

HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

For the Period of April 2024 - September 2024

For

“Development of Aerospace Park”

At

**Vallam and Vadagal Villages, Sriperumbudur Taluk,
Kancheepuram District, Tamil Nadu.**

**EC obtained vide Letter No. SEIAA-TN/F.NO-4262/2015/8(b)/EC-471/KPM/2016 dated
19.05.2015**

Submitted by



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

Prepared by



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

November 2024

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LIST OF ANNEXURE

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1. PROJECT DETAILS

Name of the Project	SIPCOT Aerospace Park
Name of the Proponent	M/s. State Industries Promotion Corporation of Tamil Nadu Limited (SIPCOT)
Location	Vallam and Vadagal Villages, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.
EC. No.	SEIAA-TN/F.NO-4262/2015/8(b)/EC-471/KPM/2016 dated.19.05.2015 (Enclosed as Annexure -1)
Area Details	98.96 Hectare
Water Requirement	Total Water requirement: 0.25 MGD Source: CMWSSB TTRO Water / Chembarampakkam Lake
Project Cost	Rs. 100 Crores

2. LOCATION MAP



3. SITE PHOTOGRAPHS





4. SIX MONTHLY ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

Part (A)- Conditions For Pre-Construction Phase

S.NO	CONDITION	STATUS OF COMPLIANCE
1.	The project authorities should advertise with basic details at least in two local newspaper widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN and a copy of the same should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai.	Condition complied. Newspaper advertisement copy is enclosed as Annexure - 2.
2	In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/ SEIAA shall be obtained.	Condition Noted. There is no change in the scope of the project.
3	A copy of the clearance letter shall be sent by the proponent to the Block development officers of Panchayat union and the Local NGO, if any, from whom suggestions /representations, if any, have been received while processing the proposal. The clearance letter shall also be put on the website of the Proponent.	Condition complied. The clearance letter has been uploaded on SIPCOT website. Screenshot of the same is enclosed as Annexure- 3.
4	"Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy of the same shall be submitted to the SEIAA, Tamil Nadu before start of construction activity at the site.	Condition Complied. Consent for Establishment has been obtained from the Tamil Nadu Pollution Control Board and a copy of the same is enclosed as Annexure - 4.

5	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, 2020.	No appeal lies against this project.
6	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.	Individual member units are mandated to obtain all necessary statutory clearances and approvals.
7.	All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.	All the member industries are advised to comply with.
8.	Design of buildings should be in conformity with the Seismic Zone Classifications.	Individual member units are mandated to obtain all necessary statutory clearances and approvals.
9	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.	Individual member units are mandated to obtain all necessary statutory clearances and approvals.

10.	SIPCOT 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, it is liberty to the Developer to make fresh application for EC before the concerned authority if the Developer so desires to allot/sale the industrial plot for the individual industry to house category A or category B type of industry as prescribed in the schedule of EIA notification 2006 for fresh Environment Clearance (EC).	Condition noted.
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(B). CONSTRUCTION PHASE

Construction Phase	Not applicable since construction is completed
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Consent to establish has been obtained from TNPCB and CTE copy is enclosed as **Annexure-4**. Individual Industries are mandated to obtain CTE & CTO.

(C). OPERATION PHASE

S.NO	CONDITION	STATUS OF COMPLIANCE
14.	SIPCOT shall ensure that the water bodies shall be kept in their natural course without any change in its alignment, direction, capacity etc during entire operation phase of the project.	Condition is being complied. Water bodies will be kept in their natural course and will not be disturbed.
15.	SIPCOT shall also ensure that the catchment area of the adjacent lakes shall not be disturbed or realigned or redistributed or restricted etc during the entire operation phase of the project.	Condition is being complied. Catchment area of the adjacent lakes will not be disturbed.
16.	No bund shall be formed around the premises of SIPCOT which obstruct the rain water flow to the lakes located abetting the Industrial Park.	Condition is being complied. There is no bund formation around the premises of SIPCOT.

17.	SIPCOT shall mandate all member units to ensure that the treated sewage/ trade effluent collection, storage and Reuse system shall not have any access to the water bodies. All precautionary steps shall be effectively taken and shall be continuously monitored by the Developer so as to prevent discharge of the treated sewage/ trade effluent into canal/ Lakes.	SIPCOT has mandated to 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. Surface water monitoring report is enclosed as Annexure - 5.
18.	SIPCOT shall ensure that only after rehabilitation & Resettlement i.e., after making payment to all the land owners, as per law, the land can be allotted to the member industries.	The land was acquired under the provisions of Land Acquisition Act for industrial purpose. We have strictly followed all the provisions mentioned in the Act while acquiring the land.
19.	The lands under litigation shall not be sold/handed over to any industry till the judgment is finalized and delivered in favour of SIPCOT by the concerned court.	Condition noted.
20.	SIPCOT shall ensure that the Green Belt Development as committed including the premises owned by the individual industries and a saving clause in the allotment/sale deed executed with every industry shall be provided.	Greenbelt is being developed within the industrial park. All the member units are instructed to comply with. The Green belt Photograph is attached as Annexure – 10.
21.	SIPCOT shall ensure that no CETP/CMSWTSF shall be provided for the sewage, trade effluent, municipal solid waste generated from the individual industries except the facilities for the collection, storage and reuse of the treated sewage/ trade effluent /solid wastes by member units as per agreement to be made with the Member units.	Condition is being complied. SIPCOT has not developed CETP. Individual Industries are mandated to have their own ETP and STP plant with ZLD system and reuse the treated water for process/greenbelt . Further, Individual industries are handling their Solid Waste generated within their premises.

22.	The water requirement shall be met from the Chembarampakkam Lake (TTRO water) through CMWSSB as committed, by SIPCOT.	Condition complied. The water requirement is being met from the Chembarampakkam Lake / TTRO water through CMWSSB. CMWSSB allotment letter is enclosed as Annexure- 6.
23.	The measures contemplated in the EIA /EMP report shall be adhered to by the SIPCOT.	Condition noted.
24.	SIPCOT shall mandate the member units of the Industrial Park to discharge emissions within permissible limits only and to install adequate APC measures and to allot adequate area for green belt development and to install rain water harvesting structures.	Condition is being Complied. Industries are mandated to have their own Air Pollution control measures and install rain water harvesting structures and to develop adequate greenbelt.
25.	SIPCOT shall mandate that all its unit shall furnish separate plan of action for disposal of treated sewage during monsoon months such as optimal/minimized usage of water, regulate the application of treated sewage to avoid stagnation etc.	Individual units are mandated to obtain all necessary statutory clearances and approvals with adequate measures for treatment, reuse and disposal of treated sewage within their premises.
26.	The SIPCOT shall ensure that storm water drain provided at project site shall be maintained without chocking for stagnation and should also ensure that the storm water shall be properly disposed in the natural drainage course.	Condition is being complied.
27.	SIPCOT shall conduct EIA study for one season excluding rainy season for. All parameters such as water, air, noise, waste water etc and submit to SEIAA before March 2017.	Condition complied.

28.	A separate cell shall be formed and kept in readiness with suitable trained personnel for handling of fire fighting equipments / operations.	All the member industries are advised to comply with the condition.
29.	A First Aid Room shall be provided with qualified personnel during operation of the project.	All the member industries are advised to comply with the condition.
30.	Adequate fire protection equipments and rescue arrangements should be made.	All the member industries are advised to comply with the condition.

31.SIPCOT as well as its member units shall be mandated to comply the following conditions:

S.NO	CONDITION	STATUS OF
a.	The SIPCOT shall ensure that rain water collected from the covered roof of the buildings, etc shall be scientifically harvested so as to ensure the maximum beneficiation of rain water harvesting.	All the member industries are mandated to comply with the condition.
b.	SIPCOT shall mandate all its member units that Rain water harvesting for surface run-off, should be filtered before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease.	All the member industries are instructed to comply with the condition.
c.	The proponent should also ensure to keep necessary road width as per O.M. dated 7.2.12 of MOEF, GOI, New Delhi to high rise buildings.	Condition complied.
d.	The Plastic wastes shall be segregated and disposed through authorized recyclers.	Condition is being complied. All the member industries are instructed to comply with the

e.	The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, etc, and the noise level shall be maintained as per MoEF/ CPCB / TNPCB guidelines/ norms both during day and night time.	Individual member units will be mandated to obtain all necessary statutory clearances and approvals. Noise monitoring report is enclosed as Annexure - 5.
f.	The greenbelt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of suitable variety.	Greenbelt is being developed within the Industrial Park. All the member industries are instructed to comply with. The Greenbelt Photograph is attached as Annexure -10.
g.	Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for a portion of the buildings shall be provided.	All the member industries are instructed to comply with the condition.
h.	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.	Condition is being complied. All the member industries are instructed to comply with the condition.
i.	A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared in incorporating details about building materials & technology, R& U factor etc and submitted to the SEIAA in three month's time.	All the member industries are instructed to comply with the condition.

j.	Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project.	Condition is being complied. Environmental monitoring reports are enclosed as Annexure -5.
k.	SIPCOT shall collect periodical water samples in the adjacent lakes and sufficient well water samples at least once in 3 months for physio-chemical and biological analysis and shall keep the baseline data for record. The compiled annual Report of Analysis shall be forwarded to TNPCB to ascertain the changes in the quality of the lake water, if any followed by remediation / action.	Condition is being complied. Ground water and Surface water quality monitoring report is enclosed as Annexure - 5.
32.	It is mandatory for the Project proponent to furnish to the SEIAA, Half yearly compliance report in Hard and Soft copies on 1 st June and 1 st December of each calendar year in respect of the conditions stipulated in the prior Environmental Clearance.	Condition is being complied.
33.	The SEIAA reserves the right to add additional safeguard measures subsequently, if found noncompliance of EC conditions and to take action including revoking of this Environmental Clearance as the case may be.	Condition noted.
34.	Under the provisions of Environment (protection) Act, 1986, legal action shall be initiated against the project proponent, if it was found that Construction of the project has been started without obtaining Environmental Clearance, and for action for any Violation of any condition stipulated in the Environmental Clearance.	Condition noted.

