tower etc.	All the member units will be instructed to comply with.

8.Air & Noise Pollution Control:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	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.	Condition noted and will be complied. All the member units will be instructed to comply with.
2.	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.	Condition is being complied. All the member units will be instructed to comply with. Ambient Air and Noise monitoring reports are attached as Annexure - 13.
3.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per DTCP norms. The traffic department shall be consulted and any cost-effective traffic regulative facility shall be met before commissioning.	Condition noted and will be complied. All the member units will be instructed to comply with.
4.	The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.	Condition noted and will be complied. All the member units will be instructed to comply with.

9. Building material:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	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.	Condition noted. All the member units will be instructed to comply with.
2.	Ready-mix concrete shall alone be used in building construction and necessary cube-tests should be conducted to ascertain their quality.	Condition noted. All the member units will be instructed to comply with.
3.	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.	Condition noted. All the member units will be instructed to comply with.

10. Storm Water Drainage:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.	Condition noted and will be complied. All the member units will be instructed to comply with.
2.	Storm water management plan shall be obtained by engaging the services of Anna University/IIT.	Condition noted and will be complied. All the member units will be instructed to comply with.

11. Energy Conservation Measures:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill	All the member units will be instructed to follow applicable rules and guidelines.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	requirement.	
2.	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.
3.	All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.	All the member units will be instructed to follow applicable rules and guidelines.
4.	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.	All the member units will be instructed to comply with.
5.	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's & U factors etc and submitted to the SEIAA in three month's time.	All the member units will be instructed to follow applicable rules and guidelines.
6.	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.	All the member units will be instructed to follow applicable rules and guidelines.

12. Fire Safety:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	Adequate fire protection equipments and	Condition noted and will be complied.

	rescue arrangements should be made as per the prescribed standards.	All the member units will be instructed to comply with.
2.	Proper and free approach road for fire-fighting vehicles up to the buildings and for rescue operations in the event of emergency shall be made.	Condition noted and will be complied. All the member units will be instructed to comply with.

13. Green Belt Development:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on there commendation of the Forest department well before the project is completed.	Condition noted and will be complied. All the member units also will be instructed to comply with.
2.	The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wild range of indigenous plants species should be planted in and around the premise in consultation with the DFO, Kancheepuram District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. If possible Miyawaki method of planting i.e planting different types of trees at very close escapement may be tried which will give a good green cover. A total of 15% of the plot area should be designated for green belt which should be raised	Condition noted and will be complied. All the member units also will be instructed to comply with.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	along the boundaries of the plot and in between blocks in an organized manner.	
3.	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.	Condition noted and will be complied. All the member units also will be instructed to comply with.
4.	The proponent has to earmark the greenbelt area with dimension and GPS Coordinates for the green belt area and the same shall be included in the layout plan to be submitted for DTCP approval.	Layout plan showing the green belt area earmarked with GPS coordinates is enclosed as Annexure-14 . The green belt layout plan is tentative only. However, SIPCOT will provide 35.33% of the developable area for green belt.

14. Sewage Treatment Plant:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The Sewage Treatment Plant (STP) installed should be certified by an independent expert/ reputed Academic institutions for its adequacy and are port 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.	. All the member units also will be instructed to comply with.
2.	The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA- TN.	All the member units also will be instructed to handle their domestic wastewater as per the prescribed norms. Acknowledgement copy of the letter submitted to SEIAA stating that SIPCOT will not propose STP is enclosed as Annexure – 10 .
3.	The project proponent shall operate and maintain the Sewage treatment Plant effectively to meet out the standards	All the member units also will be instructed to handle their domestic wastewater as per the prescribed norms.

S.NO	CONDITIONS	STATUS OF COMPLIANCE
	prescribed by the CPCB.	Acknowledgement copy of the letter submitted to SEIAA stating that SIPCOT will not propose STP is enclosed as Annexure – 10.
4.	The project proponent shall continuously operate and maintain the Sewage treatment plant to achieve the standards prescribed by the CPCB.	All the member units will be instructed to handle their domestic wastewater as per the prescribed norms.
5.	The project proponent has to ensure the complete recycling of treated sewage after achieving the standards prescribed by the CPCB.	. All the member units will be instructed to handle their domestic wastewater as per the prescribed norms.
6.	The project proponent has to provide separate standby D.G set for the STP for the continuous operation of the STP in case of power failure.	All the member units will be instructed to comply with.

15. Rain Water Harvesting:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	The proponent/ Owner of the Flats shall ensure that roof rain water collected from the covered roof of the buildings, etc. shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused.	Condition noted and will be complied. All the member units will be instructed to comply with.
2.	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.	Condition noted and will be complied. All the member units will be instructed to comply with.
3.	The project activity should not cause any disturbance & deterioration of the local bio diversity.	Condition noted.

16. Building Safety:

S.NO	CONDITIONS	STATUS OF COMPLIANCE
1.	Lightning arrester shall be properly designed and installed at top of the Building and where ever is necessary.	All the member units will be instructed to comply with.

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 during the period of April 2023 – September 2023.

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 is attached as **Annexure –13**.

5.2 Ambient Noise level monitoring

Ambient noise levels were monitored and the test report of ambient noise recorded during the period of April 2023 – September 2023 is enclosed as **Annexure - 13**.

5.3 Soil quality monitoring

Soil samples were collected and analyzed for nutrients and heavy metals. The test report of soil samples collected and analyzed during the period of April 2023 – September 2023 is enclosed as **Annexure –13**.

5.4 Ground water quality monitoring

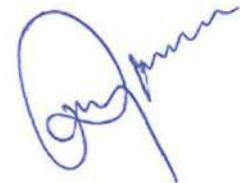
Ground water was tested for various water quality parameters during the period of April 2023 – September 2023. The test report of ground water samples collected and analyzed is enclosed as **Annexure-13**.

5.5 Surface water quality monitoring

The surface water was collected and tested for various water quality parameters during the period of April 2023 – September 2023. The test report of surface water collected and analyzed is enclosed as **Annexure-13**.

6.0 CONCLUSION

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



Dr. RAJKUMAR SAMUEL
Director Technical

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

ANNEXURE

ENVIRONMENTAL
CLEARANCE

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/MIS/65718/2021 dated 16 Jul 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC22B039TN177183 |
| 2. File No. | 7316/2020 |
| 3. Project Type | Expansion |
| 4. Category | B1 |
| 5. Project/Activity including Schedule No. | 8(b) Townships and Area Development projects. |
| 6. Name of Project | Expansion in VallamVadagal Industrial Park- II including Industrial Housing facility in an area of 131.73 Ha (325.36 Acres) |
| 7. Name of Company/Organization | STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SIPCOT) |
| 8. Location of Project | Tamil Nadu |
| 9. TOR Date | 05 Jul 2021 |

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

Date: 09/02/2022

(e-signed)
 Tmt.P.RAJESWARI,IFS
 Member Secretary
 SEIAA - (Tamil Nadu)

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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सत्यमेव जयते

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU

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

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F. 7316/EC/ 8(b)/797/2022 dated: 02.02.2022.

To

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

Sir,

Sub: SEIAA, TN - Environmental Clearance – Proposed Expansion & change in concept of Development of Vallam Vadagal Industrial Park II by including Industrial Housing facility for the employees of Vallam Vadagal IP –II is 131.73 Ha (325.36 Acres) (Exclusively for industries which does not require EC neither A nor B category Construction of Industrial Housing Facility with built up area 2,07,736.10Sq.m comprising 3120 no of units promoted by M/s. State Industries Promotion Corporation of Tamil Nadu Limited at Survey No: 237pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' Village & 271, 272 pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu - Issued – Regarding.

Ref: 1. Earlier EC issued vide Letter No. SEIAA-TN/F.No.7316/EC/8(b)/727/2020 dated:23.10.2020

2. Your application for Terms of Reference dated: 27.04.2021

3. ToR Issued by SEIAA-TN Vide Lr.No.SEIAA-TN/F.No.7316/SEAC/8(b)/ToR-


MEMBER SECRETARY
SEIAA-TN

967/2021 dated: 05.07.2021

4. EIA report submitted to SEIAA-TN on 19.07.2021
5. Minutes of the 233rd SEAC Meeting held on 21.09.2021
6. Proponent reply dated 01.10.2021
7. Minutes of the 239th SEAC Meeting held on 22.10.2021
8. Minutes of the 483rd SEIAA Meeting held on 28.01.2022

This has reference to your application 4th cited, the proposal is for obtaining Environmental Clearance to establish a construction project under Category B2 and Schedule S.No. 8(b) under the Environment Impact Assessment Notification, 2006, as amended.

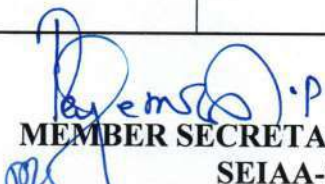
The Competent Authority and Authorized signatory furnished detailed information in Form 1 and Form 1A and liquidate enclosures are as Annexures:

Annexure 1

PROJECT DETAILS		
SL No	Description	Details
1)	Name of the Project proponent and address	The Managing Director M/s. State Industries Promotion Corporation of Tamil Nadu Limited. 19-A, Rukmani Lakshmi pathy Road Post Box no.7223 Egmore Chennai-600 008
2)	Proposed Activity	Expansion & change in concept of Development of Vallam Vadagal Industrial Park II by including Industrial Housing facility for the employees of Vallam Vadagal IP -II is 131.73 Ha (325.36 Acres) (Exclusively for industries which does not require EC neither A nor B category)


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		Construction of Industrial Housing Facility with built up area 2,07,736.10Sq.m comprising 3120 no of units promoted through SIPCOT.	
3)	Schedule No.	8(b)	
4)	Project Location		
	i)Survey No	237pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' Village & 271, 272 pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu	
	ii)Revenue Village	Vallam 'A' Village & Vallam 'B' Village	
	iii)Taluk	Sriperumbudur	
	iv)District	Kancheepuram	
5)	Area of the Land	With a total area of 131.73Ha (325.36Acres)	
6)	Built up Area		
	S. No	Details	Area in ha
			Area in Acre
	1.	Industrial Plots (including 33% green belt)	77.20
	2.	Industrial Housing Facility (Overall area- 30.83, OSR13-1.98, GB-2.19, Commercial-1.51, SWM-2.11 Acres, remaining Area- 23.04 excluding,)	9.33
	3.	Common amenities (Project Office including health centre, water	1.26
			3.10


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	supply, EB, Fire station, etc)		
4.	Commercial area (Bank, ATM, Shops, canteen, etc (Housing-1.51Acres+Industrial park-8.01Acres)	3.85	9.52
5.	Roads, Storm water drain	12.26	30.27
6.	Solid waste management (housing including Biomethanation -2.11 Acres + Industrial Park including E-waste -4.91 Acres)	2.84	7.02
7.	OSR area (Housing OSR 13-1.98 Acres + Industrial Park OSR 1 to12 -29.06 Acres)	12.57	31.04
8.	Greenbelt 3m along road side	3.0	7.41
9.	Greenbelt (Housing GB-2.19 Acres, Industrial Park(5m along periphery of site) - 6.09 Acres)	3.35	8.28
	Developable area	125.66	310.39
	Water bodies	6.06	14.97
	Total Area	131.73	325.36

S. No	Description	Area (Sq. m)
1.	Ground coverage for 13 Blocks	18885.10
2.	Commercial area	5714.14
3.	Health centre	400.0
4.	Sewage treatment plant	3100.0
5.	Solid waste management	3122.63
6.	Green Belt	8862.30
7.	Transformer Yard	200.0
8.	Road	26737.65
9.	Paver Block Area	19527.19
10.	O.S.R area	8005.87
11.	Road	24428.20
12.	Recreational area	30209.70


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		Total		1,24,764.58		
7)	<p>Brief description of the project</p> <p>“Development of Vallam-Vadagal industrial Park–II with Industrial Housing Facility” at an area of 131.73 Ha (325.36 Acres)</p> <p>Industrial Park is proposed for Non EC category industries.</p> <p>Industrial Housing - 13 Blocks each of S+10 floors (3120 no. of units) with total built up area 207736.10Sq.m. (to accommodate the employees of Vallam Vadagal IP -II)</p> <p>Built up area - 2,07,736.10 Sq.m</p>					
S.No	Floors	No of units /floor	No. of persons(@ 5 persons /unit)	FSI Area (Sq.m)	Non FSI Area (Sq.m)	Total Built up area (Sq.m)
1	Stilt	0	0	0	1452.70	1452.70
2	1 st Floor	24	120	1452.70	0	1452.70
3	2 nd Floor	24	120	1452.70	0	1452.70
4	3 rd Floor	24	120	1452.70	0	1452.70
5	4 th Floor	24	120	1452.70	0	1452.70
6	5 th Floor	24	120	1452.70	0	1452.70
7	6 th Floor	24	120	1452.70	0	1452.70
8	7 th Floor	24	120	1452.70	0	1452.70
9	8 th Floor	24	120	1452.70	0	1452.70
10	9 th Floor	24	120	1452.70	0	1452.70
11	10 th Floor	24	120	1452.70	0	1452.70


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	12	Total for 1 Block	240	1200	14,527	1452.70	15,979.70																								
	13	Total for 13 Blocks	3120	15,600	15979.70 x 13		2,07,736.10																								
8)	<p>Green Belt: 44.39Ha (109.66 Acres) (35.33% of total developable area of 125.66Ha(310.39Acres))</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Green belt area break up</th> <th>Area (Ha)</th> <th>Area (Acres)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OSR Area</td> <td>11.07</td> <td>27.35</td> </tr> <tr> <td>2</td> <td>33% green belt in industrial plots</td> <td>25.48</td> <td>62.94</td> </tr> <tr> <td>3</td> <td>Green belt 3m along road side</td> <td>3.0</td> <td>7.41</td> </tr> <tr> <td>4</td> <td>Additional Green belt</td> <td>4.84</td> <td>11.95</td> </tr> <tr> <td></td> <td>Total</td> <td>44.39</td> <td>109.65</td> </tr> </tbody> </table>							S.No	Green belt area break up	Area (Ha)	Area (Acres)	1	OSR Area	11.07	27.35	2	33% green belt in industrial plots	25.48	62.94	3	Green belt 3m along road side	3.0	7.41	4	Additional Green belt	4.84	11.95		Total	44.39	109.65
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4	Additional Green belt	4.84	11.95																												
	Total	44.39	109.65																												
9)	UTILITIES-WATER																														
	<p>(i) Total water requirement for the project after expansion & modification is 5763 KLD. (ii) Fresh water requirement -2094.5 KLD (iii) Recycled water -3668.5 KLD (iv) Flushing for Industrial Housing -704 KLD. (v) Process and Utilities -806.5 KLD (vi) Green belt development -1554 KLD (vii) Excess treated sewage of 145 KLD will be used for green belt development for Aerospace Park which is adjacent to the site.</p>																														
10)	a) Source from where the water is proposed to be drawn	Fresh water requirement will be met from Chembarambakkam Lake through metro water pipelines.																													
	Waste Water management :																														


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S.No	Wastewater source	Existing	After expansion & modification	Treatment
1	Sewage from industrial housing facility	Nil	1968 KLD	Treated in 2.5 MLD STP for Industrial Housing Facility. Treated sewage will be used for flushing for Industrial housing and green belt within the Industrial Park after disinfection. Excess treated sewage from housing facility will be sent to Aerospace Park which is adjacent to the site.
2	Sewage from industries	435 KLD	1039 KLD	Will be treated by individual industries and reused for flushing green belt development.
3	Effluent from individual industries	700 KLD	810 KLD	Will be treated by individual industries and reused for process and utilities. ZLD will be maintained by individual industries.