35.	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, Chennai and the TNPCB.	Condition is being complied. Screenshot of compliance report uploaded in website is enclosed as Annexure -7.
36.	A copy of the clearance letter shall be sent by the proponent to the Block Development Officer and the Local NGO, if any, from whom suggestions/representations, if any, have been received while processing the proposal. The clearance letter shall also be put on the website of the proponent.	The clearance letter has been uploaded in SIPCOT website and the same is enclosed as Annexure -3.
37.	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 due to exposure to dust and take corrective measures, if needed.	All the member industries are instructed to comply with the condition.
38.	Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purposes schedule of health examination of the workers should be drawn and the workers shall be provided with personnel protective masks, gloves, boots etc.	All the member industries shall comply With the condition.

39.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Chennai.	Condition noted.
40.	The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Condition noted.
41.	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions' and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.	Condition is being complied. Proof of dispatch of Form V to TNPCB is enclosed as Annexure-8 . Screenshot of Environmental Statement uploaded in the SIPCOT website is enclosed as Annexure – 7 .
42.	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.

43.	The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Condition noted.
44.	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.
45.	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.	Condition noted.
46.	The above conditions will be enforced inter-alia, under the provisions of the Water (prevention & Control of Act, 1974, the Air (prevention & Control of Pollution) Act, 1981, the Environmental (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 and rules made there under and also any other orders passed by the India / Hon'ble High Court of Madras and any other Courts subject matter.	Condition noted.

5. 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. (NABL Accredited laboratory) during the period of April 2024 - September 2024.

5.1 Ambient Air Quality monitoring

The ambient air quality parameters such as suspended Particulate matter (PM10), Respirable Particulate matter (PM 2.5), Sulphur dioxide, Oxides of Nitrogen (NOx), Ammonia, Ozone and Carbon monoxide were monitored. The test report of ambient air quality for the period of April 2024 - September 2024 is enclosed as **Annexure - 5**.

5.2 Ambient Noise level monitoring

Ambient noise levels were monitored and the test report of ambient noise recorded during the period of April 2024 - September 2024 is enclosed as **Annexure - 5**.

5.3 Soil quality monitoring

Soil samples were collected and analyzed for nutrients and heavy metals. The test report of soil samples collected and analyzed during the period of April 2024 - September 2024 is enclosed as **Annexure - 5**.

5.4 Ground water quality monitoring

Ground water was tested for various water quality parameters during the period of April 2024 - September 2024. The test report of bore well water collected and analyzed is enclosed as **Annexure- 5**.

5.5 Surface water quality monitoring

The surface water was collected and tested for various water quality parameters during the period of April 2024 - September 2024. The test report of surface water collected and analyzed is enclosed as **Annexure- 5**.

6. CONCLUSION

1. The environmental monitoring was carried out at site during the period of April 2024-September 2024.
2. All the conditions stipulated in Environmental Clearance are being complied will be complied.



Dr. RAJKUMAR SAMUEL
Director Technical

Name: Dr. Rajkumar Samuel

Designation: Director Technical

Company Name: Hubert Enviro
Care Systems Private Limited

Annexure



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
ENVIRONMENTAL CLEARANCE

Dr. S. Kalyanasundaram, I.F.S.(Retd.) Chairman 3rd Floor, Panagal Maaligai, No.1, Jeenis Road, Saidapet, Chennai-600 015. Telephone No. : 044-2435 9973 E-mail-cmantnseiaa@yahoo.com	To: Dr.R.Selvaraj,I.A.S Managing Director(SIPCOT) SIPCOT Aerospace Park 19-A, Rukmani Lakshmipathy Road, Post BoxNo-7223,Egmore, Chennai-600 008. Email-sipcot@md3.vsnl.net.in
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Lr.No.SEIAA-TN /F.No- 4262/2015/8(b)/EC-471/KPM/2016/dated 19.05.2015

Sir,


Subject :- SEIAA-TN - M/s. SIPCOT Aerospace Park, Vallam Vadagal Village, Sriperumbudur Taluk, Kancheepuram District, for the proposed Aerospace project of area 244.53 acres (99 ha), under category B, schedule No- 8(b), Issue of Environmental Clearance- Reg.

This has reference to your application dated 07.10.2015 and further communication on the above mentioned subject.

The project activity is covered in 8(b) of the Schedule and falls under 'B1' category. As per the amendment dated 01.12.2009 to the EIA notification, 2006, the industrial estate of area less than 500 ha but containing building and construction projects > 20,000 sq.m and or development area more than 50 ha will be treated as activity listed at serial no. 8 (a) or 8 (b) in the schedule as the case may be.

In this proposal, no 'A' or 'B' category industry has been proposed to be housed and also the development area (98.96 ha) is more than 50 ha and hence, this project is considered as 8 (b) category which requires EIA report and does not require Public Consultation, as per Para 7(i) III Stage (3) (d) 'Public Consultation' of EIA Notification, 2006.

The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee, Tamilnadu in its 72nd meeting and decided to recommend the project for issue prior environment clearance by SEIAA, and SEIAA after careful consideration decided to



CHAIRMAN
SEIAA-TN



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
ENVIRONMENTAL CLEARANCE

issue Environmental Clearance in its 175th meeting held on 19.05.2016 vide item no. 175 – 7
based on the Information submitted by you which are extracted below.

Sl.No	Particulars	F.No.-4262/2015.
1.	(i) Name of the Project	M/s. SIPCOT AEROSPACE PARK
2.	(ii) Site Address	Annexure - I
3.	Name, address, e-mail & contact number of Proponent	<ul style="list-style-type: none">Name: Dr.R.Selvaraj, IAS, M.D-SIPCOTAddress: 19-A, Rukmani Lakshmipathy Road, Egmore, Chennai 600008Telephone Number: 044-28554514Mobile Number: 9841459919Email id: cmdsipcot2014@gmail.com
4.	Name, address, e-mail & contact number of Consultant	<ul style="list-style-type: none">Name: Dr.V.Nehrukumar PhDAddress: Centre for Environment, Health & Safety Annamalai University, Chidambaram 608002Telephone Number: 04144-238731Mobile Number: 9443223091Email id: centreforchhs@gmail.com
5.	Accreditation of Consultant (NABET accreditation)	Accredited by NABET for industrial estates / parks / complexes / areas / export processing zones / special economic zones / biotech parks / leather complexes A & B Category projects.
6.	New project/Expansion in existing project / Modernization/Diversification in existing Project.	<p>New Project –</p> <p>SIPCOT is proposed to develop Engineering & Allied industries towards manufacturing, repair and maintenance of Aerospace components. R&D not included.</p> <p>As a developer, the SIPCOT has proposed to provide infrastructure facilities like road, water, and other ancillary infrastructure. The land will be allotted to potential Industries based on comprehensive assessment of their application in terms of investment, technology, employment etc</p>


CHAIRMAN
SEIAA-TN



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
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7.	If expansion / Diversification, whether environmental clearance has been obtained for existing project.	Not Applicable
8.	Activity schedule in the EIA Notification	8 (b) - B2.[Industries Not attracting EIA Notification]. Member units to take Consent from the TNPCB individually
9.	Area Details	<ul style="list-style-type: none"> Total Plot area (sq. m): 98.96 Ha. (> 50Ha). i) Area allotted to Member Industries - 196.68 acres- (795939.98sq.mt) ii) Road area – 20.85 acres (94377.30 sq.mt) iii) Common facilities - 2.55 acres(10319.53 sq.mt) iv) Green Belt – 73.62 acres(297930.79sq.mt). <p align="center">Total Plot Area - 244.53 acres (98.96 ha). (400478.55sq.mt).</p>
10.	Name of the Notified Industrial area	SIPCOT Industrial Estate [G.O M.S.No. 3 dated 6.1.2009].
11.	TOR given by SEAC? (If yes, then specify the meeting)	Yes, 68 th SEAC meeting held on 26 th , 27 th & 28 th Oct 2015. Lr.No. SEIAA-TN /F.No.4262/2015/8(b)/ToR No – 229 / 2015 / dated 03.11.2015. [Public hearing is not mandated since the project falls under Item No - 8 of the schedule to EIA Notification].
12.	Estimated capital cost of the project (including cost for land, building, Plant and machinery Separately)	Rs.100 /- Crores
13.	Location Details of the Project:	<ul style="list-style-type: none"> Latitude: 79°54'55.0"E to 79°56'4.76" Longitude: 12°53'32.96" N to 12°52'55.5"N Location: Vallam Village, Sriperumbudur Taluk, Kancheepuram District. Elevation above Mean Sea Level (Meters): +53.85
14.	Distance from the protected Areas/ Critically polluted areas/Eco-Sensitive areas/inter-state	There is no protected areas/critically polluted areas/eco-sensitive areas/inter-state boundaries within the impact area of 10 km radius