11) Solid Waste Management

S. No	Solid waste details	Quantity (kg/day)	Management
Industrial Park			
1	Organic waste	6520.5	Individual industries will segregate the waste and organic waste will be composted and used as manure.
2	Inorganic waste	4347.5	Sold to TNPCB authorized recyclers
Industrial Housing			


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	1	Organic Waste	4212	Segregated in SWM area proposed for Industrial housing and composted at site. Compost will be used as manure for green belt
	2	Inorganic waste	2808	Sold to TNPCB authorized recyclers
Hazardous Waste Generation and Management from Industrial Housing				
	S. No	Name of the materials	Quantity	Method of disposal
	1	5.1 -Used/Spent oil	131.4KL/A	Disposed to TNPCB authorized recyclers
	2	33.3- Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	2500 nos/Annum	Disposed to TNPCB authorized recyclers
12)	Power requirement		Existing Industrial Park - 21 MW from TANGEDCO After proposed expansion and Modification - 39 MW from TANGEDCO	
13)	Project Cost		Project cost for the proposed project is estimated at 1040 Crores which includes Rs.360 Crores for Industrial Park and Rs.680 Crores for Industrial Housing Facility	
14)	EMP Cost		Rs. 1825.93Lakhs	

Annexure 2- Affidavit

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

I, Thiru. T. Anand, 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 Lakshmi pathy Road, Egmore, Chennai – 600008, for


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the proposed "Development of Vallam Vadagal Industrial Park II with Industrial Housing Facility" over an extent of 131.73 Ha (325.36 Acres) at Survey No's: 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt,269pt, 270 of Vallam 'A' village and 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu State, hereby take oath and state as under in this affidavit:

- I. The total water requirement of the park is estimated at 5763 KLD (Fresh water: 2094.5 KLD and Recycled water: 3668.5 KLD). Fresh water requirement for the Industrial Park is proposed to be sourced from Chembarambakkam lake through Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB).
- II. Power Supply (39 MVA) will be ensured from Tamil Nadu Generation and Distribution Co. Ltd. (TANGEDCO) Facility as a common supply system by SIPCOT to all member industries. The Individual industries will avail power supply from TANGEDCO and may have backup DG sets as per their requirement. For Housing facility 2x1500 kVA DGs are proposed for power backup.
- III. All member industries will be instructed to provide rain water harvesting structures as per norms. SIPCOT will construct Rainwater harvesting pits along the storm water drain for recharging ground water.
- IV. Storm water drainage will be provided as open concrete channels all along the road for ensuring proper collection of storm water and the same will be used for recharging the rain water harvesting structures. We confirm that the storm water drain would not carry any untreated (or) treated sewage.
- V. All member industries will be instructed to have their own solid waste and hazardous storage facility within their Plot. Inorganic waste will be sold to TNPCB authorized recyclers/ service providers by member units. SIPCOT has earmarked 7.02 Acres of land for establishment of Solid Waste Management facility. Biomethanation plant of 12 TPD is proposed for the project to cater the Organic waste generation from the Industrial Park & Industrial housing facility.


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- VI. All member industries will be mandated to store and dispose the hazardous waste generated within their premises as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- VII. For the Industrial Housing facility, 2.5 MLD STP is proposed to treat the sewage generated from the Industrial Housing Facility and the treated sewage will be reused for flushing within the housing facility and for green belt development within the Industrial Park. Individual industries in the Industrial Park will be mandated to provide STP/ETP of adequate capacity and maintain Zero Liquid Discharge (ZLD) system.
- VIII. Overall Green Belt area of the park would be ≈ 109.65 acres i.e., 35.33% of developable area of 310.39 acres.

S.No	Green belt area break up	Area (Ha)	Area (Acres)
1	OSR Area	11.07	27.35
2	33% green belt in industrial plots	25.48	62.94
3	Green belt 3m along road side	3.0	7.41
4	Additional Green belt	4.84	11.95
	Total	44.39	109.65

- IX. EMP cost of the park is INR. 1825.93 Lakhs. Details are given below:

S.No	Project Components	Tentative Cost (INR lakhs)
1	Storm Water drains	1107.00
2	Solar Street Lights	98.00
3	Green Belt Development	11.53
4	Rain Water Harvesting	50.00
5	Solid Waste Management in Park	30.00
6	Health Centre /Medical Dispensary	25.00
7	STP for Industrial Housing (2.5 MLD), solar lighting	150.0
8	Stacks for Industrial Housing DG set	20.0


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S.No	Project Components	Tentative Cost (INR lakhs)
9	Biomethanation plant	55.0
10	E waste closed shed	269.00
11	Sanitary napkin incinerator for Industrial housing (130 nos)	10.4
	Total EMP Cost	1825.93

- X. As per Office Memorandum dated 1st May, 2018 from MoEF&CC, SIPCOT will earmark INR 520 Lakhs i.e., 0.5% of the project cost (Rs.1040 Crores) towards CER activities.

Declaration

I, Thiru. T. Anand, I.A.S., do hereby declare that the statement made by me under para (I) to (X) are true and correct to the best of my knowledge and belief. Nothing is false and nothing is concealed in it.

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


SEAC Remarks:

The proposal was again placed for appraisal in this 239th meeting of SEAC held on 22.10.2021. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of issue of Environmental Clearance subject to the following specific conditions, in addition to normal conditions stipulated by MOEF&CC:

1. The project proponent shall continuously operate and maintain the Sewage treatment plant & Grey Water Treatment Plant to achieve the standards prescribed by the TNPCB/CPCB.
2. The project proponent shall submit flood inundation certificate and shall fix the level according to the conditions issued in the certificate.
3. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to SEIAA.
4. The height of the stacks of DG sets shall be provided as per the CPCB norms.


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5. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
6. The proponent shall make proper arrangements for the disposal of the treated water from the proposed site for Toilet flushing, Green belt development & OSR and no treated water be let out of the premise.
7. The sludge generated from the Sewage Treatment Plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.
8. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
9. The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e. planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 15% of the total area and the same shall not be used for car parking/OSR.
10. 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.
11. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
12. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary


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Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.

13. No waste of any type to be disposed off in any other way other than the approved one.
14. The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.
15. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
16. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
17. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
18. Solar energy should be at least 10o/o of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
19. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 &.20.10.2020 the proponent shall furnish the detailed EMP and the project proponent shall create a good Environmental Awareness Institute mentioning all the activities as CER proposal and furnish the same before placing the subject to SEIAA.

SEIAA Remarks:

The subject was placed in the 483rd Authority meeting held on 28.01.2022. After detailed discussions, the Authority accepted the recommendations of SEAC and decided to grant of Environmental Clearance subject to the conditions as recommended by SEAC & normal condition in addition to the following conditions:

1. All the construction of Buildings shall be energy efficient and conform to the green building norms.
2. The proponent shall provide the adequate play area for the children within the premises.
3. The proponent shall provide the adequate health care facility within the premises.


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4. The proponent shall provide the adequate parking facility within the premises, with clear traffic plan.
5. All the eateries provided within the premises shall be maintained in hygienic way.
6. The proponent shall ensure that no treated or untreated trade effluent/sewage shall be discharged outside the premises under any circumstances.
7. The proponent shall ensure that the activities should not result in temperature raise, nor lead to rise in carbon dioxide and other gases that add to climate change.
8. All the trees, biodiversity and water bodies within the premises should be protected.
9. Action should be initiated to cover 33% of the total project area under green belt development with native species.
10. All mitigation measures as suggested in the EIA/EMP and disaster management plan to be strictly adhered.
11. The activities should in no way cause emission and buildup Green House Gases(GHG).
12. All actions to be eco friendly and support sustainable management of the natural resources within and outside premises.

Environmental Clearance along with the conditions containing four parts namely

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

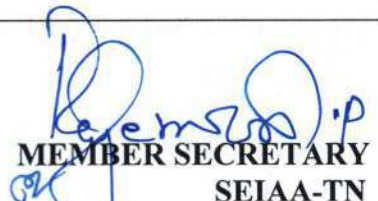
Part - B –Specific Conditions – Pre construction phase

Part - C - Specific Conditions – Construction phase

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

Validity:

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


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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, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.
3. The Environmental safeguards contained in the application of the proponent /mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.
4. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.
5. The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.
6. A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.
7. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
8. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full


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


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submitted false or misleading information or inadequate data for obtaining the environmental clearance.

16. The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.
17. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.
18. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
19. Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for every one tree that is cut) should be done with the obligation to continue maintenance.
20. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.
21. The EMP cost shall be deposited in a Nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
22. The project activity should not cause any disturbance & deterioration of the local bio diversity.
23. The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.
24. All the assessed flora & fauna should be conserved and protected.
25. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.


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26. As per MoEF & CC, GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site is located within 10KM from National Park and Sanctuaries.
27. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.
28. The safety measures proposed in the report should be strictly followed.
29. The Developer shall ensure that no allotment letter/ sale deed in any form shall be made to house category A or category B industry as prescribed in the schedule of EIA notification 2006. However, in case any category A or category B type of industry as prescribed in the schedule of EIA notification 2006 is proposed then the individual unit shall apply and seek Environmental Clearance under the EIA notification 2006.
30. The Developer shall mandate the member industries of the Industrial Park to allot 33% of the plot area for green belt development and to install RWH structures.
31. The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.
32. The project proponent shall ensure that the individual member units will not be allowed to carry out manufacturing of products stipulated in G.O. (Ms) No. 84 dated 25/06/2018 on banning of one time use on and throwaway plastics.
33. The project proponent must submit the permissible land use classification certificate obtained from competent authority for the proposed project before obtain the CTE from TNPCB.
34. The CER fund shall be utilized as per the office memorandum of MoEF & CC dated 01.05.2018 before obtaining CTO from TNPCB.
35. The allotted industrial units shall obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
36. The project proponent shall ensure that 33% of the total area of the project site should be covered with green belt.


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37. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
38. Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.
39. It is the sole responsibility of the proponent that the treated sewage disposed for green belt development/ avenue plantation should not pollute the soil/ ground water/ adjacent canals/ lakes/ ponds, etc.
40. The Developer has to ensure that all the member industries within the Industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents,
41. The project proponent shall ensure that all the member units should treat and dispose solid waste & E-waste as per the Solid Waste Management Rule 2016 as amended and E-Waste Management Rules, 2016
42. There shall be no discharge of effluent outside the Industrial Park at any time.
43. The Developer shall mandate the member units of the Industrial Park to install adequate APC measures/Acoustic to achieve air emissions standards within permissible limits prescribed by the CPCB.

Part - B – Specific Conditions – Pre construction phase:

1. The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.
2. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
3. A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.
4. The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of fire fighting equipments, etc as per


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National Building Code including protection measures from lightning etc before commencement of the work.

5. All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.
6. Design of buildings should be in conformity with the Seismic Zone Classifications.
7. The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
8. No construction activity of any kind shall be taken up in the OSR area.
9. Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.
10. The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.
11. The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.
12. The project proponent shall ensure the level of basement shall be above maximum flood level.
13. The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details
 - i. Location of STP, compost system, underground sewer line.
 - ii. Pipe Line conveying the treated effluent for green belt development.
 - iii. Pipe Line conveying the treated effluent for toilet flushing
 - iv. Water supply pipeline
 - v. Gas supply pipe line, if proposed
 - vi. Telephone cable
 - vii. Power cable
 - viii. Storm water drains, and
 - ix. Rain water harvesting system, etc., and it shall be made available to the owners


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

Part - C - Specific Conditions – Construction phase:

1. Construction Schedule:

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

2. Labour Welfare:

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


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health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.

3. Water Supply:

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

4. Solid Waste Management:

- i) In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be co-composted with biodegradables.
- ii) House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.
- iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.


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- iv) No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.
- v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.

5. Top Soil Management:

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

6. Construction Debris disposal:

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

7. Diesel Generator sets:

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

8. Air & Noise Pollution Control:


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

9. Building material:

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

10. Storm Water Drainage:

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

11. Energy Conservation Measures:


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

12. Fire Safety:

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

13. Green Belt Development:

- i) The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is completed.


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- ii) The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e. planting different types of trees at very close intervals may be tried which will give a good green cover. The proponent shall earmark the greenbelt area with CPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 15% of the total area and the same shall not be used for car parking/OSR.
- iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.
- iv) The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area and the same shall be included in the layout out plan to be submitted for DTCP approval

14. Sewage Treatment Plant:

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


MEMBER SECRETARY
SEIAA-TN

- iv) The project proponent shall continuously operate and maintain the Sewage treatment plant to achieve the standards prescribed by the CPCB.
- v) The project proponent has to ensure the complete recycling of treated sewage after achieving the standards prescribed by the CPCB.
- vi) The project proponent has to provide separate standby D.G set for the STP for the continuous operation of the STP in case of power failure.

15. Rain Water Harvesting:

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

16. Building Safety:

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

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

1. There should be Fire fighting plan and all required safety plan.
2. Regular fire drills should be held to create awareness among owners/ residents.
3. House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM rules 2016.
4. The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.


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SEIAA-TN

5. The project proponent has to furnish the certificate stating that the proposed site had not encroached any water body (rivers, canals, lakes, ponds, tanks, etc) from its original boundary shall be obtained from the competent authority before obtaining CTE from TNPCB.
6. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
7. Solar energy saving shall be increased to atleast 10% of total energy utilization.
8. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
9. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.
10. The EMP cost shall be printed in the Brochure / Pamphlet for the preparation of the sale of the property and should also mention the component involved.
11. The Project proponent shall get due permission from the wetland Authority before the commencement of the work, if applicable.
12. The project activities should in no way disturb the manmade structures.
13. The Proponent shall do afforestation/ restoration programme contemplated to strengthen the open spaces shall preferably include native species along with the financial forecast for planting and maintenance for 5 years.
14. "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
15. Raw water quality to be checked for portability and if necessary RO plant shall be provided.


MEMBER SECRETARY
SEIAA-TN

16. The Proponent should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in Environment Clearance (EC) order issued by the SEIAA-TN or the Proponent himself shall maintain all the above facilities for the entire period. The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.
17. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.
18. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP.
19. The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
20. Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.
21. The E - waste generated should be collected and disposed to a nearby authorized e-waste centre as per E- waste (Management & Handling), Rules 2016 as amended.
22. Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.
23. The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
24. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other Wastes (Management &


MEMBER SECRETARY
SEIAA-TN

Transboundary Movement) Rules 2016. Spent oil from D.G sets should be disposed off through registered recyclers.

25. The proponent is required to provide a house hold hazardous waste / E-waste collection and disposal mechanism.
26. The proponent/ Owner of the Flats shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.
27. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
28. A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with the allotment order / sale deed.
29. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.


MEMBER SECRETARY
SEIAA-TN

Copy to:

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

5. Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The District Collector, Kanchipuram District
7. Stock File.





TAMIL NADU POLLUTION CONTROL BOARD

Category of the Industry :

RED

CONSENT ORDER NO. 2201241526472 DATED: 27/06/2022.

PROCEEDINGS NO.T4/TNPCB/F.2934SPR/RL/SPR/A/2022 DATED: 27/06/2022

SUB: TNPC Board-Consent for Establishment-M/s. SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY , S.F. No. SF No. 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village; SF No. 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village , Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu., VALLAM A B BLOCK village, Sriperumbudur Taluk and Kancheepuram District - for the establishment or take steps to establish the industry under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987(Central Act. 14 of 1981)-Issued -Reg.

REF: 1. Unit's application no. 41526472 dated: 14.02.2022
2. IR.No : F.2934SPR/RL/AEE/SPR/2022 dated 01/06/2022
3. Minutes of the 199th TSC meeting vide item No. 199-07 dated:22.06.2022.

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

The Managing Director,

M/s . SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY

S.F No.SF No. 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village; SF No. 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village , Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.,

VALLAM A B BLOCK Village,

Sriperumbudur Taluk,

Kancheepuram District.

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

S.F No. SF No. 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village; SF No. 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village , Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.,

VALLAM A B BLOCK Village,

Sriperumbudur Taluk,

Kancheepuram District.

This Consent to establish is valid upto **February 01, 2029**, or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

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

To

The Managing Director,

M/s.SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY,

State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmipathy Road, Egmore, Chennai,Kancheepuram

District

Pin: 600008

Copy to:

1.The Executive Officer, SRIPERUMBUDUR-Town Panchayat, Sriperumbudur Taluk, Kancheepuram District .