Kalyanabharathi
CHAIRMAN
SEIAA-TN
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	boundaries	
15.	Raw Materials (including process, chemicals, catalysts and additives.	Not Applicable; since it is an infrastructure development project.
16.	Production details	Not Applicable ; since it is an infrastructure development project.
17.	Process details/Manufacturing Details	The Proposal is to develop an Industrial Park to promote industries for manufacturing, testing, etc of Aerospace and Avionic industrial sector.[No R & D activity proposed].
18.	Rain Water Harvesting (RWH)	<ul style="list-style-type: none"> • Level of the ground water table: 30 feet All the allottee industries will be mandated to install rainwater harvesting structures in their premises.
19.	Total Water Requirement	Total Water requirement: 0.25 MGD <ul style="list-style-type: none"> • Fresh water : 1150 KLD • [Member units- 1100KLD+Green belt-50 KLD]. • Source: Supplied by metro water through captive pipelines from Chembarambakkam or TTRO water
20.	Storm Water drainage	<ul style="list-style-type: none"> • Natural Water drainage system: All along the roads of SIPCOT Park as open collection systems. The collected water will be used for ground water recharge and fed into nearby lake or pond with permission from concerned authority. • Quantity of storm water: 100000 cubic meter • Size of SWD: 7756 cubic meter
21.	Sewage Generation and Treatment	• Individual member units will be mandated to treat sewage generated to prescribed standards before disposal.
22.	Effluent generation and ETP Details	• Individual member units will be mandated to treat effluent generated to prescribed standards before disposal
23.	Solid waste Management	• Individual member units will be mandated to collect, store and dispose solid/hazardous waste to be generated as per Solid waste Rules/Hazardous Waste management Rules notified.
24.	Energy	Power Supply: Through TNEB grid
25.	Green Belt Development	<ul style="list-style-type: none"> • Green Belt area (Sq. mt): 297929.57 Sq.mt.

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SEIAA-TN
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		<ul style="list-style-type: none"> Green belt will be developed based on the advice of DFO, Kanchipuram. 				
26.	Environmental Management plan Budgetary allocation		Sl.No.	Details	Capital cost (lakhs)	
			1.	Environment Monitoring and Management	25.00	
			2.	Green Belt	100.00	
				Total	125.00	
27	EIA Submitted (If yes then submit the salient features)	<ul style="list-style-type: none"> Period of data collected: February to March 2015 				

Validity:-

The SEIAA-TN hereby accords Environmental Clearance to this project under the provisions of the EIA Notification 2006 as amended, with Validity for Seven years from date of issue subject to the strict compliance of the terms and conditions stipulated below:

SEIAA
TN

(A) Conditions for Pre Construction Phase:-

1. The project authorities should advertise with basic details at least in two local newspaper widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN and a copy of the same should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai.
2. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained.

Kalyanesh
CHAIRMAN
SEIAA-TN



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
ENVIRONMENTAL CLEARANCE

3. A copy of the clearance letter shall be sent by the proponent to the Block development officers of Panchayat union and the Local NGO, if any, from whom suggestions /representations, if any, have been received while processing the proposal. The clearance letter shall also be put on the website of the Proponent.
4. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy of the same shall be submitted to the SEIAA, Tamil Nadu before start of construction activity at the site.
5. 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.
6. 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.
7. All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.
8. Design of buildings should be in conformity with the Seismic Zone Classifications.
9. 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.
10. SIPCOT 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, it is liberty to the Developer to make fresh application for EC before the concerned authority if the Developer so desires to allot / sale the industrial plot for the individual industry to house category A or category B type of industry as prescribed in the schedule of EIA notification 2006 for fresh Environment Clearance (EC).


CHAIRMAN

SEIAA-TN



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
ENVIRONMENTAL CLEARANCE

(B). Construction Phase

11. SIPCOT shall ensure that any construction/ development activity shall not change or alter the course of storm water flow either directly or indirectly and shall ensure that every precautionary step shall be taken to ensure the natural existence of waterways with respect to the nearby lakes.
12. SIPCOT shall mandate that all the member units shall be commissioned only after securing water supply connection from the Chembarambakkam Lake through CMWSSB by SIPCOT.
13. SIPCOT shall adhere the following conditions and also mandate the same for all its member units to adhere the conditions:
 - a. The excavated earth / construction debris must be used within the premises only.
 - b. The solid waste in the form of excavated earth excluding the top soil scientifically utilized for approach road and peripheral roads constructions.
 - c. All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
 - d. Disposal of other construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed of only in approved sites with the approval of competent authority with necessary precautions for general safety and health aspects of people.
 - e. Adequate potable drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.
 - f. All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.
 - g. For disinfection of waste-water, system using ultra violet radiation shall be adopted.


CHAIRMAN
SEIAA-TN
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सत्यमेव जयते

**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
ENVIRONMENTAL CLEARANCE**

- h. For Solid-waste management, composting arrangements shall be provided for biodegradable waste at site.
- 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.
- j. A First Aid Room shall be provided with qualified personnel during operation of the project.
- k. Vehicles hired for bringing construction materials to the site should be in good operable condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.
- l. Building materials composed wholly or partly of fly Ash should be used in the construction activities as per the provision of Fly ash Notification of September, 1999 as amended in August, 2003.
- m. Ready mixed concrete must be used in building construction.
- n. Storm water control and its re-use shall be as per CGWB and BIS standards for various applications.
- o. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
- p. Roof should be designed to meet prescriptive requirement of Energy Conservation Building Code (ECBC) by the use of appropriate thermal insulation material.
- q. Readiness with suitable trained personnel for handling of fire fighting equipments / operations.

(C).Operation Phase

- 14. SIPCOT shall ensure that the water bodies shall be kept in their natural course without any change in its alignment, direction, capacity etc during entire operation phase of the project.

Kalyanath

**CHAIRMAN
SEIAA-TN**



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
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15. SIPCOT shall also ensure that the catchment area of the adjacent lakes shall not be disturbed or realigned or redistributed or restricted etc during the entire operation phase of the project.
16. No bund shall be formed around the premises of SIPCOT which obstruct the rain water flow to the lakes located abetting the Industrial Park.
17. SIPCOT shall mandate all member units to ensure that the treated sewage/ trade effluent collection, storage and Reuse system shall not have any access to the water bodies. All precautionary steps shall be effectively taken and shall be continuously monitored by the Developer so as to prevent the leachate or discharge of the treated sewage/ trade effluent into canal/ Lakes.
18. SIPCOT shall ensure that only after Rehabilitation & Resettlement ie., after making payment to all the land owners, as per law, the land can be allotted to the member industries.
19. The lands under litigation shall not be sold/handed over to any industry till the judgment is finalised and delivered in favour of SIPCOT by the concerned court.
20. SIPCOT shall ensure that the Green Belt Development as committed including the premises owned by the individual industries and a saving clause in the allotment/sale deed executed with every industry shall be provided.
21. SIPCOT shall ensure that no CETP/ CMSWTSF shall be provided for the sewage, trade effluent, municipal solid waste generated from the individual industries except the facilities for the collection, storage and reuse of the treated sewage/ trade effluent /solid wastes by member units as per agreement to be made with the Member units.
22. The water requirement shall be met from the Chembarambakkam Lake (TTRO water) through CMWSSB as committed, by SIPCOT.
23. The measures contemplated in the EIA /EMP report shall be adhered to by the SIPCOT.
24. SIPCOT shall mandate the member units of the Industrial Park to discharge emissions within permissible limits only and to install adequate APC measures and to allot adequate area for green belt development and to install rain water harvesting structures.
25. SIPCOT shall mandate that all its unit shall furnish separate plan of action for disposal of treated sewage during monsoon months such as optimal / minimized usage of water, regulate the application of treated sewage to avoid stagnation etc.


CHAIRMAN
SEIAA-TN
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**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
ENVIRONMENTAL CLEARANCE**

26. The SIPCOT shall ensure that storm water drain provided at project site shall be maintained without chocking for stagnation and should also ensure that the storm water shall be properly disposed in the natural drainage course.
27. SIPCOT shall conduct EIA study for one season excluding rainy season for all parameters such as water, air, noise, waste water etc and submit to SEIAA before March 2017.
28. A separate cell shall be formed and kept in readiness with suitable trained personnel for handling of fire fighting equipments / operations.
29. A First Aid Room shall be provided with qualified personnel during operation of the project.
30. Adequate fire protection equipments and rescue arrangements should be made.
31. SIPCOT as well as its member units shall be mandated to comply the following conditions:
 - a. The SIPCOT shall ensure that rain water collected from the covered roof of the buildings, etc shall be scientifically harvested so as to ensure the maximum beneficiation of rain water harvesting.
 - b. SIPCOT shall mandate all its member units that Rain water harvesting for surface run-off, should be filtered before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease.
 - c. The proponent should also ensure to keep necessary road width as per O.M. dated 7.2.12 of MOEF, GOI, New Delhi with respect to high rise buildings.
 - d. The Plastic wastes shall be segregated and disposed through authorized recyclers.
 - e. The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, etc. and the noise level shall be maintained as per MoEF / CPCB / TNPCB guidelines / norms both during day and night time.
 - f. The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of suitable variety.


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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
ENVIRONMENTAL CLEARANCE

- g. Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for a portion of the buildings shall be provided.
 - h. 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.
 - i. 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.
 - j. Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project.
 - k. SIPCOT shall collect periodical water samples in the adjacent lakes and sufficient well water samples atleast once in 3 months for physio-chemical and biological analysis and shall keep the baseline data for record. The compiled annual Report of Analysis shall be forwarded to TNPCB to ascertain the changes in the quality of the lake water, if any followed by remediation / action.
32. It is mandatory for the Project proponent to furnish to the SEIAA, Half yearly compliance report in Hard and Soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental Clearance.
33. The SEIAA reserves the right to add additional safeguard measures subsequently, if found non compliance of EC conditions and to take action including revoking of this Environmental Clearance as the case may be.
34. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent, if it was found that Construction of the project has been started without obtaining Environmental Clearance, and for action for any violation of any condition stipulated in the Environmental Clearance.
35. 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


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SEIAA-TN
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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
ENVIRONMENTAL CLEARANCE

- periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Chennai and the TNPCB.
36. A copy of the clearance letter shall be sent by the proponent to the Block Development Officer and the Local NGO, if any, from whom suggestions /representations, if any, have been received while processing the proposal. The clearance letter shall also be put on the website of the proponent.
37. 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 contractions due to exposure to dust and take corrective measures, if needed.
38. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.
39. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Chennai.
40. 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.
41. 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 along with the status of compliance of environmental clearance conditions and shall also be sent to the



**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
ENVIRONMENTAL CLEARANCE**

Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.

42. 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.
43. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
44. 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.
45. 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.
46. The above 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 relating to the subject matter.



TN

Kalyanesh
CHAIRMAN
SEIAA-TN

Copy to:-

1. The Principal Secretary to Government,
Environment & Forests Department,
Govt. of Tamil Nadu, Fort St. George,
Chennai – 600 009.

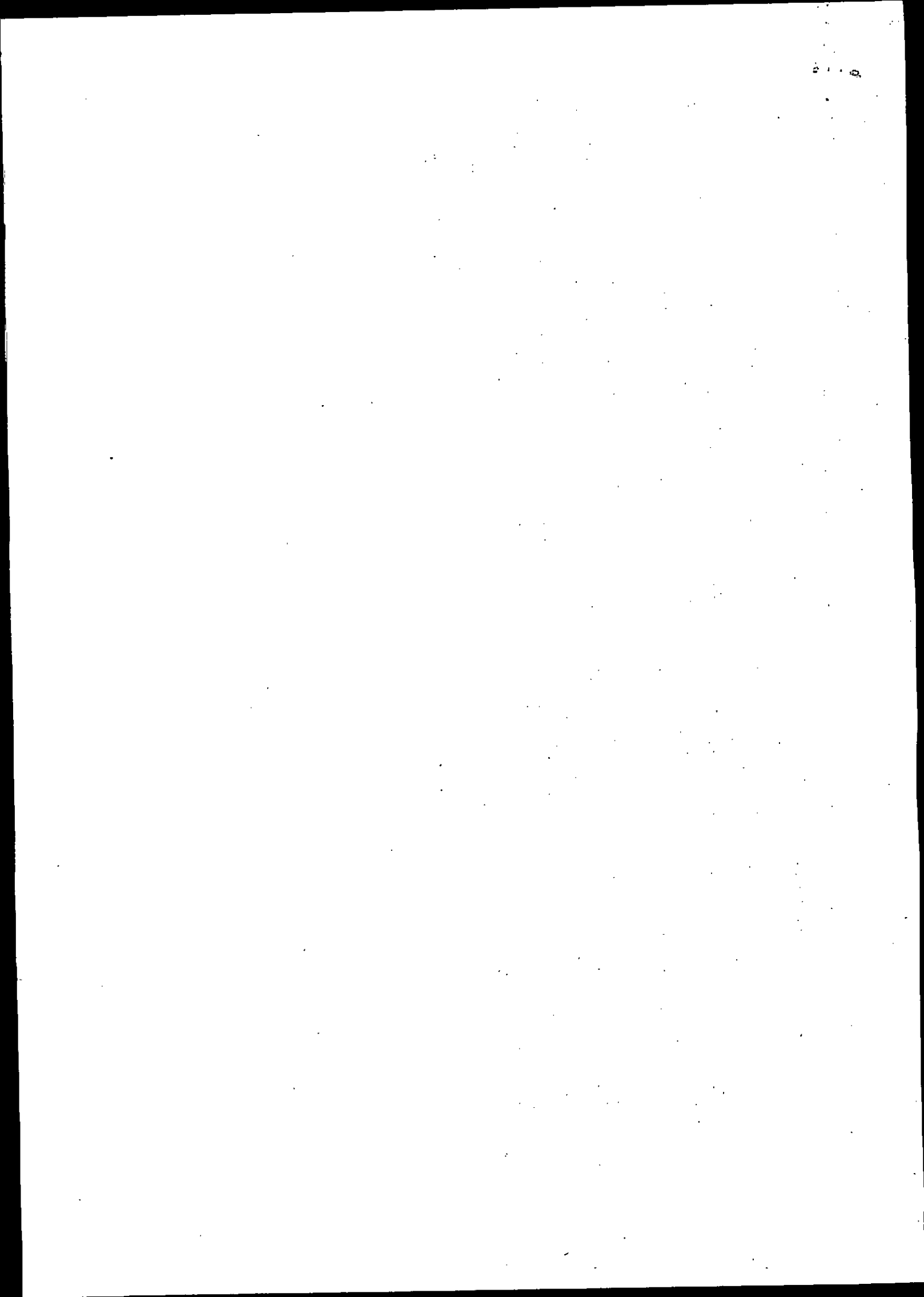


STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
ENVIRONMENTAL CLEARANCE

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 ACCF(C), Regional Office of MoEF,
34, hepc Building, 1 & 2 nd Floors,
Cathedral Garden Road, Nungampakkam,
Chennai - 600 034.
5. Monitoring Cell, I A Division,
Ministry of Environment & Forests,
Paryavaran Bhavan, CGO Complex,
New Delhi 110003.
6. The District Collector, Dt. Collectorate,
Kancheepuram District.
7. The Commissioner ,
Sriperumbudur Taluk, Kancheepuram District.
8. The Chief Engineer (Chennai Region),
WRO, Taramani, Chennai.
9. Stock File.

SIPCOT - AEROSPACE PARK - VALLAM
FMB AREA STATEMENT

SL. No:	S.F.No.	Extent in	
		Hec- are	Acre
<u>I. VALLAM 'A' VILLAGE</u>			
1	6	0.390	0.96
2	7	0.405	1.00
3	8	0.185	0.46
4	9	0.335	0.83
5	10	0.210	0.52
6	11	2.515	6.21
7	12	3.005	7.43
8	13	2.940	7.26
9	14	4.215	10.42
10	22	3.470	8.57
11	23	3.750	9.27
12	24	0.585	1.45
13	32	1.765	11.77
14	52	0.820	2.03
15	207 pt.	2.395	5.92
16	208	2.600	6.42
17	209	2.515	6.21
18	210	4.320	10.67
19	211	1.775	4.39
20	212	2.695	6.66
21	213	2.005	4.95
22	226	1.520	3.76
23	227	2.260	5.58
24	229	3.490	8.62
25	230	3.690	9.12
26	231	4.335	10.71
27	232	4.745	11.72
28	233	0.285	0.70
29	234	5.665	14.00
30	235	3.005	7.43
31	236	0.285	0.70
32	237 pt.	3.940	9.74
33	239 pt.	1.675	4.14
34	240	0.415	1.03
35	241 pt.	0.080	0.20
36	242 pt.	0.200	0.49
37	244 pt.	3.370	8.33
38	245 pt.	2.425	5.99
39	246	0.685	1.69
40	247 pt.	4.945	12.22
41	248 pt.	5.605	13.86
42	276 pt.	0.170	0.42
43	277 pt.	0.270	0.67
TOTAL		98.955	244.53



65
The New Indian Express dt. 15-6-2016



**SIPCOT AEROSPACE PARK, VALLAM VADAGAL
SRIPERUMBUDUR TALUK
KANCHEEPURAM DISTRICT**

ENVIRONMENTAL CLEARANCE

Environmental Clearance has been obtained for the proposed SIPCOT Aerospace Park at Vallam Vadagal, Kancheepuram District from State Level Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide their Lr.No.SEIAA-TN/F.No.4262/2015/8b/EC-471/KPM/2016 dt. 19.5.2016.

The contents of the Environmental Clearance can be downloaded from SIPCOT website www.sipcot.com and also in the SEIAA website www.seiaa.tn.gov.in. Further the copies of the Environmental Clearance could be obtained from the Head Office or SIPCOT.

**MANAGING DIRECTOR
SIPCOT**

**19-A, Rukmani Lakshmipathy Road,
Egmore, Chennai-600 008**

DIPR/550/DISPLAY/2016

தினத்திந்தி

நாள் - 15-6-2016



சிப்காட் வான்வெளி பூங்கா

வல்லம் வடகால்

திருப்பெரும்புதூர் தாலுகா, காஞ்சிபுரம் மாவட்டம்

சுற்றுச்சூழல் இசைவாணை

மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையம், தமிழ்நாடு கடித எண். Lr.No.SEIAA-TN/F.No.4262/2015/8b/EC-471/KPM/2016 தேதி 19.5.2015 மூலம் காஞ்சிபுரம் மாவட்டம், வல்லம் வடகால் கிராமங்களில் அமையவுள்ள வான்வெளி பூங்காவிற்கு சுற்றுச்சூழல் இசைவாணை வழங்கியுள்ளது.