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

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

4. File

SPECIAL CONDITIONS

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

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Development of Vallam Vadagal Industrial Park - II including Industrial Housing Facility for the employees of Vallam Vadagal IP II is 131.73 Hectares (325.36 acres) Exclusively for industries which does not require EC neither A nor B category and construction of Industrial Housing Facility with built up area 2,07,736.10 sq. m. comprising of 3120 units by SIPCOT	0	0

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

I Point source emission with stack :				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm3/hr
II Fugitive/Noise emission :				
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	

3. **Special Additional Conditions:**

- i. The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02151/2019 dated 10.06.2020 issued by TNPCB.
- ii. The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

4. **Additional Conditions:**

1. The SIPCOT shall obtain fresh EC if there is any change in its Scope/proposal with respect to water consumption, generation of sewage, Trade Effluent, Activities planned such as Housing facility for employees, etc.
2. The SIPCOT shall ensure that the Native trees are planted for development of green belt in 33% of the allotted area of SIPCOT and also by individual industries
3. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA vide SEIAATN/F-7316/EC/8(b)/797/2022 dated 02.02.2022.
4. The issue of CTE to the project shall not be construed as CTO and shall not commission the project without obtaining CTO from the Board.
5. The unit shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.
6. In accordance with Item No.9 of the EIA Notification, 2006, the unit shall possess valid EC while applying for CTE/ CTO of the Board.
7. In accordance with Item No.11 of the EIA Notification, 2006, any new industry shall obtain NOC from MoEF/ SEIAA in the event of transfer of original EC in a different name.
8. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.
9. The unit shall obtain and furnish the approved planning permission from the Competent Authority while applying for CTO of the Board.
10. The unit shall ensure that no process emission is let out from its activity.
11. The unit shall conduct Ambient Noise level survey report and Ambient Air Quality survey report for base line data to assess the quality of Ambient Air and Ambient Noise level and submit the report within one month's time.
12. The SIPCOT shall ensure that the allotted units are mandated that all the member industries to develop green belt in 33% of their allotted area.
13. The SIPCOT shall earmark the buffer zone all around the periphery of the layout.
14. The SIPCOT shall allow only housing the industries that do not attract the provisions of EIA notification 2006 as amended in the industrial park as per the EC obtained.
15. The SIPCOT shall allow only the employees of Industrial park to accommodate the housing facilities as per the EC obtained.
16. The SIPCOT shall properly develop the common amenities like road, Storm water drain, street lights, water supply pipelines and avenue plantation in OSR area
17. The unit shall ensure that the allotted industrial units obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
18. The SIPCOT shall ensure that the allotted units are mandated to implement own sewage treatment system for treating and disposing the sewage and shall ensure that no treated / untreated sewage shall gain access outside the unit premises on land / water source under any circumstances.
19. The unit shall allot minimum 5 plots of the total plot area (7.02 acres) for Solid Waste Management.
20. The unit shall remit consent fee in case of revision by the Government.

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

GENERAL CONDITIONS

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

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

** This consent order is computer generated by OCMMS of TNPCB and no signature is needed**



TAMIL NADU POLLUTION CONTROL BOARD

Category of the Industry :

RED

CONSENT ORDER NO. 2201141526472 DATED: 27/06/2022.

PROCEEDINGS NO.T4/TNPCB/F.2934SPR/RL//SPR/W/2022 DATED: 27/06/2022

SUB: TNPC Board-Consent for Establishment-M/S SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY S.F No. SF No. 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village; SF No. 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village , Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu., VALLAM A B BLOCK Village, Sriperumbudur Taluk, Kancheepuram District - for the establishment or take steps to establish the industry under Section 25 of the Water (Prevention and control of Pollution)Act,1974, as amended in 1988(Central Act 6 of 1974)- Issued- Reg.

REF: 1. Unit's application no. 41526472 dated: 14.02.2022
2. IR.No : F.2934SPR/RL/AEE/SPR/2022 dated 01/06/2022
3. Minutes of the 199th TSC meeting vide item No. 199-07 dated:22.06.2022.

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

The Managing Director,

SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY

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

S.F. No.SF No. 237 pt, 238, 239pt/1-133, 241pt, 242pt, 243, 247pt, 265, 266, 267, 268pt, 269pt, 270 of Vallam 'A' village; SF No. 271, 272pt, 275pt, 276pt, 277pt, 278, 279pt, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302 of Vallam 'B' Village , Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.,
VALLAM A B BLOCK Village,
Sriperumbudur Taluk,
Kancheepuram District.

This Consent to establish is valid upto **February 01, 2029**, or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Managing Director,
M/s.SIPCOT VALLAM VADAGAL INDUSTRIAL PARK - II WITH INDUSTRIAL HOUSING FACILITY,
State Industries Promotion Corporation of Tamilnadu Limited, 19-A, Rukmani Lakshmi pathy Road, Egmore, Chennai,
Pin: 600008

Copy to:

1. The Executive Officer, SRIPERUMBUDUR-Town Panchayat, Sriperumbudur Taluk, Kancheepuram District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, SRIPERUMBUDUR.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

SPECIAL CONDITIONS

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

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Development of Vallam Vadagal Industrial Park - II including Industrial Housing Facility for the employees of Vallam Vadagal IP II is 131.73 Hectares (325.36 acres) Exclusively for industries which does not require EC neither A nor B category and construction of Industrial Housing Facility with built up area 2,07,736.10 sq. m. comprising of 3120 units by SIPCOT	0	0

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

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

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

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	0.85	On Industrys own land
Effluent Type : Trade Effluent			

4. **Special Additional Conditions:**

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

5. **Additional Conditions:**

1. The SIPCOT shall obtain fresh EC if there is any change in its Scope/proposal with respect to water consumption, generation of sewage, Trade Effluent, Activities planned such as Housing facility for employees, etc.
2. The SIPCOT shall ensure that the Native trees are planted for development of green belt in 33% of the allotted area of SIPCOT and also by individual industries
3. The unit shall comply with the conditions as stipulated in the Environmental Clearance obtained from SEIAA vide SEIAATN/F-7316/EC/8(b)/797/2022 dated 02.02.2022.
4. The issue of CTE to the project shall not be construed as CTO and shall not commission the project without obtaining CTO from the Board.
5. The unit shall start its establishment activities only after getting the necessary project/building approvals from the competent authorities.
6. In accordance with Item No.9 of the EIA Notification, 2006, the unit shall possess valid EC while applying for CTE/ CTO of the Board.
7. In accordance with Item No.11 of the EIA Notification, 2006, any new industry shall obtain NOC from MoEF/ SEIAA in the event of transfer of original EC in a different name.
8. This consent order does not absolve from obtaining necessary permission / Clearance from other Authority or under other statutes as applicable.
9. The unit shall obtain and furnish the approved planning permission from the Competent Authority while applying for CTO of the Board.
10. The unit shall obtain and furnish permission for supply of fresh water from the competent authority while applying for CTO of the Board.
11. The stability of the entire building does not falls under the purview of the TNPCB Board.
12. The unit shall submit baseline data for ground water to assess the quality of ground water for 1 KM radius outside the boundary of the project and also inside available open wells within a month's time.
13. The unit has to ensure that all the member Industries within the industrial Park shall make their own arrangements to achieve zero discharge of the trade effluents, solid waste & E waste management, gaseous emission and noise control measures to achieve the standards prescribed by the TNPCB.
14. The SIPCOT shall earmark the buffer zone all around the periphery of the layout.
15. The SIPCOT shall allow only housing the industries that do not attract the provisions of EIA notification 2006 as amended in the industrial park as per the EC obtained.
16. The SIPCOT shall allow only the employees of Industrial park to accommodate the housing facilities as per the EC obtained.
17. The SIPCOT shall properly develop the common amenities like road, Storm water drain, street lights, water supply pipelines and avenue plantation in OSR area
18. The SIPCOT shall ensure that all the allotted industries shall implement ZLD system for treating the trade effluent and shall ensure that no treated / untreated sewage or trade effluent shall not gain access outside the unit premises on land/water sources under any circumstance as these proposed park falls under the catchment area of nearby eri's.
19. The SIPCOT shall provide a common solid waste treatment and disposal facility for the disposal of solid wastes (bio degradable wastes) to be generated from the industries.
20. The unit shall provide septic tank followed by soak pit to treat the sewage generated from the unit, so as to achieve the standards prescribed by the Board.
21. The unit shall ensure that the allotted industrial units obtain consent from the TNPCB separately for their establishment & operation in this industrial estate.
22. The SIPCOT shall ensure that the allotted units are mandated to implement own sewage treatment system for treating and disposing the sewage and shall ensure that no treated / untreated sewage shall gain access outside the unit premises on land / water source under any circumstances.
23. The unit shall allot minimum 5 plots of the total plot area (7.02 acres) for Solid Waste Management.
24. The SIPCOT shall ensure that the allotted units not dig any well or bore well inside their premises for drawing of ground water.
25. The SIPCOT shall ensure that the allotted units are mandated that the water courses/pathai leading to the Water bodies located in the surroundings will not be disturbed and in this regard a condition shall be imposed in the allotment order to the member units.
26. The proponent shall provide Rain Water Harvesting pits so as to recharge the ground water table.
27. The bio degradable solid waste, non bio degradable solid waste, STP sludge, etc generated from the project activity shall be properly collected, segregated and disposed as per the provision of Solid waste(Management and Handling) Rules,2016.
28. The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules, 2016.
29. The unit shall adopt safe and environment friendly management practices within the premises.
30. The unit shall provide solar powered lights for illumination of common areas, lighting for gardens and street lighting.
31. The unit shall ensure that the actual occupying units obtain consent from the TNPCB separately for their establishment & operation and should have valid consent of the Board for their activity.
32. The unit shall comply with the E- waste Management Rules, 2016. E-waste as listed in Schedule – I generated by them shall be channelized through collection centre or dealer of authorized producer or dismantler or recycler or through the designated take back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of e- waste generated by them in Form – 2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form -3, to the TNPCB on or before the 30th day of June following the financial year.
33. The unit shall remit consent fee in case of revision by the Government.

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

GENERAL CONDITIONS

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

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

** This consent order is computer generated by OCMMS of TNPCB and no signature is needed**



SIPCOT

P-III/EC/I/27207/2023/VV-II

Date: 25.09.2023

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

/RPAD/

Sir,

Sub: SIPCOT - Vallam Vadagal Industrial Park_II with Industrial Housing Facility -
Environmental Statement for the Financial Year ending 31st March 2023 -
Submitted - Reg.

Ref: SEIAA EC vide Letter No. SEIAA-TN/F.7316/EC/8(b)/797/2022 dated
02.02.2022.

With reference to the above, we hereby submit the Environmental Statement
in Form-V as prescribed under the Environmental (Protection) Rules, 1986 and its
subsequent amendment in respect of SIPCOT Vallam Vadagal Industrial Park - II
with Industrial Housing Facility at Vallam 'A' and Vallam 'B' Villages, Sriperumbudur
Taluk, Kancheepuram District, Tamil Nadu for the Financial Year ending 31st March
2023.

Yours faithfully,
Sd/-
MANAGING DIRECTOR

Encl: As above.

/Forwarded by Order/

ASSISTANT GENERAL MANAGER (P-III)



State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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

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

Annexure - 4

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

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

ENVIRONMENT MANAGEMENT

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

The Windows taskbar at the bottom shows the search bar, various application icons, and the system clock indicating 2:56 PM on 15-Nov-23.

ENVIRONMENTAL MANAGEMENT CELL

1. INTRODUCTION:

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

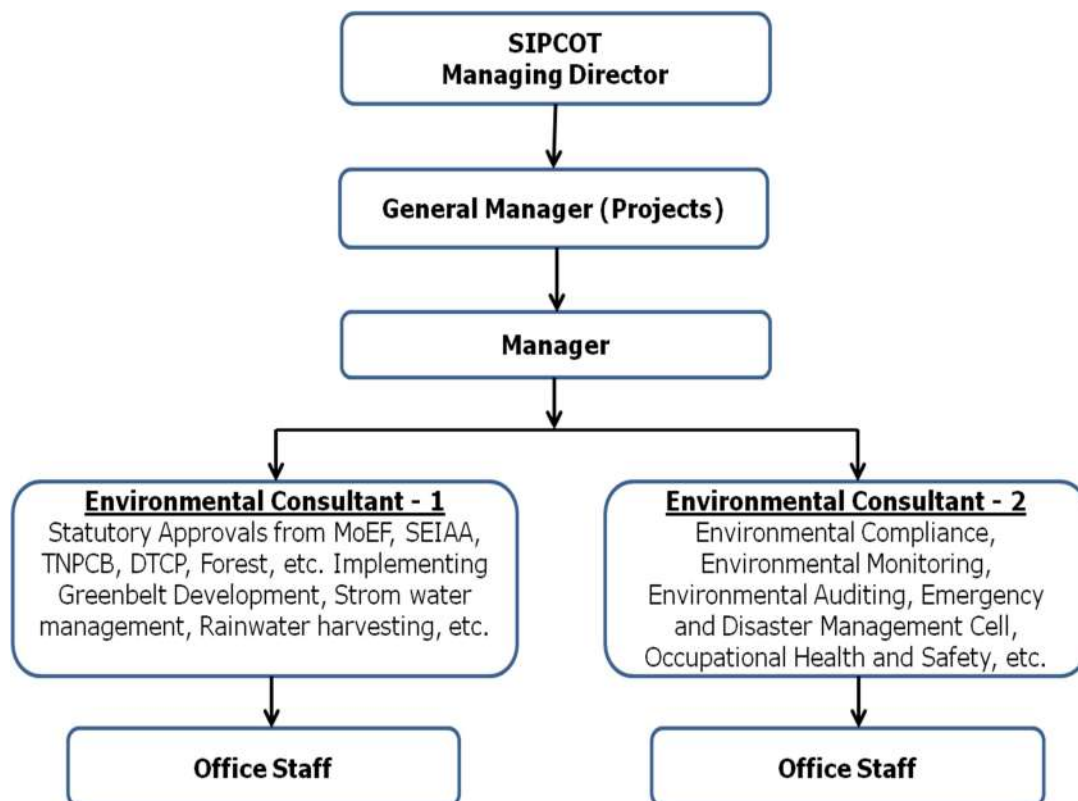


Figure - 1 Organogram for Environmental Management Cell

2. RESPONSIBILITIES OF ENVIRONMENTAL MANAGEMENT CELL:

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

Table – 1: Roles and responsibilities of EMC

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

ரத்து கிழ்ச்சி

தீர்கள். தமிழ்நாட்டின் உரிமைக்காக டெல்லியில் நமது உறுப்பினர்கள் குரல் கொடுப்பதை, வாதாடுவதை பார்க்குநீர்கள். சட்டமன்றத் தேர்தலில் மகத்தான வெற்றியை மக்களாகிய நீங்கள் கொடுத்தீர்கள். தமிழ்நாட்டின் வளத்திற்காக கோட்டையில் இருந்து திட்டங்களைத் தீட்டி வருகிறோம். ஆட்சிக்கு வந்தவுடனே, அதிமுக ஆட்சியில், கொரோனா பிடியில் சிக்கி, வாழ்வாதாரச் சிக்கலில் இருந்தவர்களுக்குத் தலா 4 ஆயிரம் ரூபாயை எந்தவிதமான பகாபகம்மிடமில்லாமல் தீர்த்து இருந்து பணியாற்றக் காத்திருக்கிறோம். இவ்வாறு அவர்களுக்கு உரையாற்றினார்.

வட்டங்களில் கு எதிராக சியிலிருந்து நீக்கம் ஸ் கூட்டாக அறிவிப்பு

பணியாற்றுகின்ற காரணங்களால், செங்கல்பட்டு மேற்கு மாவட்டத்தை சேர்ந்த நாகூர் கனி, (தாம்பரம் - மாவட்ட சிறுபான்மையினர் நலப் பிரிவு துணைச்செயலாளர்), சரளா (மறைமலைநகர் நகர அதிமுக இணைச்செயலாளர்), சரவணன் (மறைமலைநகர் நகர வர்த்தக அணி செயலாளர்), பிரகாஷ்குமார் (கடப்பேரி, தாம்பரம்), ஈரோடு மாநகர் மாவட்டத்தை சேர்ந்த தர்மலிங்கம் (13வது வட்ட செயலாளர்), நாகர்க்கினம்

வாக்கு எண்ணிக்கை மையத்தை வாலாஜாபேட்டையிலிருந்து சோளிங்கருக்கு மாற்றக்கோரி தொடரப்பட்ட வழக்கு தள்ளுபடி

உயர் நீதிமன்றம் உத்தரவு
சென்னை, பிப். 17: வாக்கு எண்ணிக்கையை எங்கு நடத்துவது என்று மாநில தேர்தல் ஆணையம் தான் முடிவெடுக்க வேண்டும் எனவும், நீதிமன்றம் எந்த உத்தரவையும் பிறப்பிக்க முடியாது எனவும் உத்தரவிட்ட உயர் நீதிமன்றம், வாக்கு எண்ணிக்கை மையத்தை மாற்றக்கோரிய மனுவை தள்ளுபடி செய்து உத்தரவிட்டது.
ராணிப்பேட்டை மாவட்டம், சோளிங்கர் நகராட்சி தேர்தலில் பதிவாகும் வாக்குகள், வாலாஜாபேட்டை அறிஞர் அண்ணா அரசு மகளிர் கலைக்கல்லூரியில் எண்ணப்படும் என்று அறிவிக்க

சீனிவாசன் என்பவர் உயர் நீதிமன்றத்தில் வழக்கு தொடர்ந்திருந்தார். இந்த வழக்கு தலைமை நீதிபதி முனீஸ்வர் நாத் பண்டாரி மற்றும் நீதிபதி பரத சக்கரவர்த்தி அடங்கிய அமர்வில் நேற்று விசாரணைக்கு வந்தது. அப்போது, சோளிங்கர் நகரில் இருந்து 25 கிலோ மீட்டர் தூரத்தில் உள்ள வாலாஜாபேட்டையில் அமைக்கப்பட்டுள்ள வாக்கு எண்ணிக்கை மையத்தை மாற்ற கோரி அளித்த மனுவை பரிசீலிக்க தேர்தல் ஆணையத்திற்கு உத்தரவிட வேண்டும் என்று மனுதாரர் தரப்பில் கோரப்பட்டது.
இதை ஏற்க மறுத்த நீதிபதிகள், வாக்கு எண்ணிக்கையை

TENDER NOTICE NO: 4365(TN-7)/GM(T)/DB/2021
For and on behalf of the Tamil Nadu Small Industries Development Corporation Limited, Chennai-32, Sealed Qualification & Price Bid (Two Cover) tender is invited from the Class I & Above contractors for the work mentioned below.
Date: 15.02.2022

SI N	Name of Work	EMD Rs. in Lakhs	Tentative Value of Work Rs. in Lakhs	Period of Completion
1	Construction of Workers' Hostel consists of Stilt + 5 Floors at TANSIDCO Industrial Estate, Ambattur in Chennai District	9.09	1797.34	24 (Twenty Four Months)

Date of Pre Bid Meeting - 14.03.2022 at 3:30 PM; Last date for receipt of tender - 22.03.2022 upto 3:00 PM; Date of tender opening - 22.03.2022 at 3:30 PM; Qualification & Price Bid Documents available for sale from 07.03.2022 to 21.03.2022; Cost of Bid Document including GST - Rs.17,700/-.
The other details and terms & conditions may be obtained from the office of the Superintending Engineer i/c, TANSIDCO, Chennai - 800032 and please visit the websites www.tenders.tn.gov.in & www.tansidco.tn.gov.in and the tender documents may be downloaded at free of cost.
SUPERINTENDING ENGINEER i/c TANSIDCO, CHENNAI - 32

தமிழ்நாடு தொழில் முன்னேற்ற நிறுவனம்
வல்லம் வடகால் தொழிற்பூங்கா - II, ஸ்ரீபெரும்புதூர் தாலுகா, காஞ்சிபுரம் மாவட்டம்

சுற்றுச்சூழல் இசைவாணை
மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையம், தமிழ்நாடு கடித எண்: SEIAA-TN/F.7316/EC/8(b)/797/2022 தேதி 02.02.2022 மூலம் வல்லம் A & B கிராமம், ஸ்ரீபெரும்புதூர் தாலுகா, காஞ்சிபுரம் மாவட்டத்தில் சிப்காட்டின் வல்லம் வடகால் தொழிற்பூங்கா-IIற்கான விரிவாக்கம் மற்றும் தொழில் குடியிருப்பு வசதிக்கு சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.
இவ்விசைவாணையின் முழுவிவரங்களை www.sipcot.tn.gov.in என்னும் சிப்காட் இணையதளத்திலும், மாநில மாசு கட்டுப்பாடு வாரியம் மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இணையதளத்திலும் பெற்றுக் கொள்ளலாம். மேலும் இவ்விசைவாணையின் நகலினை சிப்காட் தலைமை அலுவலகத்திலோ அல்லது திட்ட அலுவலகத்திலோ பெற்றுக்கொள்ளலாம்.
செ.ம.தொ.கி./074/வரைகலை/2022
மேலாண்மை இயக்குனர், சிப்காட், 19-அ, ருக்குமணி வீட்டுமட்பு சாலை, எழும்பூர், சென்னை-600 008.
சேதான கூட்டு கந்திரம் அடைந்தேன் சாதனை புரிந்து சரித்திரம் படைப்போம்.

அசையா சொத்துகள் விற்பனைக்கான மின்-ஏலம் வாய்து அறிவிப்பு
புத்தியலாக்கல் மற்றும் நிதிச் சொத்துகளை மறுசீரமைத்தல் மேலும் உள்ளீட்டுச் சொத்து மீளான உரிமை ஆலாக்கம் சட்டம், 2002 (இனிமேல் "சட்டம்") கீழ் இந்திய இன்சோலன்சி நிதி விபிஓட்டி (முன்னதாக இந்திய இன்சோலன்சி வி.ஓ.வசதி நிதி விபிஓட்டாக அறியப்பட்டது) (IFL-HFL) என்பதன் ஆலாயக இடம் மனை எண் 98, உத்யோக் வீழார், திவை-IV, குர்கான்-122015 (ஹரிப்பாசா) மற்றும் சினை ஆலாயக இடம்- எண் 1, ஆலாயக எண் 3E, 3வது தளம், சென்செல்டுள், வடக்கு உலாயன் சாலை, குரோளா எட்டிசியக் மையம், ராமிசுருத்தா தெரு, தி.த.சீ, சென்னை, தமிழ்நாடு-600017 வாய் ஆலாயக வைக்கப்பட்ட ஆலாயக சொத்து விற்பனை, நிவாரணிக்க இந்திய இன்சோலன்சி நிதி விபிஓட்டி-வி.ஓ.வசதி நிதி விபிஓட்டி ஆதினாயுதவ ஆதினாரி ("AO") பிராயசம் கூன் கணக்குகளுக்காய்க்கலாயர் என்களில் உடத்தின் பிரிவு 13(2) கீழ் வழங்கப்பட்ட அறிவிப்பினை பின்பற்றி இந்திய இன்சோலன்சி நிதி விபிஓட்டி-வி.ஓ.வசதி நிதி விபிஓட்டி நிவரணனை பவலாக மீட்டறக்காக "உள்ளது உள்ளித்திரில் ஆப்பலாயில் 2 உள்ளது உள்வாறு ஆப்பலாயில்" அதை விற்பனை செயல் உரிமையுடன் பின்வரும் சொத்துகளை கவரீனம் செய்கிறோம், விற்பனை www.banksauctions.com இணையதளத்தில் ஆதிக்கப்பட்ட மின்-ஏலம் தளம் வழியே கீழே கையொப்பம் செய்யப்படும்.
உட்புறநர்(கள்) / உட்புறநர்(கள்) / வளக்கிறநர்(கள்) / வளக்கிறநர்(கள்)
வரைக்கலை நகல் மற்றும் வரைக்கலை வரத்து விவரம்
கையெழுத்து உட்கட்டு
கையெழுத்து நகல்
நிர்ணய விவை
வரத்து பரவலில் நகல்

Vallam Vadagal Industrial Park - II with Industrial Housing Facility

English Advertisement - 'The Hindu' Dated 17.02.2022

Mr. Krishnankutty, had instigated the controversy. Kerala Chief Minister Pinarayi Vijayan has asked Mr. Krishnankutty to settle the imbroglio. Consequently, the Minister has invited trade union leaders for talks on Thursday.

CENTRAL UNIVERSITY OF SOUTH BIHAR
RECRUITMENT NOTICE - TEACHING POSITIONS
Advertisement No.- CUSB/Advt./37/2022 dated :17.02.2022
 Online applications in the prescribed form are invited from Indian citizens/Overseas Citizen of India (OCI) eligible for the post of **Professor/ Associate Professor / Assistant Professor** (in various programmes) on regular basis.
 For details of advertisement, filling of online application form and last date visit University Website : www.cusb.ac.in Registrar

SOUTHERN RAILWAY
ELECTRICAL (TRD) BRANCH,
TIRUCHCHIRAPPALLI
DIVISION
 For and on behalf of the President of India, the Divisional Railway Manager, Traction Distribution, Southern Railway, Tiruchchirappalli - 620001 invites online E-tenders from prospective tenderers / bidders for the following work.

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SIPCOT)
VALLAM VADAGAL INDUSTRIAL PARK - II
ENVIRONMENTAL CLEARANCE
 Environmental Clearance has been obtained for the proposed Expansion & Change in concept of Development of Vallam Vadagal Industrial Park-II including Industrial Housing Facility at Vallam 'A' & 'B' villages, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu from State Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide Letter No.: **SEIAA-TN/F.7316/EC/8(b)/797/2022** dated: **02.02.2022**.
 The Environmental Clearance (EC) letter can be downloaded from SIPCOT website www.sipcot.tn.gov.in. The clearance letter is available with the State Pollution Control Board and also in the website of SEIAA, TN. Further a copy of the EC shall be obtained from the Head Office/Project Office of SIPCOT.
MANAGING DIRECTOR
 SIPCOT, 19A, RUKMANI LAKSHMIPATHY ROAD, EGMORE, CHENNAI - 600 008.
 DIPR/074/Display/2022
 சேராதகன கட்டுத்து கதந்திரம் அடைந்தேரம். சாதகன பரிந்து, சரித்திரம் படைப்பேம்.

1. Tender Number **TPJ-TRD-2021-2022-15**; 2. Name of work : TPJ Div. - Developing of second entry at TPJ yard by extending the stabling line and connecting to third line to facilitate reception and dispatch of express trains - Electrical TRD Arrangements;
 3. Approx. value of tender : ₹ 1,18,03,963.00; 4. Cost of tender booklet : ₹ 5,600; 5. Earnest money deposit (EMD) : ₹ 2,09,100; 6. Date & Time of Bidding: **23.02.2022 to 14:00 Hours on 09.03.2022**; 7. Date & Time of Tender Opening: **After 15:00 Hours on 09.03.2022**; 8. Period of completion: **Nine Months**; 9. Period of validity of offer : **81 days from the date of tender opening**.
NOTE : 1) The prospective tenderers/bidders are requested to register themselves with IREPS (Indian Railway Electronic Procurement System), if not done already, for participating in E-Tenders, Registration form is available on IREPS site (Quick link New Vendors/ Contractors (E-Tender)).
 2) Contractors/Bidders are requested to procure Digital Signing Certificate (DSC) Class III or appropriate from Govt. of India, authorized Certifying authority (CCA-Controller of Certifying Authority) for participating in E-Tender & to log into IREPS.
 3) Payment of Tender Document Cost and EMD (if any) in respect of e-tendering, should be done through net banking or payment gateway only (online payment). Tenders received without tender document cost shall be rejected.
 4) Kindly log on to <http://www.ireps>.

Government of Jammu & Kashmir
OFFICE OF THE EXECUTIVE ENGINEER MECHANICAL HOSPITAL AND CENTRAL HEATING DIVISION SRINAGAR
(Tele-fax No: 0194-2496089, e-mail id: xenmhchdk@yahoo.in)
(Short-term)
(Fresh)
e -NIT NO: MHCHD/TS /2021-22 /331/e-tendering
Dated:-14.02.2022
 For and on behalf of the Lt. Governor, J&K UT e-tenders are invited from Authorized dealers of Suggested makes of SplitACs or Registered/ Reputed and experienced firms for the below mentioned work:-

Projects-II/Vallam Vadagal - II/2022

Date: 08.03.2022

The Member Secretary,
 State Level Environment Impact Assessment Authority,
 3rd Floor, Panagal Maligai,
 No.1. Jeenis Road,
 Saidapet, Chennai - 600 015.

/RPAD/

Sir,

Sub: SIPCOT - Vallam Vadagal Industrial Park - II Including Industrial Housing Facility- Submission of copy of the Press Release on issue of Environmental Clearance from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F.7316/EC/8(b)/797/2022 dated: 02.02.2022.

With reference to the above, we have obtained Environmental Clearance (EC) from SEIAA, TN. As per EC condition, the advertisement regarding issue of Environment Clearance for establishment of Vallam Vadagal Industrial Park - II Including Industrial Housing Facility has been released in 'The Hindu' Chennai edition dated 17.02.2022 in English language and 'Dinakaran' Chennai edition dated 17.02.2022 in Tamil Language.

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

Yours faithfully,

H. Prathapathy
 GENERAL MANAGER (P-II)

Encl.: As above.



*Madam,
 FC completed.
 O/c
 shah*

Projects- II/Vallam Vadagal-II/2022

Date: 08.03.2022

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

/RPAD/

Sir,

Sub: SIPCOT - Vallam Vadagal Industrial Park - II Including Industrial Housing Facility- Submission of copy of the Press Release on issue of Environmental Clearance from SEIAA - Forwarded - Reg.

Ref: SEIAA EC Letter No. SEIAA-TN/F.7316/EC/8(b)/797/2022 dated: 02.02.2022.

With reference to the above, we have obtained Environmental Clearance (EC) from SEIAA, TN. As per EC condition, the advertisement regarding issue of Environment Clearance for establishment of Vallam Vadagal Industrial Park - II Including Industrial Housing Facility has been released in 'The Hindu' Chennai edition dated 17.02.2022 in English language and 'Dinakaran' Chennai edition dated 17.02.2022 in Tamil Language.

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

Yours faithfully,

HJ
GENERAL MANAGER (P-II)

Encl.: As above.



*Madam,
Fc compared
o/c.
skh.*



Annexure-8

SIPCOT

Projects-II/EC/Vallam Vadagai-II /2022

Date: 18.02.2022

The President,
Vallam Village Panchayat,
Sriperumbudur Taluk,
Kancheepuram District,
Tamil Nadu.

/RPAD/

Sir,

Sub: SIPCOT - Development of Vallam Vadagai Industrial Park - II including Industrial Housing Facility at Vallam A & B Village, Sriperumbudur Taluk, Kancheepuram District - Submission of Copy of Environmental Clearance issued by SEIAA - Regarding.

Ref: Lr.No.SEIAA-TN/F.7316/EC/8(b)/797/2022 dated: 02.02.2022.

With reference to the above, we have obtained Environmental Clearance (EC) for the proposed Establishment of Vallam Vadagai Industrial Park - II including Industrial Housing Facility in an area of 131.73 hectares (325.36 acres) at Vallam A & B Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu from SEIAA, TN. The copy of Environmental Clearance has been enclosed here with for your kind perusal.

Yours faithfully,
Sd/--

GENERAL MANAGER (P-II)

/Forwarded by Order/

N. Sankar
ASSISATANT MANAGER (P-II)

Encl: As above.

Copy to:

The Project Officer,
SIPCOT Industrial Park, **வல்லம் ஊராட்சி மன்றம்,**
Vallam Vadagai.