சுற்றுச்சூழல் இவ்விசைவாணையின் முழு விவரங்களை சிப்காட் இணையதளமான www.sipcot.com மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இணையதளமான www.seiaa.tn.gov.in ஆகியவற்றில் பதிவிறக்கம் செய்து கொள்ளலாம். மேலும் இவ்விசைவாணையின் நகலினை இவ்வலுவலகத்தில் பெற்றுக்கொள்ளலாம்.

மேலாண்மை அயக்குநர்

சிப்காட்

**19-அ, ருக்மணி இலட்சுமிபதி சாலை,
எழும்பூர், சென்னை - 600 008**

செ.ம.தொ.இ.550/வரைகலை/2016

Annexure 3

SIPCOT - State Industries Promotion Corporation of Tamil Nadu

https://sipcotweb.tn.gov.in/Environment_clearance

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21	Thervoykandigai	Thiruvallur	Download
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TAMIL NADU POLLUTION CONTROL BOARD

CONSENT ORDER NO. 190128053419 DATED: 11/07/2019.

PROCEEDINGS NO.T2/TNPCB/F.1399SPR/RL/SPR/A/2019 DATED: 11/07/2019

SUB: TNPC Board-Consent for Establishment-M/s. SIPCOT AEROSPACE PARK , S.F. No. 6,7,8,9,10,11,12,13,14,22,23,24,32,52,207pt,208,209,210,211,212,213,226,227,229,230,231,232,233,234,235,236,237pt,239pt,240,241pt,242pt,244pt,245pt,246,247pt,248pt,276pt277pt, 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 for CTE dated 31.01.2017
2. IR.No : F.1399SPR/RL/AE/SPR/2019 dated 23/05/2019
3. Minutes of 173rd TSC meeting held on 19.06.2019 vide agenda item no. 173-8

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

Project Officer, SIPCOT IP, Vallam Vadagal,

M/s . SIPCOT AEROSPACE PARK

S.F

No.6,7,8,9,10,11,12,13,14,22,23,24,32,52,207pt,208,209,210,211,212,213,226,227,229,230,231,232,233,234,235,236,237pt,239pt,240,241pt,242pt,244pt,245pt,246,247pt,248pt,276pt277pt,

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.

6,7,8,9,10,11,12,13,14,22,23,24,32,52,207pt,208,209,210,211,212,213,226,227,229,230,231,232,233,234,235,236,237pt,239pt,240,241pt,242pt,244pt,245pt,246,247pt,248pt,276pt277pt,

VALLAM A B BLOCK Village,

Sriperumbudur Taluk,

Kancheepuram District.

This Consent to establish is valid upto **May 18, 2022**, 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

Project Officer, SIPCOT IP, Vallam Vadagal,

M/s.SIPCOT AEROSPACE PARK,

Vallam 'A' village,Sriperumbudur Taluk, Kancheepuram-602305 ,Kancheepuram District

Pin: 602305

Copy to:

- 1.The Commissioner, SRIPERUMBUDUR-Panchayat Union, 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.	Industrial Plots	98.955	Hectares

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. Additional Conditions:
1. The unit shall ensure that no process emission is let out from its activity
2. The project shall not use ‘use and throwaway plastics’ such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead it shall encourage use of eco friendly alternative such as banana leaf, arecanut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, Jute bag etc.,

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

CONSENT ORDER NO. 190118053419 DATED: 11/07/2019.

PROCEEDINGS NO.T2/TNPCB/F.1399SPR/RL//SPR/W/2019 DATED: 11/07/2019

SUB: TNPC Board-Consent for Establishment-M/S SIPCOT AEROSPACE PARK S.F No. 6,7,8,9,10,11,12,13,14,22,23,24,32,52,207pt,208,209,210,211,212,213,226,227,229,230,231,232,233,234,235,236,237pt,239pt,240,241pt,242pt,244pt,245pt,246,247pt,248pt,276pt,277pt, 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 for CTE dated 31.01.2017
2. IR.No : F.1399SPR/RL/AE/SPR/2019 dated 23/05/2019
3. Minutes of 173rd TSC meeting held on 19.06.2019 vide agenda item no. 173-8

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

Project Officer, SIPCOT IP, Vallam Vadagal,
SIPCOT AEROSPACE PARK

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

S.F.

No.6,7,8,9,10,11,12,13,14,22,23,24,32,52,207pt,208,209,210,211,212,213,226,227,229,230,231,232,233,234,235,236,237pt,239pt,240,241pt,242pt,244pt,245pt,246,247pt,248pt,276pt,277pt,

VALLAM A B BLOCK Village,
Sriperumbudur Taluk,
Kancheepuram District.

This Consent to establish is valid upto **May 18, 2022**, 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

Project Officer, SIPCOT IP, Vallam Vadagal,
M/s.SIPCOT AEROSPACE PARK,
Vallam 'A' village, Sriperumbudur Taluk, Kancheepuram-602305 ,
Pin: 602305

Copy to:

1. The Commissioner, SRIPERUMBUDUR-Panchayat Union, 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.	Industrial Plots	98.955	Hectares

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

a		Sewage Treatment Plant:	
Treatment status: Individual STP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Member units will have their own STP	0	-
b		Effluent Treatment Plant:	
Treatment status: Individual ETP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Member units will have their own ETP	0	-
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			
Effluent Type : Trade Effluent			

4. Additional Conditions:

1. The SIPCOT industrial park (SIPCOT AEROSPACE PARK) shall comply the conditions stipulated in the Environmental clearance issued to the said project vide SEIAA Lr. No. SEIAA-TN/F.No.4262/2015/8 (b)/EC-471/KPM/2016 dated 19.05.2015.
2. The water requirement shall be met from the Chembarambakkam tank through CMWSSB as reported.
3. The SIPCOT shall house industries in the industrial park that do not attract the provisions of EIA Notification 2006 as committed.
4. The SIPCOT shall ensure that the allotted units are mandated to implement ZLD system for treating the trade effluent and shall ensure that no treated / untreated sewage / trade effluent shall gain access outside the unit premises on land / water source under any circumstance.
5. The allotted industries inside the SIPCOT premises shall obtain consent from the Board.
6. No drawl of ground water is permitted within the SIPCOT industrial park.
7. The SIPCOT shall obtain and furnish the necessary approval obtained from the competent authority for drawl of water from Chembarambakkam tank, while applying for CTO.
8. The project generating more than 20 tons of construction and demolition waste or more in one day or 300 tons per project in a month shall segregate the waste into four streams such as concrete, soil, steel, wood and plastics, bricks and mortar and keep the construction and demolition waste within the premise or get the waste deposited at collection centre so made by the local body or handover it to the authorised processing facilities of construction and demolition waste and ensure that there is no littering or deposition of construction and demolition waste so as to prevent obstruction to the traffic or the public or drains.
9. The project shall segregate and store the waste generated by them in three separate streams namely biodegradable, non bio-degradable and domestic hazardous wastes in suitable bins and handover segregated wastes to authorised waste pickers or waste collectors as per the direction or notification by the local authorities from time to time;
10. All gated communities and institutions with more than 5,000 sqm area shall ensure segregation of waste at source by the generators, facilitate collection of segregated waste in separate streams, handover recyclable material to either the authorized waste pickers or the authorized recyclers. The bio-degradable waste shall be processed, treated and disposed off through composting or bio-methanation within their premises. The residual waste shall be given to the waste collectors or agency as directed by the local body.
11. The project shall ensure that the segregated plastic waste must be sent to plastic recycling units. The waste plastics shall not be buried/land filled or burnt.
12. The project shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead it shall encourage use of eco friendly alternative such as banana leaf, arecanut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, Jute bag etc.,

**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****



TC-12310

**TEST REPORT**

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Project Area

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : IS 5182 Part 5 & Part 14

 ULR : TC1231024000043712F
 Report No. : HECS/AP/094/120924
 Sample ID No : 120924156
 Sampling Date : 12/09/2024

 Received Date : 12/09/2024
 Commenced Date : 12/09/2024
 Completed On : 18/09/2024
 Report Date : 18/09/2024
 Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m3	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m3	8.42	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m3	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m3	22.87	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m3	13.50	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m3	48.32	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m3	25.97	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m3	13.55	IS 5182 (Part 2) 2003	80 (24 hours)	50 (Annual)
12	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report


 D.Anusuya
 Lab Manager
 Authorized Signatory

Hubert Enviro Care Systems (P) Ltd.