/BY MAIL/

State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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

Phone : 45261777 Fax : 45261796 Website : www.siocot.tn.gov.in

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



SIPCOT

Annexure-10

Date: 13.04.2022

Projects-II/EIA/VV-II/EC/2022

The Member Secretary,
State Level Environment Impact Assessment Authority,
3rd Floor, Panagal Maligal,
No1. Jeenis Road, Saidapet,
Chennai-600015.

Sir,

Sub: SIPCOT - Request for revision of points in Environmental Clearance issued for the proposed 'Development of Vallam Vadagal Industrial Park - II including Industrial Housing Facility in an area of 131.73 Hec (325.36 acres)' at Vallam A and Vallam B Villages of Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu - Submitted - Reg.

- Ref: 1. EC File No: 7316/2020
2. EC identification No. EC22B039TN177183
3. EC issued vide Letter No. SEIAA-TN/F.No.7316/EC/8(b)/797/2022 dated 02/02/2022

With reference to the above subject, we request for revision of the following points in the EC:

S. No.	Points requested for revision	Revision needed
1.	Page No. 3 and Page No. 12, it is mentioned as 8(b) - 'B2' category.	The project fall under 8(b) - 'B1' category. Hence, the point shall be revised to 'B1' Category.
2.	Page No. 5, Project details No. 6 Built up area details S.No.11 Roads -24428.20 sq.m	Road area in Industrial Housing Facility is 26,737.65 sq.m, which is mentioned in S.No.8. But again the road area of 24,428.20 sq.m. is wrongly mentioned in S.No.11. Hence, it is requested to remove road area mentioned in S.No.11.
3.	Page No. 8, Wastewater management. S.No. 2 - sewage from industries in existing column is mentioned as 435 KLD	As per the earlier issued EC / existing sewage water was envisaged at 405 KLD. It is requested to revise the existing sewage quantity as 405 KLD.
4.	Page No. 12, SEAC remarks No. 1, The Project Proponent shall continuously operate & maintain Sewage Treatment Plant & Grey water treatment plant to achieve standards prescribed by CPCB/TNPCB.	SIPCOT has not proposed STP in the Industrial Park. The individual industries will be having their own STP/ ETP as applicable and treat the wastewater generated as per norms.

22 APR 2022

State Industries Promotion Corporation of Tamil Nadu Limited

(A Government of Tamil Nadu Undertaking)

CIN : U74999TN1971SGC005967

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



SIPCOT

S. No.	Points requested for revision	Revision needed
		<p>SIPCOT in its lease deed will instruct the individual units to install sewage and wastewater treatment and recycling plant and steps to recover and recycle the wastewater thereby achieve zero liquid discharge as per the norms stipulated by TNPCB/CPCB.</p> <p>It is requested to exempt this condition from the EC.</p>
5.	<p>Page No.21, Part B Specific conditions Pre construction No. 13.</p> <p>The proponent shall prepare completion plans showing separate pipelines marked with different color codes with following details</p> <ul style="list-style-type: none">• Location of STP, compost system, underground sewer line• Pipeline conveying treated effluent for green belt• Pipeline conveying treated effluent for toilet• Water supply pipeline• Gas supply pipeline if proposed• Telephone cable• Power cable• Storm water drain• Rainwater harvesting system shall be made available to the owners.	<p>SIPCOT has not proposed STP in the Industrial Park. The individual industries will be having their own STP/ ETP as applicable and treat the waste water generated as per norms.</p> <p>It is requested to exempt this condition from the EC.</p>

We request your good selves to kindly revise the above points in the Environmental Clearance at the earliest.

Thanking you,

Yours faithfully
Sd/-

MANAGING DIRECTOR

//Forwarded by Order//

H. Prathapathy
GENERAL MANAGER (P-II)

Copy to:

The Project Officer,
SIPCOT Industrial Park, Vallam Vadagal.

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

CIN : U74999TN1971SGC005967

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

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

SIPCOT – VALLAM VADAGAL II MONITORING PHOTOS

AMBIENT AIR QUALITY MONITORING PHOTOS:



Project site



Eraiyr



Vallakottai



Vallam



Kovalavedu

Ground water sampling photos



Project area



Eraiyr



Vallakottai

Surface water sampling photograph



Perinjambakkam Lake



Thenneri Lake

Soil sampling photograph



Project area



Eraiyyur



Vallakottai



Vallam

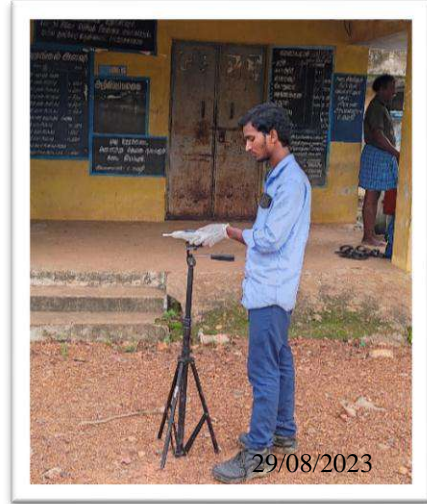


Kovalavedu

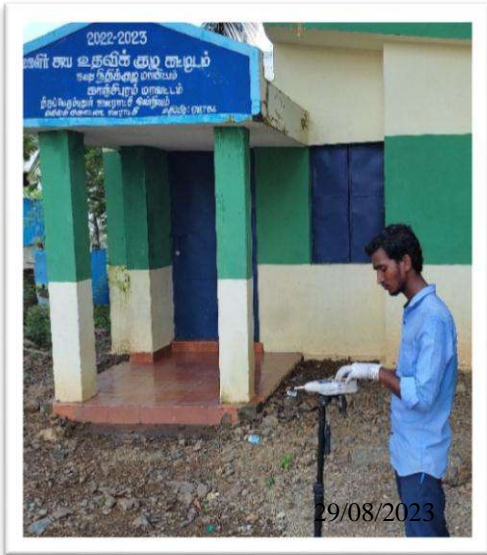
Noise monitoring photograph



Project area



Eraiur



Vallakottai



Vallam



Kovalavedu

பாசனம் - லக்ஷா மாவட்டம் - திருப்பெரும்புளர் வட்டம் - இருங்காட்டுக் கோட்டை கிராமம் - அங்காட் தொழில் வளாகத்தில் அமைந்திருக்கிற தொழிற்சாலைக்கு - செம்பரம்பாக்கம் ஏரியிலிருந்து, ஓடநீர் மறிமம் நிலங்களுக்கு நீர்ப்பாசனம் போக எஞ்சிய நீரால் 5 மில்லியன் கன அட. நீர் - வழங்குதல் - ஆணை வெளியிடப் படுகிறது.



பொதுப்பணி (புதுப்பிப்பு)

அரசு ஆணை (நிலை) 134

நாள்: 31.3.1997

படிக்கவும்:

24/4

- 1. மேலாண்மை இயக்குநர், அங்காட் தேர்வுக் கமிட்டி என். 1026/96 நாள்: 2.9.1996.
- 2. தலைமைப்பொறியாளர், நீர்வள ஆதார அமைப்பு, சென்னை மண்டலம், இருங்காட்டு ஓடநீர் வழங்கல்சிறை கமிட்டி என். பி.என். 1/5250/96, நாள்: 24.12.1996.

பார்வை 1ல் கட்ட கமிட்டியில் அங்காட், மேலாண்மை இயக்குநர் இருங்காட்டுக்கோட்டை அங்காட் தொழில்-வளாகத்திற்கு, அங்கு அமையவுள்ள உரக்கடாய்காரர் தொழிற்சாலைக்கு தேவையான 1.1 மில்லியன் கன அட தண்ணீர் உட்பட மொத்தம் சுமார் 10 மில்லியன் கன அட தண்ணீர் தேவை எனத் தேட்டுக் கொண்டுள்ளார்.

2. பார்வை 2ல் கட்ட கமிட்டியில் தலைமைப்பொறியாளர் நீர் வள ஆதார அமைப்பு சென்னை மண்டலம் மற்றும் இருங்காட்டு ஓடநீர் வழங்கல் திட்டம், கடந்த காலங்களில் செம்பரம்பாக்கம் ஏரியில் உள்ள நீர் நிலை ஒரே சீராகவும், 1992ம் ஆண்டு 485 மில்லியன் கன அடியாகவும் 1980ம் ஆண்டு 711 மில்லியன் கன அடியாகவும், 1992ம் ஆண்டு 485 மில்லியன் கன அடியாகவும் 1996ம் ஆண்டு 2401 மில்லியன் கன அடியாகவும் இருந்தன. குறிப்பிட்டுள்ளார். மேலும் பதிவு செய்யப் பட்டுள்ள 13,223 ஏக்கர் ஆயக்கட்டுகளில் தற்போது விவசாயம் செய்யப்பட்டு வரும் 9800 ஏக்கர் நிலங்களுக்கு நீர்பாசனம் செய்தாக வேண்டும் என்ற நிலை உள்ளது எனவும் குறிப்பிட்டுள்ளார். மேலும் இத்தொகுதி சென்னை மாநகருக்கு ஓடநீர் வசதியும் செம்பரம்பாக்கம் ஏரியிலிருந்து வழங்க வேண்டியிருப்பதால் நீர் இருப்பை கருத்தில் கொண்டு தாது தண்ணீர் வழங்க இயலும் என்று குறிப்பிட்டுள்ளார்.

3. தலைமைப்பொறியாளர் (சென்னை மண்டலம் மற்றும் இருங்காட்டு ஓடநீர் வழங்கல் திட்டம்) டி விளக்கத்தை கருத்திற்கொண்டு அங்காட் தொழில் வளாகத்திற்கு செயற்குறிப்பை அரசு பரிசீலித்தது.

செம்பரம்பாக்கம் ஏரியில் நீர் இருப்பிற்கான, பதிவு செய்யப் பட்ட ஆயக்கட்டு பகுதிகளுக்கான தேவையான தண்ணீர் மறிமம் சென்னை நகருக்கு ஓடநீருக்குத் தேவையான ஓடநீரை புரித்தி செய்த படி செம்பரம்பாக்கம்



Handwritten signature and text: /உய்பா/ அங்காட்டு தொழில் வளாகத்திற்கு தண்ணீர் விநியோகம்.

Handwritten signature and date: 21/4

Handwritten initials: SE

Handwritten signature and date: 22/4

Handwritten note: Madam, Seen by claim.

AEK.

Pl. Send a copy of this to SIPWT, GM (Th. Pondy) for information.

ஏற்பிடுதல் நான் ஒட்டுக்கு 5 மில்லியன் என ஒரு சிப்காட் தொழில் வளாகத்தில் வறங்குவதற்கு அரசு உடையிடலாம். மேற்கண்ட உடையிடலான நிறைவேற்றம், சிப்காட் தொழில் வளாகத்திற்கு பொதுப்பணித்துறையின் புதிய நிபந்தனைகளுக்கு உட்பட்டு ஒப்பந்தத்தில் கையொப்பமிட்ட பின்னரே நீர் வறங்க வேண்டும் என உடையிடப்பொதுபாளர் சென்னை மண்டலம் மற்றும் சிஞ்சுதனா குடிநீர் வறங்கல் திட்டம் அறிவுறுத்தப்படுகிறது.

(ஆளுநர் ஆணைப்படி)

என்.பி. சந்திரா,
அரசாங்க செயலர்.

பெயர்:

தலைமைப்பொதுபாளர்,
நீர்வள ஆதார அமைப்பு, சென்னை.5.

தலைமைப்பொதுபாளர்,
நீர்வள ஆதார அமைப்பு,
சென்னை மண்டலம் மற்றும் சிஞ்சுதனா குடிநீர்
மற்றும் வறங்கல் துறை,
✓மேலாட்சிமையுடைய குடிநீர்,
தமிழ்நாடு தொழில் வளர்ச்சி துறை,
19 ஏ. ரூக்கணி வடக்கம்பதி ரோடு,
எழும்புர், சென்னை.8.
இவ்வட்ட ஆட்சியர், ஆணை மாவட்டம்.

நகல்:

தொழில்நுறை சென்னை.5
நகராட்சி நிர்வாகம் மற்றும் குடிநீர் வறங்கல் துறை,
சென்னை.5.

/ஆணைப்படி/ அனுப்பப்படுகிறது /

பி. என். சந்திரா
பிரதி செயலர் 3/4/97

Hubert Enviro Care Systems (P) Ltd.

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Annexure - 13
Laboratory Services Division
(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/AA/18/310823
Report Date : 05/09/2023

Sample Description : Ambient Air Quality
Sampling Location : Project Area
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On: 05/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	13.16	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	24.48	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	46.20	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	23.84	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	11.83	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	6.15	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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

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

End of Report




Authorized Signatory

D. ANUSUYA
Deputy Q...

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase IIReport No. : HECSL/AA/19/310823
Report Date : 05/09/2023Sample Description : Ambient Air Quality
Sampling Location : Eraiyur
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On: 05/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	10.75	CPCB guide lines Volume I: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	21.68	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	45.33	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	24.18	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	11.88	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	7.25	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/NS/SOP/073	NA	NA

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

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

End of Report



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D. ANUSUYA
Deputy Quality

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase IIReport No. : HECSL/AA/20/310823
Report Date : 05/09/2023Sample Description : Ambient Air Quality
Sampling Location : Vallakottai
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On: 05/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	10.17	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	22.06	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	38.06	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	22.10	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 10)	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	7.57	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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

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

End of Report




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D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase IIReport No. : HECSL/AA/21/310823
Report Date : 05/09/2023Sample Description : Ambient Air Quality
Sampling Location : Kovalavedu
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 30/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On: 05/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	9.42	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	20.66	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	42.15	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	23.88	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	BLQ(LOQ10)	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	5.83	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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

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

End of Report



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D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase IIReport No. : HECSL/AA/22/310823
Report Date : 05/09/2023Sample Description : Ambient Air Quality
Sampling Location : Vallam
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 30/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On: 05/09/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	$\mu\text{g}/\text{m}^3$	13.76	CPCB guide lines Volume 1: 2012	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	$\mu\text{g}/\text{m}^3$	24.84	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 μm	$\mu\text{g}/\text{m}^3$	55.39	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 μm	$\mu\text{g}/\text{m}^3$	25.65	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m^3	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	IS 5182 (Part - 22) : 2004	1 (24 hours)	0.5 (Annual)
7	Ozone	$\mu\text{g}/\text{m}^3$	10.47	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	$\mu\text{g}/\text{m}^3$	7.46	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m^3	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m^3	BLQ(LOQ 2)	HECS/AA/SOP/019 : 2016	6 (Annual)	6 (Annual)
12	Nickel	ng/m^3	BLQ(LOQ 10)	HECS/AA/SOP/009 : 2016	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	$\mu\text{g}/\text{m}^3$	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA

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

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

End of Report



Authorized Signatory

D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II
Sample Description : WATER
Sample Mark Sample : Eraiyur-Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Report No. : HECSL/WT/011/310823
Report Date : 05/09/2023

Completed On: 05/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	8.05	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	180.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	883.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	BLQ(LOQ:1.0)	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	145	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	48.50	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	145.99	4500 Cl --- B APHA 23rd Edn. 2017	250	1000
9	Magnesium as Mg	mg/l	35.24	IS 3025 (Part - 46):1994	30	100
10	Total Dissolved Solids	mg/l	495.0	IS 3025(Part -16):1984	500	2000
11	Sulphate as SO ₄	mg/l	48.62	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	0.39	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	5.21	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 53):2003	1.0	No Relaxation
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
17	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.003	No Relaxation
20	Lead as Pb	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	0.01	No Relaxation
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	0.05



(Signature)
Authorized Signatory

D. ANUSUYA
Deputy Quality Manager

TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase IIReport No. : HECSL/WT/011/310823
Report Date : 05/09/2023Sample Description : WATER
Sample Mark Sample : Eraiyur-Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On: 05/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Arsenic as As	mg/l	BLQ(LOQ:0.0005)	USEPA Method 200.8:1994	0.01	0.05
24	Sodium as Na	mg/l	71.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	4.0	IS3025 (Part - 45):1993	NA	NA
26	Phosphate as PO ₄	mg/l	0.098	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	BLQ(:LOQ:0.01)	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(:LOQ:0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD,3 days @27°C as O ₂	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.7	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	0.029	IS 3025 (Pt 31) : 1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	219.6	IS 3025 (Part - 23):1986	NA	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1
39	Percent Sodium as Na	%	36.10	IS 3025(Part-45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr ⁶⁺	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	1.89	IS 11624 - 1986	NA	NA

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

End of Report



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Laboratory Services Division

(Chemical & Biological Testing)

Recognized by MoEF, BIS

FSSAI Notified Laboratory

ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/WT/021/310823
Report Date : 05/09/2023

Sample Description : WATER
Sample Mark Sample : Near Project Area-Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On : 05/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.63	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	140.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	914.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	0.5	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	277.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	59.72	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	137.58	4500 Cl --- B APHA 23rd Edn. 2017	250	1000
9	Magnesium as Mg	mg/l	31.11	IS 3025 (Part - 46) 1994	30	100
10	Total Dissolved Solids	mg/l	512.0	IS 3025(Part -16):1984	500	2000
11	Sulphate as SO ₄	mg/l	94.15	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	0.39	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	8.12	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	0.034	IS 3025 (Part - 53):2003	1.0	No Relaxation
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
17	Copper as Cu	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.05	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.003	No Relaxation
20	Lead as Pb	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	0.01	No Relaxation
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	0.05




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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/WT/021/310823

Report Date : 05/09/2023

Sample Description : WATER
Sample Mark Sample : Near Project Area-Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On : 05/09/2023

S.No.	Parameters	Units	Results	Test Method	IS: 10500-2012	
					Acceptable Limits	Permissible Limits
23	Arsenic as As	mg/l	BLQ(LOQ:0.0005)	USEPA Method 200.8:1994	0.01	0.05
24	Sodium as Na	mg/l	65.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	4.0	IS3025 (Part - 45):1993	NA	NA
26	Phosphate as PO4	mg/l	0.096	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.05	No Relaxation
31	BOD,3 days @27°C as O2	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as O2	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.4	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	0.029	IS 3025 (Pt 31):1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	170.8	IS 3025 (Part - 23):1986	NA	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1
39	Percent Sodium as Na	%	33.22	IS 3025(Part-45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52:2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	1.69	IS 11624 - 1986	NA	NA

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

End of Report



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TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/WT/020/310823
Report Date : 05/09/2023

Sample Description : WATER
Sample Mark Sample : Vallakottai-Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On: 05/09/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.83	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Total Alkalinity as CaCO ₃	mg/l	160.0	IS 3025 (Part - 23):1986	200	600
3	Electrical conductivity	µS/cm	1037.0	IS 3025 (Part - 14):1983	NA	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
5	Turbidity	NTU	0.9	IS 3025(Part - 10):1984	1	5
6	Total Hardness as CaCO ₃	mg/l	323.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	67.33	IS 3025 (Part - 40):1991	75	200
8	Chloride as Cl	mg/l	167.27	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
9	Magnesium as Mg	mg/l	37.67	IS 3025 (Part - 46):1994	30	100
10	Total Dissolved Solids	mg/l	581.0	IS 3025(Part -16):1984	500	2000
11	Sulphate as SO ₄	mg/l	92.16	IS 3025(Part - 24):1986	200	400
12	Fluoride	mg/l	0.44	IS 3025 (Part - 60):1986	1.0	1.5
13	Nitrate as NO ₃	mg/l	7.56	IS 3025 (Part 34): 1988	45	No Relaxation
14	Iron as Fe	mg/l	0.057	IS 3025 (Part - 53):2003	1.0	No Relaxation
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
17	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
19	Cadmium as Cd	mg/l	BLQ(LOQ)	USEPA Method 200.8:1994	0.003	No Relaxation
20	Lead as Pb	mg/l	BLQ(LOQ)	USEPA Method 200.8:1994	0.01	No Relaxation
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	0.05




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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/WT/020/310823
Report Date : 05/09/2023

Sample Description : WATER
Sample Mark Sample : Vallakottai-Ground Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On : 05/09/2023

S.No	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Arsenic as As	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	0.05
24	Sodium as Na	mg/l	80.0	IS3025 (Part - 45):1993	NA	NA
25	Potassium as K	mg/l	5.0	IS3025 (Part - 45):1993	NA	NA
26	Phosphate as PO ₄	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part 31):1988	NA	NA
27	Total suspended solid	mg/l	2.0	IS 3025 (Part - 17):1984	NA	NA
28	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
30	Total Chromium	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8 : 1994	0.05	No Relaxation
31	BOD,3 days @27°C as O ₂	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 44):1993	NA	NA
32	Chemical oxygen demand as	mg/l	BLQ(LOQ:4.0)	IS 3025 (Part - 58):2006	NA	NA
33	Dissolved oxygen	mg/l	6.9	IS 3025 (Part - 38):1989	NA	NA
34	Total Phosphorous as P	mg/l	BLQ(LOQ:0.02)	IS 3025 (Pr 31) : 1988	NA	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA	NA
36	Bi Carbonate	mg/l	195.2	IS 3025 (Part - 23):1986	NA	NA
37	Phenolic compounds as	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	I
39	Percent Sodium as Na	%	34.40	IS 3025(Part -45) 1993	NA	NA
40	Barium as Ba	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
41	Chromium as Cr ⁶⁺	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA	NA
44	Sodium Absorption Ratio	-	1.93	IS 11624 - 1986	NA	NA

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

End of Report




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TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/WT/012/310823
Report Date : 05/09/2023

Sample Description : WATER
Sample Mark Sample : Lake Near Perinjambakkam- Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 30/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On : 05/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296Class-A)
1	pH (at 25 °C)	-	7.37	IS 3025 (Part - 11):1983	6.5-8.5
2	Total Alkalinity as CaCO ₃	mg/l	100.0	IS 3025 (Part - 23):1986	NA
3	Electrical conductivity	µS/cm	632.0	IS 3025 (Part - 14):1983	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	10
5	Turbidity	NTU	3.6	IS 3025(Part - 10):1984	1
6	Total Hardness as CaCO ₃	mg/l	160.0	IS 3025 (Part - 21):1983	200
7	Calcium as Ca	mg/l	34.07	IS 3025 (Part - 40):1991	NA
8	Chloride as Cl	mg/l	116.30	4500 Cl --- B APHA 23rd Edn: 2017	250
9	Magnesium as Mg	mg/l	18.23	IS 3025 (Part - 46):1994	NA
10	Total Dissolved Solids	mg/l	354.0	IS 3025(Part -16):1984	500
11	Sulphate as SO ₄	mg/l	27.56	IS 3025(Part - 24):1986	400
12	Fluoride	mg/l	0.38	IS 3025 (Part - 60):1986	1.5
13	Nitrate as NO ₃	mg/l	8.56	IS 3025 (Part 34): 1988	20
14	Iron as Fe	mg/l	0.26	IS 3025 (Part - 53):2003	0.3
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	NA
16	Zinc as Zn	mg/l	BLQ(LOQ:0.1)	USEPA Method 200.8:1994	15
17	Copper as Cu	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.5
19	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	USEPA Method 200.8:1994	0.001
20	Lead as Pb	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.1
21	Selenium as Se	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01
22	Arsenic as As	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	USEPA Method 200.8:1994	0.001



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TEST REPORT

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Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/WT/012/310823
Report Date : 05/09/2023

Sample Description : WATER
Sample Mark Sample : Lake Near Perinjambakkam- Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 30/08/2023 .31/08/2023
Analysis Commenced On : 31/08/2023

Completed On : 05/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard
24	Sodium as Na	mg/l	56.0	IS3025 (Part - 45):1993	NA
25	Potassium as K	mg/l	5.0	IS3025 (Part - 45):1993	NA
26	Phosphate as PO ₄	mg/l	0.085	IS 3025 (Part 31):1988	NA
27	Total suspended solid	mg/l	8.0	IS 3025 (Part - 17):1984	NA
28	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	NA
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05
30	Total Chromium	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8 : 1994	NA
31	BOD,3 days @27°C as O ₂	mg/l	4.0	IS 3025 (Part - 44):1993	NA
32	Chemical oxygen demand as O ₂	mg/l	32.0	IS 3025 (Part - 58):2006	NA
33	Dissolved oxygen	mg/l	6.1	IS 3025 (Part - 38):1989	6
34	Total Phosphorous as P	mg/l	0.026	IS 3025 (Pt 31) : 1988	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA
36	Bi Carbonate	mg/l	122	IS 3025 (Part - 23):1986	NA
37	Phenolic compounds as C ₆ H ₅ OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	NA
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	NA
39	Percent Sodium as Na	%	42.09	IS 3025(Part -45) 1993	NA
40	Barium as Ba	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	1
41	Chromium as Cr ⁶⁺	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA
44	Sodium Absorption Ratio	-	1.92	IS 11624 - 1986	NA

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

End of Report



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TEST REPORT

Page: 1 of 2

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagat Phase II

Report No. : HECSL/WT/022/310823
Report Date : 05/09/2023

Sample Description : WATER
Sample Mark Sample : Theneri Lake - Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 30/08/2023 - 31/08/2023
Analysis Commenced On : 31/08/2023

Completed On : 05/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard (IS 2296 Class-A)
1	pH (at 25 °C)	-	8.16	IS 3025 (Part - 11):1983	6.5-8.5
2	Total Alkalinity as CaCO ₃	mg/l	130.0	IS 3025 (Part - 23):1986	NA
3	Electrical conductivity	µS/cm	694.0	IS 3025 (Part - 14):1983	NA
4	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	10
5	Turbidity	NTU	2.4	IS 3025(Part - 10):1984	1
6	Total Hardness as CaCO ₃	mg/l	170.0	IS 3025 (Part - 21):1983	200
7	Calcium as Ca	mg/l	42.07	IS 3025 (Part - 40):1991	NA
8	Chloride as Cl	mg/l	126.19	4500 Cl --- B APHA 23rd Edn: 2017	250
9	Magnesium as Mg	mg/l	15.80	IS 3025 (Part - 46):1994	NA
10	Total Dissolved Solids	mg/l	388.0	IS 3025(Part -16):1984	500
11	Sulphate as SO ₄	mg/l	20.14	IS 3025(Part - 24):1986	400
12	Fluoride	mg/l	0.36	IS 3025 (Part - 60):1986	1.5
13	Nitrate as NO ₃	mg/l	8.15	IS 3025 (Part 34): 1988	20
14	Iron as Fe	mg/l	0.17	IS 3025 (Part - 53):2003	0.3
15	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	NA
16	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	15
17	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	1.5
18	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.5
19	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.001
20	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.1
21	Selenium as Se	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01
22	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.05
23	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001




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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/WT/022/310823
Report Date : 05/09/2023

Sample Description : WATER
Sample Mark Sample : Theneri Lake - Surface Water
Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 30/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On: 05/09/2023

S.No.	Parameters	Units	Results	Test Method	Surface water Standard
24	Sodium as Na	mg/l	66.0	IS3025 (Part - 45):1993	NA
25	Potassium as K	mg/l	4.0	IS3025 (Part - 45):1993	NA
26	Phosphate as PO4	mg/l	0.27	IS 3025 (Part 31):1988	NA
27	Total suspended solid	mg/l	6.0	IS 3025 (Part - 17):1984	NA
28	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	NA
29	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05
30	Total Chromium	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 : 1994	NA
31	BOD,3 days @27°C as O2	mg/l	5.0	IS 3025 (Part - 44):1993	NA
32	Chemical oxygen demand as O2	mg/l	36.0	IS 3025 (Part - 58):2006	NA
33	Dissolved oxygen	mg/l	6.3	IS 3025 (Part - 38):1989	6
34	Total Phosphorous as P	mg/l	0.083	IS 3025 (Pt 31) : 1988	NA
35	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 23):1986	NA
36	Bi Carbonate	mg/l	158.6	IS 3025 (Part - 23):1986	NA
37	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	NA
38	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	NA
39	Percent Sodium as Na	%	44.89	IS 3025(Part -45) 1993	NA
40	Barium as Ba	mg/l	BLQ(LOQ0.01)	USEPA Method 200.8:1994	1
41	Chromium as Cr6+	mg/l	BLQ(LOQ:0.05)	IS 3025 Part 52 : 2003	NA
42	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624 - 1986	NA
43	Free Ammonia	mg/l	BLQ(LOQ:0.02)	IS 3025 Part (34) 1982	NA
44	Sodium Absorption Ratio	-	2.19	IS 11624 - 1986	NA

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

End of Report




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TEST REPORT

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Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/SD/2/310823
Report Date : 05/09/2023

Sample Description : SOIL
Sample Mark : Eraiyur
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On : 05/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		0.71	ASTM D421/422
3	Soil Texture i)Sand	%	44.3	ASTM D421/422
4	Soil Texture ii)Silt	%	22.3	ASTM D421/422
5	Soil Texture iii)Clay	%	33.4	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.61	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	321.0	IS:14767:2000
8	Cation exchange capacity	meq/100g	5.2	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.76	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	21.42	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	47.1	IS 10158:1982
12	Potassium	mg/kg	52.12	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	4.21	US EPA 200.8 Method
16	Iron	mg/kg	BLQ(LOQ 0.02)	US EPA 200.8 Method
17	Manganese	mg/kg	117.74	US EPA 200.8 Method
18	Zinc	mg/kg	21.63	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	6.32	ASTM D6391-11
21	Bulk density	gm/cc	3.56	ASTM D6683-14
22	Moisture Content	%	7.25	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	26.85	IS 14765
24	Calcium as Ca	mg/kg	132.73	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	104.61	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	24.73	US EPA 200.8 Method

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

End of Report




Authorized Signatory

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Deputy Quality Manager

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Laboratory Services Division

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

TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/SD/3/310823
Report Date : 05/09/2023

Sample Description : SOIL
Sample Mark : Project Area
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On : 05/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		1.77	ASTM D421/422
3	Soil Texture i)Sand	%	32.4	ASTM D421/422
4	Soil Texture ii)Silt	%	31.1	ASTM D421/422
5	Soil Texture iii)Clay	%	36.5	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	8.23	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	141.6	IS:14767:2000
8	Cation exchange capacity	meq/100g	4.2	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	1.41	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	167.46	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	41.23	IS 10158:1982
12	Potassium	mg/kg	17.6	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	6.52	US EPA 200.8 Method
16	Iron	mg/kg	3.47	US EPA 200.8 Method
17	Manganese	mg/kg	158.32	US EPA 200.8 Method
18	Zinc	mg/kg	27.15	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	5.72	ASTM D6391-11
21	Bulk density	gm/cc	3.65	ASTM D6683-14
22	Moisture Content	%	9.52	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	27.38	IS 14765
24	Calcium as Ca	mg/kg	106.43	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	86.52	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	24.32	US EPA 200.8 Method

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

End of Report




Authorized Signatory

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Deputy Officer

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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/SD/S/310823
Report Date : 05/09/2023

Sample Description : SOIL
Sample Mark : Kovalavedu
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 30/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On : 05/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		1.31	ASTM D421/422
3	Soil Texture i)Sand	%	27.5	ASTM D421/422
4	Soil Texture ii)Silt	%	39.6	ASTM D421/422
5	Soil Texture iii)Clay	%	32.9	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.73	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	168.4	IS:14767:2000
8	Cation exchange capacity	meq/100g	4.1	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	0.95	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	14.87	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	0.31	IS 10158:1982
12	Potassium	mg/kg	31.22	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	12.67	US EPA 200.8 Method
16	Iron	mg/kg	5.41	US EPA 200.8 Method
17	Manganese	mg/kg	126.41	US EPA 200.8 Method
18	Zinc	mg/kg	41.62	US EPA 200.8 Method
19	Colour	-	Red	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	4.71	ASTM D6391-11
21	Bulk density	gm/cc	7.42	ASTM D6683-14
22	Moisture Content	%	7.11	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	36.62	IS 14765
24	Calcium as Ca	mg/kg	167.62	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	157.25	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	24.37	US EPA 200.8 Method