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Laboratory Services Division

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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 : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Air(All)

Sample Mark : Project Area

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/094/120924/N

Sample ID No : 120924156

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.:01 Issue Date:02/07 2020

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



D.Anusuya
Lab Manager
Authorized Signatory

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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Alagoor

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : IS 5182 Part 5 & Part 14

U.I.R : TC1231024000043715F

Report No. : HECS/AF/097/120924

Sample ID No : 120924159

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	7.42	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	20.16	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	13.94	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	43.18	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	19.16	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	9.32	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report



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Authorized Signatory

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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AH)

Sample Mark : Alagoor

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/097/120924/N

Sample ID No : 120924159

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.01 Issue Date:02/07 2020

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

End of Report



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**TEST REPORT**

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Kunnam

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : IS 5182 Part 5 & Part 14

ULR : TC1231024000043713F

Report No. : HECS/AP/095/120924

Sample ID No : 120924157

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	8.81	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	22.75	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	11.40	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	53.91	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	22.58	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	10.32	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report



D.Amisuya
Lab Manager
Authorized Signatory

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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AH)

Sample Mark : Kunnam

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/095/120924/N

Sample ID No : 120924157

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.01 Issue Date:02-07-2020

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

End of Report



D.Anusuya
Lab Manager
Authorized Signatory

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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Thathamur

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 Humidity (%) : 56.0

Sampling Method & Plan : IS 5182 Part 5 & Part 14

UI.R : TC1231024000043714F

Report No : HECS/AP/096/120924

Sample ID No : 120924158

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m3	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m3	5.32	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m3	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m3	20.14	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m3	13.97	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m3	50.32	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m3	21.47	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m3	14.60	IS 5182 (Part 21) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report

D.Anusuya
Lab Manager
Authorized Signatory



Hubert Enviro Care Systems (P) Ltd.

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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AH)

Sample Mark : Thathanur

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/096/120924/N

Sample ID No : 120924158

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.01 Issue Date:02-07-2020

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Air(AII)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : IS 5182 Part 5 & Part 14

U.L.R : TC1231024000043716F

Report No : HECS/AP/098/120924

Sample ID No : 120924160

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Arsenic	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No..01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
2	Nickel	ng/m3	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No..01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
3	Benzene-AAQ	µg/m3	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
4	Benzo (a) pyrene-AAQ	ng/m3	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
5	Ammonia as NH3	µg/m³	8.40	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
6	Carbon Monoxide (CO)	mg/ m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
7	Nitrogen dioxides as NO2	µg/m³	26.78	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
8	Ozone as O3	µg/m³	12.60	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
9	Particulate matter (Size less than 10 µm)	µg/m³	49.26	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
10	Particulate matter (Size less than 2.5 µm)	µg/m³	23.91	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
11	Sulphur dioxide as SO2	µg/m³	11.42	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
12	Lead	µg/m3	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No..01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)

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

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Air(All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 Humidity (%) : 56.0

Sampling Method & Plan : IS 5182 Part 5 & Part 14

Report No. : HECS/AP/098/120924/N

Sample ID No : 120924160

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	TVOC	ppmv	BLQ(LOQ 0.1)	HECS-G/ENV/AAQ/SOP/005 Issue No.,01 Issue Date:02/07 2020

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



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Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Project Area

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

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

ULR : TC1231024000043960F

Report No. : HECSL/WT/012/120924

Sample ID No : 120924167

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
3	Hi carbonate	mg/l	150.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	64.13	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	171.47	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.7	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA

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Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Project Area

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

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

 ULR : TC1231024000043960F
 Report No. : HECSL/WT/012/120924
 Sample ID No : 120924167
 Sampling Date : 12/09/2024

 Received Date : 12/09/2024
 Commenced Date : 12/09/2024
 Completed On : 19/09/2024
 Report Date : 19/09/2024
 Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	931.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.40	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.034	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	31.59	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	7.12	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	38.14	HECS /WT/SOP/002: 2019	NA	NA
19	pH at 25°C	-	7.61	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	6.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	2.16	IS 11624: 2019	NA	NA
24	Sodium as Na	mg/l	85.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA


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TEST REPORT

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Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Project Area

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

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

ULR : TC1231024000043960F

Report No. : HECSL/WT/012/120924

Sample ID No : 120924167

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO ₄	mg/l	92.41	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO ₃	mg/l	150.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	521.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	2.0	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO ₄	mg/l	0.086	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	0.026	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO ₃	mg/l	290.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	1.1	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Near Project Area

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

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

U.L.R : TC1231024000043960F

Report No. : HECSL/WT/012/120924

Sample ID No : 120924167

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

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

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

End of Report



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(Signature)

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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Aerospace Vallam
Group : Water
Sample Name : Ground Water (All)
Sample Mark : Near Project Area
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 56.0
Sampling Method & Plan : IS 17614(Part-1):2021

Report No. : HECSL/WT/012/120924/N
Sample ID No. : 120924167
Sampling Date : 12/09/2024
Received Date : 12/09/2024
Commenced Date : 12/09/2024
Completed On : 19/09/2024
Report Date : 19/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003 (Diphenyl Carbazide method)

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



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TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Kunnam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 22.0 | Humidity (%) : 45.0

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

ULR : TC12310240000439611
Report No. : HECSL/WT/013/120924
Sample ID No : 120924168
Sampling Date : 12/09/2024

Received Date : 12/09/2024
Commenced Date : 12/09/2024
Completed On : 19/09/2024
Report Date : 19/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
3	Hi carbonate	mg/l	160.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	72.14	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	200.86	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.7	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA



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**TEST REPORT**

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Kunnam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043961F

Report No. : HECSL/WT/013/120924

Sample ID No : 120924168

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 18500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	1046.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.43	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.091	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	36.45	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	22.49	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	42.69	HECS /WT/SOP002: 2019	NA	NA
19	pH at 25°C	-	7.28	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	7.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	2.55	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	97.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA



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TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Kunnam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC12310240000439611
Report No. : HECSL/WT/013/120924
Sample ID No : 120924168
Sampling Date : 12/09/2024

Received Date : 12/09/2024
Commenced Date : 12/09/2024
Completed On : 19/09/2024
Report Date : 19/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO ₄	mg/l	48.69	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method)	200	400
26	Total alkalinity as CaCO ₃	mg/l	160.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	386.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	3.0	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO ₄	mg/l	0.12	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	0.037	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO ₃	mg/l	330.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	1.8	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Kunnam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043961F

Report No. : HECSL/WT/013/120924

Sample ID No : 120924168

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

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

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Kunnam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

Report No. : HECSL/WT/013/120924/N

Sample ID No : 120924168

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
I	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003 (Diphenyl Carbazide method)

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

End of Report



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Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

U.I.R : TC1231024000043962F

Report No. : HECSL/WT/014/120924

Sample ID No : 120924169

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34:Sec 2: 2021 (Nesslerization Method)	0.5	No relaxation
2	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition (Method 5540 B , C): 2017	0.2	1
3	Bi carbonate	mg/l	180.0	IS 3025 Part 51: 2001	NA	NA
4	Biological Oxygen Demand (BOD) ₅ @ 27°C For 3 days	mg/l	BLQ(LOQ:2.0)	IS 3025 Part 44: 1993	NA	NA
5	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57 -Curcumin Method: 2021	0.5	2.4
6	Calcium as Ca	mg/l	56.11	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	75	200
7	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA	NA
8	Chemical Oxygen Demand (COD)	mg/l	BLQ(LOQ:4.0)	IS 3025 Part 58: 2006	NA	NA
9	Chloride as Cl	mg/l	176.37	IS 3025 Part 32: 1988 (Argentometric Method)	250	1000
10	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 Sec 1: 2021	0.05	No relaxation
12	Dissolved oxygen	mg/l	6.8	IS 3025 (Part 38): 1989 (Titrimetric Method)	NA	NA

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TEST REPORT

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Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043962F
Report No. : HECSL/WT/014/120924
Sample ID No : 120924169
Sampling Date : 12/09/2024

Received Date : 12/09/2024
Commenced Date : 12/09/2024
Completed On : 19/09/2024
Report Date : 19/09/2024
Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Electrical Conductivity at 25°C	µS/cm	977.0	IS 3025 Part-14: 2013	NA	NA
14	Fluoride as F	mg/l	0.41	APHA 23rd edition (Method 4500F-B, D): 2017	1.0	1.5
15	Iron as Fe	mg/l	0.085	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Magnesium as Mg	mg/l	31.59	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	30	100
17	Nitrate as NO3	mg/l	29.16	APHA 23rd edition (Method 4500 NO3B): 2017	45	No relaxation
18	Percent Sodium	%	39.79	HECS /WT/SOP/002: 2019	NA	NA
19	pH at 25°C	-	7.31	IS 3025(Part 11) : 2022 (Electrometric method)	6.5-8.5	No relaxation
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43 Sec 1: 2022	0.001	0.002
21	Potassium as K	mg/l	6.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA
22	Residual Sodium Carbonate	meq/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA	NA
23	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit	2.24	IS 11624 : 2019	NA	NA
24	Sodium as Na	mg/l	85.0	IS 3025 Part 45: 1993 (Flame emission Photometric Method)	NA	NA



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TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043962F

Report No. : HECSL/WI/014/120924

Sample ID No : 120924169

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
25	Sulphate as SO ₄	mg/l	89.14	IS 3025 Part 24 Sec 1: 2022 (Turbidity Method) (Turbidity Method)	200	400
26	Total alkalinity as CaCO ₃	mg/l	180.0	IS 3025 (Part 23): 1986	200	600
27	Total dissolved solids	mg/l	557.0	IS 3025 (Part 16): 1984	500	2000
28	Total Suspended Solids	mg/l	2.0	IS 3025 (Part 17): 1984	NA	NA
29	Phosphate as PO ₄	mg/l	BLQ (LOQ: 0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
30	Phosphorous as P	mg/l	BLQ (LOQ: 0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
31	Total hardness as CaCO ₃	mg/l	270.0	IS 3025 (Part 21): 2009	200	600
32	Turbidity, NTU	NTU	0.7	IS 3025 (Part 10): 1984	1	5
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.01	No relaxation
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.7	No relaxation
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.003	No relaxation
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	No relaxation
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05	1.5



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TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043962F

Report No. : HECSL/WT/014/120924

Sample ID No : 120924169

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

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

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Ground Water (All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

Report No. : HECSL/WT/014/120924/N

Sample ID No : 120924169

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
I	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 52: 2003 (Diphenyl Carbazide method)

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

End of Report



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TEST REPORT

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Surface Water (AB)

Sample Mark : Pond near Vallakottai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043963F

Report No. : HECSL/WT/015/120924

Sample ID No : 120924170

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
Discipline : Chemical					
1	Ammonia as NH ₃	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/l	150.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l	4.0	IS 3025 Part 44: 1993	2
4	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 (Curcumin Method)	NA
5	Calcium as Ca	mg/l	48.09	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	32.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	161.67	IS 3025 Part 32: 1988 (Argentometric Method)	250
8	Colour	Hazes units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	6.1	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	932.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.38	APHA 23rd edition Method 4500 F-BD: 2017	1.5
12	Iron as Fe	mg/l	0.22	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO ₃	mg/l	6.74	APHA 23rd edition Method 4500 NO ₃ B: 2017	20



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TEST REPORT

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Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Pond near Vallakottai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043963F

Report No. : HECSL/WT/015/120924

Sample ID No : 120924170

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C	-	7.81	IS 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	522.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B, C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
18	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	26.73	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	41.60	HECSG /WT/SOP/002 Issue No:01, Issue date 18.12: 2021	NA
21	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43: Sec 1: 2022	0.002
22	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	5.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	2.23	IS 11624: 2019	NA



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TEST REPORT

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Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Pond near Vallakottai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043963F

Report No. : HECSL/WT/015/120924

Sample ID No : 120924170

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
26	Sodium as Na	mg/l	78.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO4	mg/l	52.19	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO3	mg/l	150.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO3	mg/l	230.0	IS 3025 Part 21: 2009	300
30	Total Phosphorous as P	mg/l	BLQ (LOQ: 0.02)	IS 3025 Part 31 Sec 1: 2022	NA
31	Total Suspended Solids	mg/l	14.0	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	5.6	IS 3025 Part 10: 1984	1
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.001
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.001

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TEST REPORT

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U.L.R : TC1231024000043963F
Report No. : HECSL/WT/015/120924
Sample ID No : 120924170
Sampling Date : 12/09/2024

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water
Sample Name : Surface Water (All)
Sample Mark : Pond near Vallakottai
Sample Reference : NA
Sample Drawn By : M/s. Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 17614(Part-1):2021

Received Date : 12/09/2024
Commenced Date : 12/09/2024
Completed On : 19/09/2024
Report Date : 19/09/2024
Sample quantity : 1 Litres

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

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Pond near Vallakottai

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

Report No. : HECSL/WT/015/120924/N

Sample ID No : 120924170

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

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

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

End of Report



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**TEST REPORT**

Page : 1 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Pond near Vallam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

U.L.R. : TC1231024000043964F

Report No. : HECSL/WT/016/120924

Sample ID No : 120924171

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
Discipline : Chemical					
1	Ammonia as NH ₃	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 34 Sec 2: 2021	NA
2	Bi carbonate	mg/l	140.0	IS 3025 Part 51: 2001	NA
3	Biological Oxygen Demand (BOD) _{@ 27°C For 3 days}	mg/l	3.0	IS 3025 Part 44: 1993	2
4	Boron as B	mg/l	BLQ(LOQ:0.1)	IS 3025 Part 57: 2021 (Curcumin Method)	NA
5	Calcium as Ca	mg/l	44.09	IS 3025 Part 40: 1991(EDTA Titrimetric Method)	80.10
6	Chemical Oxygen Demand (COD)	mg/l	28.0	IS 3025 Part 58: 2006	NA
7	Chloride as Cl	mg/l	205.76	IS 3025 Part 32: 1988 (Argentometric Method)	250
8	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 Part 4: 2021	10
9	Dissolved oxygen	mg/l	6.2	IS 3025 Part 38: 1989	6
10	Electrical Conductivity at 25°C	µS/cm	996.0	IS:3025 Part 14: 2013	NA
11	Fluoride as F	mg/l	0.44	APHA 23rd edition Method 4500 F-B.D: 2017	1.5
12	Iron as Fe	mg/l	0.11	IS 3025 Part 53: 2003	0.3
13	Nitrate as NO ₃	mg/l	6.28	APHA 23rd edition Method 4500 NO ₃ B: 2017	20

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**TEST REPORT**

Page : 2 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Pond near Vallam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043964F

Report No. : HECSL/WT/016/120924

Sample ID No : 120924171

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
14	pH at 25°C	-	7.78	IS 3025 Part 11: 2022 (Electrometric Method)	8.5
15	Total dissolved solids	mg/l	568.0	IS 3025 Part 16: 1984	500
16	Anionic Surface Active agents as MBAS	mg/l	BLQ(LOQ:0.05)	APHA 23rd edition Method 5540 B, C: 2017	0.2
17	Carbonate	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 51: 2001	NA
18	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 Part 27 sec 1: 2021	0.05
19	Magnesium as Mg	mg/l	21.87	IS 3025 Part 46: 1994 (Volumetric Method using EDTA)	24.28
20	Percent Sodium	%	50.32	HECSG /WT/SOP/002 Issue No:01, Issue date 18.12: 2021	NA
21	Phenolic compounds as C ₆ H ₅ OH	mg/l	BLQ(LOQ:0.001)	IS 3025 Part 43- Sec 1: 2022	0.002
22	Phosphate as PO ₄	mg/l	0.087	APHA 23rd edition Method 4500-P B,D: 2017	NA
23	Potassium as K	mg/l	7.0	IS 3025 Part 45: 1993	NA
24	Residual Sodium Carbonate	mg/l	BLQ(LOQ:1.0)	IS 11624: 2019	NA
25	Sodium Adsorption Ratio(SAR)	Square root of (millimole/lit)	3.0	IS 11624: 2019	NA



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TEST REPORT

Page : 3 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Pond near Vallam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043964F

Report No. : HECSL/WT/016/120924

Sample ID No : 120924171

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

S.No.	Test Parameters	Units	Results	Test Method	Surface water Standards (IS 2296 Class-A)
26	Sodium as Na	mg/l	98.0	IS 3025 Part 45: 1983	NA
27	Sulphate as SO ₄	mg/l	35.74	IS 3025 Part 24 Sec 1: 2022	400
28	Total alkalinity as CaCO ₃	mg/l	140.0	IS 3025 Part 23: 1986	NA
29	Total Hardness as CaCO ₃	mg/l	200.0	IS 3025 Part 21: 2009	300
30	Total Phosphorous as P	mg/l	0.026	IS 3025 Part 31 Sec 1: 2022	NA
31	Total Suspended Solids	mg/l	6.0	IS 3025 Part 17: 1984	NA
32	Turbidity	NTU	3.2	IS 3025 Part 10: 1984	1
33	Arsenic	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.05
34	Barium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1
35	Cadmium	mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	0.001
36	Chromium	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.05
37	Copper	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	1.5
38	Lead	mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	0.1
39	Manganese	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	0.5
40	Mercury	mg/l	BLQ (LOQ: 0.0005)	USEPA 200.8 : 1994	0.001

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TEST REPORT

Page : 4 of 4

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Pond near Vallam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

ULR : TC1231024000043964F

Report No. : HECSL/WT/016/120924

Sample ID No : 120924171

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

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

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Water

Sample Name : Surface Water (All)

Sample Mark : Pond near Vallam

Sample Reference : NA

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

Sample Location : NA

Environmental Condition : Temperature (°C) : 32.0 | Humidity (%) : 54.0

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

Report No. : HECSL/WT/016/120924/N

Sample ID No : 120924171

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 19/09/2024

Report Date : 19/09/2024

Sample quantity : 1 Litres

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

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

End of Report



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TEST REPORT

Page : 1 of 3

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Project Area

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043718F

Report No. : HECS/PE/028/120924

Sample ID No : 120924162

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	21.62	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	4.93	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	29.36	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	27.4	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	32.5	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	40.1	FAO of United Nations, Rome Chapter - III 2008
9	pH Value (@ 25 ° C (1 : 2.5)	-	8.54	IS 2720 (Part 26) 1987
10	Electrical conductivity (@ 25 ° C (1 : 2)	µS/cm	180.0	IS 14767: 2000



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TEST REPORT

Page : 2 of 3

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Project Area

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043718F

Report No. : HECS/PE/028/120924

Sample ID No : 120924162

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.18	FAO of United Nations Rome 2007
12	Organic Carbon	%	1.47	IS 2720 (Part 22) Section I 1972
13	Organic Matter	%	2.54	IS 2720 (Part 22) Section I 1972
14	Available Potassium	mEq/100g	13.50	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No. 01 Issue Date: 02-07-2020
16	Total Nitrogen as N	%	0.0495	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	9.43	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	9.85	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	4.5	IS 2720 (Part 24) Clause 5 1976
20	Infiltration Rate	-	7.9	Inhouse method
21	Water Holding capacity	%	18.2	IS 14765: 2000
22	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No. 01 Issue Date: 02-07-2020
23	Phosphorous	µg/g	56.15	FAO of United Nations, Rome Chapter -