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

End of Report



Authorized Signatory

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Deputy Quality Manage

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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vailam Vadagal Phase II

Report No. : HECSL/SD/6/310823
Report Date : 05/09/2023

Sample Description : SOIL
Sample Mark : Vallam
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 30/08/2023 -31/08/2023
Analysis Commenced On : 31/08/2023

Completed On : 05/09/2023

S.No.	Parameters	Units	Results	Test Method
1	Soil Texture	-	Clay Loam	ASTM D421/422
2	Organic Carbon		1.24	ASTM D421/422
3	Soil Texture i)Sand	%	32.5	ASTM D421/422
4	Soil Texture ii)Silt	%	39.2	ASTM D421/422
5	Soil Texture iii)Clay	%	28.3	ASTM D421/422
6	pH (at 25°C) @ 10% Solution	-	7.57	IS:2720 (Part-26):1987
7	Electrical Conductivity (at 25°C)	µS/cm	729.3	IS:14767:2000
8	Cation exchange capacity	meq/100g	5.1	IS 2720 (Part XXIV)Reaff:2010-1976
9	Organic Matter	%	4.1	IS:2720 (Part-22): 1972)
10	Nitrogen	mg/kg	134.5	IS 14684:1999 RA 2008
11	Phosphorus	mg/kg	67.1	IS 10158:1982
12	Potassium	mg/kg	41.21	US EPA Method 3050B
13	Boron	mg/kg	BLQ(LOQ 0.1)	US EPA Method 200.7
14	Cadmium	mg/kg	BLQ(LOQ 0.1)	US EPA 200.8 Method
15	Copper as Cu	mg/kg	5.31	US EPA 200.8 Method
16	Iron	mg/kg	27.67	US EPA 200.8 Method
17	Manganese	mg/kg	152.32	US EPA 200.8 Method
18	Zinc	mg/kg	28.67	US EPA 200.8 Method
19	Colour	-	Black	IS 3025(Part 4)
20	Infiltration Rate	cm/hr	11.4	ASTM D6391-11
21	Bulk density	gm/cc	6.37	ASTM D6683-14
22	Moisture Content	%	11.42	IS 2720 part 2 Reaff:2000
23	Water holding capacity	%	23.71	IS 14765
24	Calcium as Ca	mg/kg	144.71	EPA 3050 B/EPA 7140
25	Magnesium as Mg	mg/kg	58.62	EPA 3050 B/EPA 7450
26	Chromium	mg/kg	26.68	US EPA 200.8 Method

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

End of Report




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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT.,
Address of the Client : Vallam Vadagal Phase II

Report No. : HECSL/N/021-022/310823
Report Date : 05/09/2023

Sample Description : Noise Monitoring
Sample Drawn By : Hubert Enviro Care Systems (p) Ltd
Sampling/received Date : 29/08/2023 -31/08/2023

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	59.3	52.1
2	Eraiyur	50.5	45.8
3	Vallakottai	57.1	51.2
4	Kovalavedu	48.7	45.3
5	Vallam	55.1	50.3

Noise Standards - CPCB:

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

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

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

End of Report

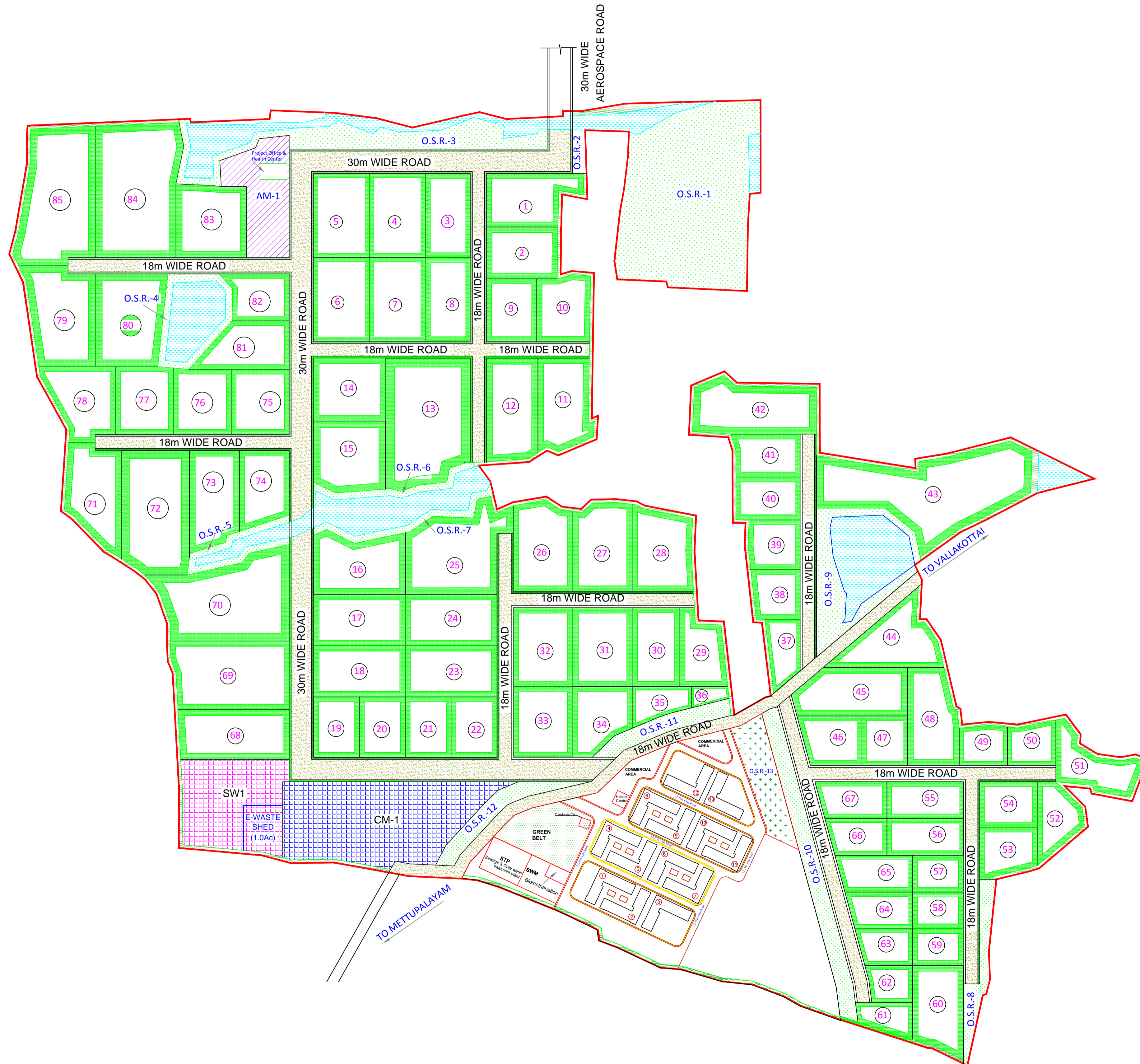
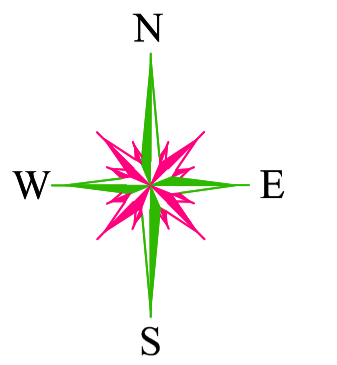



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Deputy Quality Manager

TENTATIVE LAYOUT FOR SIPCOT INDUSTRIAL PARK-II AT VALLAM-`A' AND VALLAM-`B' VILLAGES, SRIPERUMBUDUR Tk., KANCHEEPURAM Dt..

Annexure-14



COMMERCIAL	
CM1	8.01

AMENITIES	
AM1	3.10

SOLID WASTE	
SW-1	4.91

WIDTH OF ROAD	LENGTH IN Km.
30m WIDE ROAD	1.770
18m WIDE ROAD	3.565
18m WIDE VILLAGE ROAD	0.914

O.S.R. AREA

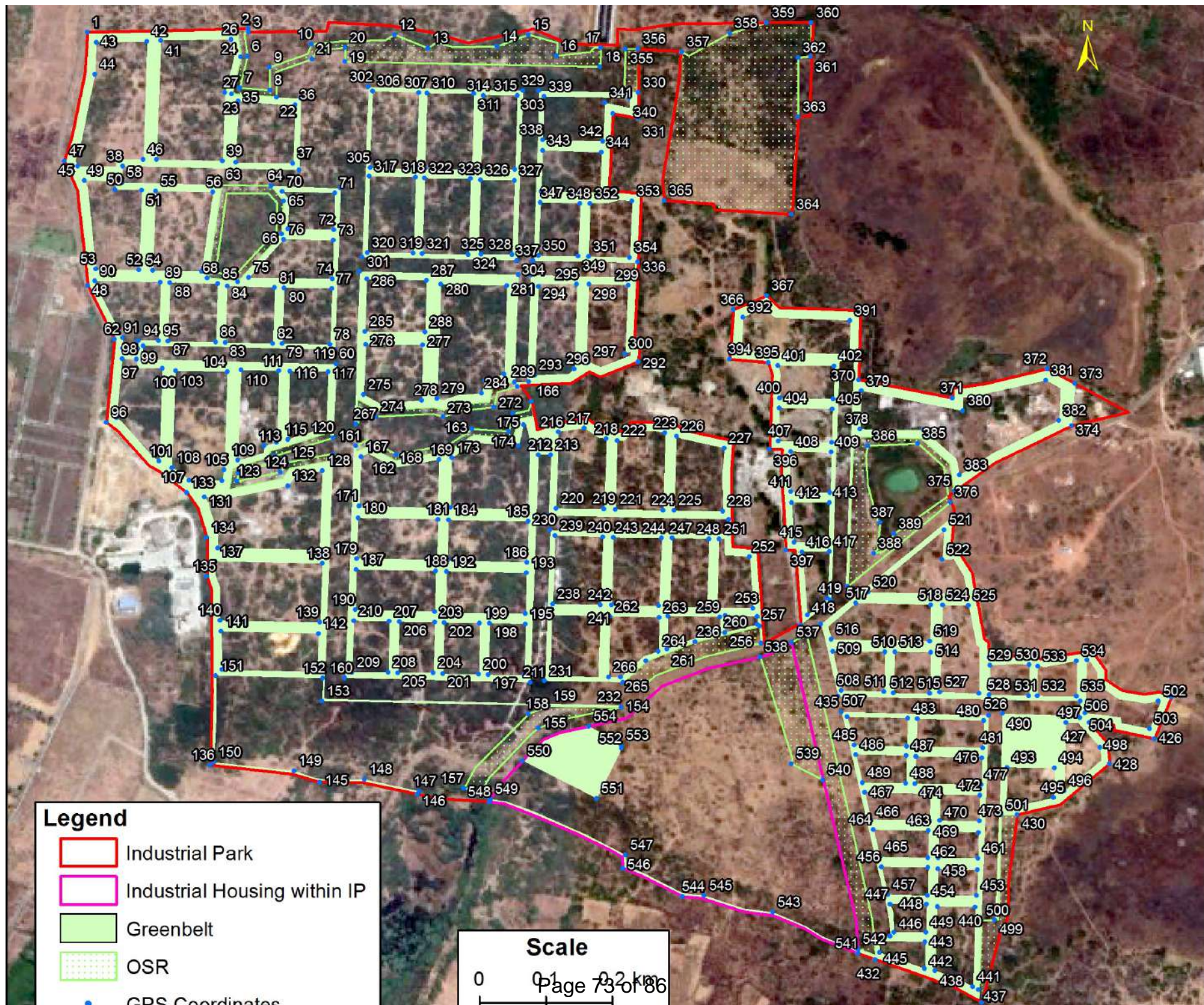
OSR NO.	AREA IN ACRE
O.S.R.1	11.87
O.S.R.2	0.31
O.S.R.3	4.05
O.S.R.4	1.00
O.S.R.5	0.82
O.S.R.6	0.66
O.S.R.7	0.89
O.S.R.8	1.34
O.S.R.9	2.52
O.S.R.10	3.07
O.S.R.11	1.24
O.S.R.12	1.29
O.S.R.13	1.98
TOTAL	31.04

GREEN BELT	Area in Acres
O.S.R. AREA	31.04
33% GREEN BELT IN PLOT AREA	62.93
GREEN BELT 3m ALONG ROAD SIDE	7.41
GREEN BELT 5m ALONG PERIPHERY OF SITE AND HOUSING	8.28
TOTAL IN ACRES	109.66

35.33% of Developable Area

PLOT NO.	AREA IN ACRES.	PLOT NO.	AREA IN ACRES.	PLOT NO.	AREA IN ACRES.
1	2.30	31	2.50	61	0.84
2	1.96	32	2.50	62	0.85
3	2.02	33	2.24	63	1.03
4	2.50	34	2.19	64	1.23
5	2.50	35	1.70	65	1.42
6	2.50	36	0.68	66	1.12
7	2.50	37	1.05	67	1.31
8	2.02	38	1.24	68	2.94
9	1.68	39	1.36	69	4.16
10	1.84	40	1.46	70	5.24
11	2.45	41	1.49	71	2.63
12	2.77	42	3.20	72	4.40
13	5.55	43	6.96	73	2.48
14	2.41	44	2.46	74	1.93
15	2.64	45	2.34	75	2.00
16	2.82	46	1.54	76	2.00
17	2.50	47	1.20	77	2.08
18	2.50	48	2.46	78	2.32
19	1.48	49	1.00	79	3.33
20	1.48	50	1.05	80	3.33
21	1.48	51	1.79	81	2.03
22	1.48	52	1.36	82	1.47
23	2.50	53	1.39	83	2.71
24	2.50	54	1.39	84	5.86
25	4.05	55	1.50	85	5.15
26	2.74	56	1.50	TOTAL	190.71
27	2.73	57	1.00		
28	2.53	58	1.00		
29	1.61	59	1.00		
30	2.00	60	2.26		

PLOT AREA = 190.71 Acres INCLUDING 33% G.B 62.93 ACRES)	61.44%	
INDUSTRIAL HOUSING (Overall area- 30.83Ac, OSR 13 -1.98Ac,GB-2.19Ac,Commercial-1.51AC SWM = 2.11Ac , Remaining Area -23.04 Ac.	23.04Acres	7.42%
COMMON AMENITIES = 3.10 Acres (ie. Project Office Including Health center, Water supply, EB, Fire station etc.)		1.00%
COMMERCIAL PLOTS = 9.52 Acres (ie. Bank, ATM, Shops, Canteen etc.) (Housing =1.51.AC , IP = 8.01.AC.)		3.07%
ROAD , STORM WATER DRAIN = 30.27 Acres		9.75%
SOLID WASTE MANAGEMENT = 07.02 Acres (Housing including Biomethanation=2.11AC. + IP including E waste = 4.91AC.)		2.26%
O.S.R. AREA 1 TO 13 = 31.04 Acres (Housing OSR 13 =1.98AC, IP OSR 1 TO 12 = 29.06AC)		10.00%
GREEN BELT ALONG ROAD SIDE = 7.41 Acres		2.39%
GREEN BELT = 8.28 Acres (Housing GB=2.19AC + IP [5 m along periphery of site =6.09Ac])		2.67%
DEVELOPABLE AREA = 310.39 Acres		
WATER BODIES = 14.97 Acres		
TOTAL AREA = 325.36 Acres		



Legend

- Industrial Park
- Industrial Housing within IP
- Greenbelt
- OSR
- GPS Coordinates

Scale

0 0.2 km

Green belt coordinates

S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude
1	12.88440	79.9140	141	12.87630	79.9158	272	12.87940	79.9195	405	12.87930	79.9241	537	12.87620	79.9235
2	12.88450	79.9162	142	12.87630	79.9171	273	12.87920	79.9188	406	12.87890	79.9241	538	12.87600	79.9231
3	12.88440	79.9162	143	12.87580	79.9171	274	12.87920	79.9179	407	12.87890	79.9234	539	12.87450	79.9235
6	12.88410	79.9162	144	12.87580	79.9158	275	12.87950	79.9177	408	12.87880	79.9235	540	12.87430	79.9240
7	12.88370	79.9161	145	12.87430	79.9172	276	12.88020	79.9178	409	12.87880	79.9241	541	12.87200	79.9244
8	12.88370	79.9165	146	12.87410	79.9185	277	12.88020	79.9185	410	12.87820	79.9241	542	12.87200	79.9244
9	12.88400	79.9165	147	12.87420	79.9185	278	12.87950	79.9185	411	12.87820	79.9235	543	12.87250	79.9233
10	12.88430	79.9170	148	12.87430	79.9177	279	12.87950	79.9187	412	12.87810	79.9235	544	12.87270	79.9221
12	12.88440	79.9182	149	12.87440	79.9168	280	12.88100	79.9188	413	12.87810	79.9240	545	12.87280	79.9224
13	12.88420	79.9186	150	12.87460	79.9157	281	12.88100	79.9197	414	12.87750	79.9240	546	12.87310	79.9212
14	12.88430	79.9195	151	12.87570	79.9157	282	12.87980	79.9196	415	12.87750	79.9236	547	12.87330	79.9213
15	12.88440	79.9200	152	12.87570	79.9172	283	12.87970	79.9194	416	12.87740	79.9237	548	12.87400	79.9194
16	12.88410	79.9203	153	12.87540	79.9172	284	12.87960	79.9193	417	12.87740	79.9240	549	12.87410	79.9195
17	12.88420	79.9210	154	12.87530	79.9212	285	12.88040	79.9178	418	12.87660	79.9238	550	12.87460	79.9199
18	12.88400	79.9209	155	12.87500	79.9201	286	12.88110	79.9178	419	12.87680	79.9240	551	12.87410	79.9209
19	12.88400	79.9175	156	12.87420	79.9193	287	12.88110	79.9186	420	12.87640	79.9239	552	12.87470	79.9212
20	12.88420	79.9175	157	12.87420	79.9191	288	12.88040	79.9186	421	12.87780	79.9257	553	12.87480	79.9212
21	12.88410	79.9170	158	12.87520	79.9200	289	12.87970	79.9200	422	12.87740	79.9257	554	12.87500	79.9208
22	12.88360	79.9166	159	12.87530	79.9202	290	12.88120	79.9200	423	12.87600	79.9262			
23	12.88360	79.9160	160	12.87570	79.9175	291	12.88110	79.9214	424	12.87610	79.9276			
24	12.88410	79.9161	161	12.87880	79.9176	292	12.88000	79.9215	425	12.87540	79.9287			
25	12.88450	79.9160	162	12.87870	79.9182	293	12.87980	79.9201	426	12.87490	79.9285			
26	12.88430	79.9159	163	12.87910	79.9192	294	12.88100	79.9201	427	12.87510	79.9276			
27	12.88360	79.9159	164	12.87900	79.9197	295	12.88100	79.9206	428	12.87450	79.9278			
31	12.88350	79.9169	165	12.87930	79.9198	296	12.87990	79.9206	430	12.87380	79.9266			
32	12.88260	79.9169	166	12.87940	79.9200	297	12.88000	79.9208	431	12.87130	79.9261			
34	12.88270	79.9160	167	12.87870	79.9177	298	12.88100	79.9208	432	12.87190	79.9247			
35	12.88350	79.9160	168	12.87850	79.9182	299	12.88100	79.9213	433	12.87220	79.9247			
36	12.88350	79.9168	169	12.87870	79.9188	300	12.88010	79.9213	434	12.87220	79.9249			
37	12.88270	79.9168	170	12.87800	79.9187	301	12.88140	79.9177	435	12.87520	79.9242			
38	12.88260	79.9145	171	12.87800	79.9177	302	12.88370	79.9178	436	12.87520	79.9262			
39	12.88270	79.9158	172	12.87800	79.9189	303	12.88370	79.9199	437	12.87150	79.9261			
40	12.88270	79.9149	173	12.87870	79.9189	304	12.88140	79.9198	438	12.87170	79.9255			
41	12.88430	79.9150	174	12.87880	79.9198	305	12.88260	79.9178	439	12.87260	79.9255			
42	12.88430	79.9148	175	12.87910	79.9199	306	12.88360	79.9179	440	12.87260	79.9260			

S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude
43	12.88430	79.9141	176	12.87890	79.9200	307	12.88360	79.9185	441	12.87150	79.9260			
44	12.88390	79.9141	177	12.87880	79.9202	308	12.88260	79.9184	442	12.87180	79.9253			
45	12.88260	79.9139	178	12.87800	79.9200	309	12.88260	79.9186	443	12.87210	79.9253			
46	12.88270	79.9147	179	12.87730	79.9176	310	12.88360	79.9186	444	12.87210	79.9247			
47	12.88270	79.9137	180	12.87790	79.9177	311	12.88360	79.9192	445	12.87200	79.9247			
48	12.88100	79.9140	181	12.87780	79.9187	312	12.88260	79.9192	446	12.87230	79.9249			
49	12.88240	79.9140	182	12.87730	79.9187	313	12.88260	79.9193	447	12.87260	79.9249			
50	12.88230	79.9144	183	12.87730	79.9189	314	12.88360	79.9194	448	12.87260	79.9254			
51	12.88230	79.9147	184	12.87780	79.9189	315	12.88360	79.9198	449	12.87230	79.9254			
52	12.88120	79.9147	185	12.87780	79.9200	316	12.88260	79.9198	450	12.87280	79.9255			
53	12.88120	79.9141	186	12.87730	79.9200	317	12.88250	79.9178	451	12.87310	79.9255			
54	12.88120	79.9149	187	12.87720	79.9176	318	12.88250	79.9184	452	12.87310	79.9261			
55	12.88230	79.9149	188	12.87710	79.9187	319	12.88140	79.9184	453	12.87280	79.9260			
56	12.88230	79.9157	189	12.87660	79.9187	320	12.88150	79.9178	454	12.87280	79.9254			
57	12.88120	79.9155	190	12.87660	79.9176	321	12.88140	79.9185	455	12.87310	79.9254			
58	12.88240	79.9145	191	12.87660	79.9189	322	12.88250	79.9186	456	12.87310	79.9248			
59	12.88230	79.9174	192	12.87710	79.9189	323	12.88250	79.9192	457	12.87280	79.9248			
60	12.88010	79.9174	193	12.87710	79.9199	324	12.88140	79.9192	458	12.87330	79.9255			
61	12.88020	79.9148	194	12.87660	79.9199	325	12.88140	79.9193	459	12.87360	79.9255			
62	12.88030	79.9144	195	12.87640	79.9199	326	12.88240	79.9193	460	12.87360	79.9261			
63	12.88240	79.9158	196	12.87570	79.9199	327	12.88240	79.9198	461	12.87330	79.9261			
64	12.88240	79.9165	197	12.87570	79.9194	328	12.88140	79.9197	462	12.87330	79.9254			
65	12.88220	79.9167	198	12.87640	79.9194	329	12.88370	79.9201	463	12.87360	79.9254			
66	12.88170	79.9166	199	12.87640	79.9193	330	12.88360	79.9215	464	12.87360	79.9246			
67	12.88110	79.9160	200	12.87570	79.9193	331	12.88330	79.9215	465	12.87330	79.9247			
68	12.88110	79.9156	201	12.87580	79.9188	332	12.88330	79.9211	466	12.87380	79.9246			
69	12.88180	79.9167	202	12.87640	79.9188	333	12.88230	79.9211	467	12.87420	79.9245			
70	12.88230	79.9166	203	12.87650	79.9187	334	12.88230	79.9215	468	12.87410	79.9254			
71	12.88230	79.9174	204	12.87580	79.9187	336	12.88130	79.9215	469	12.87380	79.9254			
72	12.88180	79.9173	205	12.87580	79.9182	337	12.88140	79.9200	470	12.87380	79.9255			
73	12.88160	79.9173	206	12.87650	79.9182	338	12.88300	79.9202	471	12.87410	79.9256			
74	12.88110	79.9173	207	12.87650	79.9181	339	12.88360	79.9202	472	12.87410	79.9261			
75	12.88110	79.9162	208	12.87580	79.9181	340	12.88360	79.9213	473	12.87380	79.9261			
76	12.88160	79.9167	209	12.87580	79.9176	341	12.88350	79.9210	474	12.87430	79.9252			
77	12.88100	79.9173	210	12.87650	79.9176	342	12.88300	79.9210	475	12.87460	79.9252			
78	12.88020	79.9173	211	12.87560	79.9200	343	12.88280	79.9202	476	12.87460	79.9261			

S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude
79	12.88020	79.9166	212	12.87870	79.9201	344	12.88280	79.9210	477	12.87430	79.9261			
80	12.88100	79.9167	213	12.87870	79.9203	345	12.88230	79.9209	478	12.87480	79.9252			
81	12.88100	79.9165	214	12.87790	79.9202	346	12.88230	79.9201	479	12.87510	79.9252			
82	12.88020	79.9165	215	12.87780	79.9227	347	12.88210	79.9201	480	12.87510	79.9261			
83	12.88020	79.9159	216	12.87900	79.9204	348	12.88210	79.9207	481	12.87480	79.9261			
84	12.88100	79.9159	217	12.87910	79.9207	349	12.88140	79.9206	482	12.87480	79.9251			
85	12.88100	79.9158	218	12.87890	79.9210	350	12.88140	79.9201	483	12.87520	79.9251			
86	12.88020	79.9157	219	12.87800	79.9210	351	12.88140	79.9208	484	12.87520	79.9243			
87	12.88030	79.9151	220	12.87800	79.9203	352	12.88210	79.9208	485	12.87480	79.9244			
88	12.88110	79.9151	221	12.87800	79.9212	353	12.88220	79.9214	486	12.87470	79.9244			
89	12.88110	79.9150	222	12.87890	79.9212	354	12.88140	79.9213	487	12.87460	79.9251			
90	12.88110	79.9141	223	12.87900	79.9218	355	12.88420	79.9213	488	12.87430	79.9251			
91	12.88030	79.9145	224	12.87800	79.9218	356	12.88420	79.9215	489	12.87430	79.9245			
92	12.88020	79.9145	225	12.87800	79.9219	357	12.88420	79.9221	490	12.87520	79.9264			
93	12.88020	79.9147	226	12.87900	79.9220	358	12.88440	79.9227	491	12.87520	79.9274			
94	12.88030	79.9147	227	12.87880	79.9226	359	12.88460	79.9232	492	12.87390	79.9265			
95	12.88030	79.9150	228	12.87800	79.9226	360	12.88460	79.9238	493	12.87450	79.9265			
96	12.87920	79.9143	229	12.87760	79.9227	361	12.88410	79.9238	494	12.87450	79.9271			
97	12.88000	79.9145	230	12.87770	79.9203	362	12.88410	79.9236	495	12.87410	79.9271			
98	12.88000	79.9147	231	12.87570	79.9202	363	12.88330	79.9236	496	12.87420	79.9272			
99	12.87990	79.9147	232	12.87560	79.9212	364	12.88200	79.9235	497	12.87510	79.9273			
100	12.87990	79.9150	233	12.87560	79.9216	365	12.88220	79.9218	498	12.87480	79.9277			
101	12.87860	79.9150	234	12.87620	79.9231	366	12.88070	79.9227	499	12.87240	79.9263			
102	12.87920	79.9144	235	12.87640	79.9231	367	12.88090	79.9232	500	12.87240	79.9261			
103	12.87990	79.9152	236	12.87620	79.9222	368	12.88070	79.9245	501	12.87380	79.9264			
104	12.87980	79.9159	237	12.87590	79.9216	370	12.87970	79.9244	502	12.87540	79.9285			
105	12.87850	79.9158	238	12.87670	79.9203	371	12.87950	79.9257	503	12.87500	79.9284			
106	12.87840	79.9158	239	12.87760	79.9203	372	12.87990	79.9270	504	12.87520	79.9275			
107	12.87840	79.9154	240	12.87760	79.9210	373	12.87970	79.9274	505	12.87590	79.9275			
108	12.87850	79.9151	241	12.87670	79.9209	374	12.87910	79.9273	506	12.87540	79.9274			
109	12.87860	79.9160	242	12.87670	79.9211	375	12.87820	79.9257	507	12.87540	79.9242			
110	12.87990	79.9161	243	12.87760	79.9211	376	12.87810	79.9257	508	12.87550	79.9242			
111	12.87990	79.9166	244	12.87760	79.9218	377	12.87690	79.9243	509	12.87610	79.9241			
112	12.87890	79.9166	245	12.87670	79.9217	378	12.87910	79.9245	510	12.87600	79.9248			
113	12.87880	79.9164	246	12.87670	79.9219	379	12.87960	79.9245	511	12.87550	79.9248			
115	12.87890	79.9167	247	12.87760	79.9219	380	12.87930	79.9259	512	12.87550	79.9249			

S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude	S.No	Latitude	Longitude
116	12.87990	79.9167	248	12.87760	79.9224	381	12.87970	79.9270	513	12.87610	79.9249			
117	12.87980	79.9173	249	12.87670	79.9224	382	12.87920	79.9272	514	12.87600	79.9254			
118	12.87910	79.9172	250	12.87660	79.9225	383	12.87840	79.9258	515	12.87550	79.9254			
119	12.88000	79.9174	251	12.87760	79.9226	384	12.87910	79.9253	516	12.87620	79.9241			
120	12.87900	79.9173	252	12.87730	79.9230	385	12.87890	79.9252	517	12.87670	79.9244			
121	12.87870	79.9165	253	12.87660	79.9230	386	12.87880	79.9246	518	12.87670	79.9254			
122	12.87850	79.9160	254	12.87650	79.9231	387	12.87780	79.9247	519	12.87620	79.9254			
123	12.87840	79.9160	255	12.87650	79.9226	388	12.87740	79.9247	520	12.87690	79.9246			
124	12.87850	79.9166	256	12.87630	79.9226	389	12.87770	79.9249	521	12.87770	79.9256			
125	12.87860	79.9167	257	12.87640	79.9231	390	12.88010	79.9243	522	12.87730	79.9256			
126	12.87870	79.9173	258	12.87650	79.9219	391	12.88050	79.9243	523	12.87680	79.9259			
128	12.87850	79.9172	259	12.87650	79.9226	392	12.88060	79.9229	524	12.87670	79.9256			
129	12.87740	79.9171	260	12.87630	79.9226	393	12.88010	79.9229	525	12.87670	79.9259			
130	12.87750	79.9158	261	12.87610	79.9219	394	12.88000	79.9227	526	12.87550	79.9261			
131	12.87810	79.9156	262	12.87650	79.9211	395	12.88000	79.9232	527	12.87550	79.9255			
132	12.87830	79.9167	263	12.87650	79.9217	396	12.87880	79.9232	528	12.87550	79.9262			
133	12.87820	79.9153	264	12.87610	79.9217	397	12.87740	79.9235	529	12.87590	79.9262			
134	12.87760	79.9156	265	12.87570	79.9212	398	12.87640	79.9237	530	12.87590	79.9268			
135	12.87710	79.9156	266	12.87570	79.9211	399	12.87680	79.9241	531	12.87550	79.9267			
136	12.87450	79.9157	267	12.87910	79.9176	400	12.87950	79.9234	532	12.87550	79.9269			
137	12.87730	79.9157	268	12.88120	79.9177	401	12.87990	79.9233	533	12.87590	79.9269			
138	12.87730	79.9172	269	12.88120	79.9198	402	12.87990	79.9241	534	12.87590	79.9274			
139	12.87650	79.9171	270	12.87970	79.9198	403	12.87950	79.9241	535	12.87540	79.9274			
140	12.87650	79.9158	271	12.87960	79.9198	404	12.87940	79.9234	536	12.87630	79.9237			