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Aerospace Vallam
Group : Pollution & Environment
Sample Name : Soil(All)
Sample Mark : Project Area
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 56.0
Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/028/120924/N
Sample ID No : 120924162
Sampling Date : 12/09/2024
Received Date : 12/09/2024
Commenced Date : 12/09/2024
Completed On : 18/09/2024
Report Date : 18/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	158.21	HECS-G/INS/SOP/ 042
2	Infiltration Rate	-	7.9	Inhouse method
3	Iron	mg/kg	7.24	Inhouse method
4	Moisture	%	4.86	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02.07. 2020

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



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TEST REPORT

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Kunnam

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

U.L.R : TC1231024000043719F

Report No : HECS/PE/029/120924

Sample ID No : 120924163

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	23.34	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	6.21	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	21.25	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	21.7	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	27.5	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	50.8	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	7.14	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	290.0	IS 14767: 2000



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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Kunnam

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

U.L.R : TC1231024000043719F

Report No. : HECS/PE/029/120924

Sample ID No : 120924163

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.54	FAO of United Nations Rome 2007
12	Organic Carbon	%	2.13	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	3.68	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	16.94	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0125	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	12.48	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	10.68	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	8.4	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	18.8	IS 14765- 2000
21	Colour	-	Red	HECS-G/ENV/SSW/SOP/011 Issue No.01 Issue Date:02-07-2020
22	Phosphorous	ppm	24.65	FAO of United Nations, Rome Chapter -

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Aerospace Vallam
Group : Pollution & Environment
Sample Name : Soil(All)
Sample Mark : Kunnam
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 56.0
Sampling Method & Plan : ICARDA:2013
Report No. : HECS/PE/029/120924/N
Sample ID No : 120924163
Sampling Date : 12/09/2024
Received Date : 12/09/2024
Commenced Date : 12/09/2024
Completed On : 18/09/2024
Report Date : 18/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	128.32	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	28.20	Inhouse method
3	Infiltration Rate	-	5.2	Inhouse method
4	Moisture	%	7.24	HECS-G/ENV/SSW/SOP/003 Issue No.01 Issue Date:02-07-2020

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



D.Amudaya
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**Laboratory Services Division**(Chemical & Biological Testing)
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Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Thathanur

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043720F

Report No. : HECS/PE/030/120924

Sample ID No : 120924164

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	30.52	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	5.62	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	41.32	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	22.4	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	29.6	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	48.0	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	8.12	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	120.0	IS 14767: 2000

D.Anusuya
Lab Manager
Authorized Signatory

**TEST REPORT**

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Thathanur

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043720F

Report No. : HECS/PE/030/120924

Sample ID No : 120924164

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.26	FAO of United Nations Rome 2007
12	Organic Carbon	%	0.47	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	0.82	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	9.56	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No. 01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0065	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	7.38	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	8.54	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	4.6	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	21.2	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No. 01 Issue Date:02-07-2020
22	Phosphorous	µg/g	16.48	FAO of United Nations, Rome Chapter -

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Thathanur

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/030/120924/N

Sample ID No : 120924164

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	163.21	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	0.76	Inhouse method
3	Moisture	%	4.48	HECS-G/ENV/SSW/SOP/003 Issue No.:01 Issue Date:02/07: 2020
4	Infiltration Rate	-	3.5	Inhouse method

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

End of Report



D.Anusuya

Lab Manager

Authorized Signatory

**TEST REPORT**

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043722F

Report No. : HECS/PE/032/120924

Sample ID No : 120924166

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	35.62	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	8.64	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	26.64	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i) Sand	%	35.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii) Silt	%	37.9	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii) Clay	%	26.3	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 ° C (1 : 2.5)	-	8.50	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	156.0	IS 14767: 2000



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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(AB)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043722F

Report No. : HECS/PE/032/120924

Sample ID No : 120924166

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.28	FAO of United Nations Rome 2007
12	Organic Carbon	%	1.64	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	2.84	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	7.56	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.01 Issue Date:02-07-2020
16	Total Nitrogen as N	%	0.0190	IS 14684 Clause 4 1999
17	Exchangable Calcium as Ca	mEq/L	12.52	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	11.20	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	2.1	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	28.6	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.01 Issue Date:02-07-2020
22	Phosphorous	µg/g	54.5	FAO of United Nations, Rome Chapter -

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Vallakottai

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/032/120924/N

Sample ID No : 120924166

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	142.63	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	26.84	Inhouse method
3	Infiltration Rate	-	9.5	Inhouse method
4	Moisture	%	8.32	HECS-G/ENV/SSW/SOP/003 Issue No. 01 Issue Date:02-07-2020

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

Page : 1 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Alagoor

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043721F

Report No. : HECS/PE/031/120924

Sample ID No : 120924165

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/Kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/Kg	31.02	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/Kg	6.32	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Zinc	mg/kg	25.92	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Soil Texture	-	Clay loam	FAO of United Nations, Rome Chapter - III 2008
6	Soil Texture i)Sand	%	29.8	FAO of United Nations, Rome Chapter - III 2008
7	Soil Texture ii)Silt	%	30.2	FAO of United Nations, Rome Chapter - III 2008
8	Soil Texture iii)Clay	%	40.0	FAO of United Nations, Rome Chapter - III 2008
9	pH Value @ 25 °C (1 : 2.5)	-	8.42	IS 2720 (Part 26) 1987
10	Electrical conductivity @ 25 °C (1 : 2)	µS/cm	195.0	IS 14767: 2000



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TEST REPORT

Page : 2 of 2

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Pollution & Environment

Sample Name : Soil(All)

Sample Mark : Alagoor

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : ICARDA:2013

ULR : TC1231024000043721F

Report No. : HECS/PE/031/120924

Sample ID No : 120924165

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
11	Bulk Density	gm/cm ³	1.18	FAO of United Nations Rome 2007
12	Organic Carbon	%	1.84	IS 2720 (Part 22) Section 1 1972
13	Organic Matter	%	3.18	IS 2720 (Part 22) Section 1 1972
14	Available Potassium	mEq/100g	14.34	FAO of United Nations, Rome Chapter - III 2008
15	Boron as B	mg/kg	BLQ(LOQ 0.1)	HECS-G/ENV/SSW/SOP/018 Issue No.01 Issue Date:02.07. 2020
16	Total Nitrogen as N	%	0.0428	IS 14684 Clause 4. 1999
17	Exchangable Calcium as Ca	mEq/L	9.52	FAO of United Nations, Rome Chapter - III 2008
18	Exchangable Magnesium as Mg	mEq/L	9.74	FAO of United Nations, Rome Chapter - III 2008
19	Cation Exchange Capacity	mEq/100g	5.6	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	20.4	IS 14765: 2000
21	Colour	-	Black	HECS-G/ENV/SSW/SOP/011 Issue No.01 Issue Date:02.07. 2020
22	Phosphorous	µg/g	14.20	FAO of United Nations, Rome Chapter -

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

End of Report



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT
Address of the Client : Aerospace Vallam
Group : Pollution & Environment
Sample Name : Soil(All)
Sample Mark : Alagoor
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems (P) Ltd.
Sample Location : NA
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 56.0
Sampling Method & Plan : ICARDA:2013

Report No. : HECS/PE/031/120924/N
Sample ID No : 120924165
Sampling Date : 12/09/2024
Received Date : 12/09/2024
Commenced Date : 12/09/2024
Completed On : 18/09/2024
Report Date : 18/09/2024
Sample quantity : 1 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Manganese	mg/kg	162.57	HECS-G/INS/SOP/ 042
2	Iron	mg/kg	7.54	Inhouse method
3	Infiltration Rate		6.5	Inhouse method
4	Moisture	%	6.92	HECS-G/ENV/SSW/SOP/003 Issue No.01 Issue Date:02-07-2020

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



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TEST REPORT

Page : 1 of 1

Name of the Client : M/s. SIPCOT

Address of the Client : Aerospace Vallam

Group : Atmospheric Pollution

Sample Name : Ambient Noise Levels (Excluding vibration)

Sample Mark : Noise

Sample Reference : NA

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

Sample Location : NA

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

Sampling Method & Plan : IS 9989:1981

ULR : TC1231024000043717F

Report No. : HECS/AP/099/120924

Sample ID No : 120924161

Sampling Date : 12/09/2024

Received Date : 12/09/2024

Commenced Date : 12/09/2024

Completed On : 18/09/2024

Report Date : 18/09/2024

Sample quantity : NA

S.No	Sampling Location	Day Noise level in dB (A)	Night Noise level in dB (A)
1	Project Site	54.3	50.2
2	Kunnam	53.2	48.5
3	Alagoor	51.5	40.1
4	Thathanur	50.2	43.6
5	Vallakottai	54.7	50.2

Noise Standards - CPCB:

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

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

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

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

End of Report



D. Anusuya
Lab Manager
Authorized Signatory



CHIEF ENGINEER (O&M-II)

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

Lr.No:CMWSSB/C.E(O&M)II/S.E(WWT&R) / 45 TTRO-KOY / SIPCOT / 2020-21, Dated:13.04.2020

To
The Managing Director,
SIPCOT,
19-A, Rukmani Lakshmiipathi Road,
Egmore,
Chennai - 600 008.

Sub: CMWSSB - C.E(O&M-II) - S.E(W.W.T&R) - "Design, Build and Operate for 15 years (DBO) a 45 MLD capacity Tertiary Treatment Reverse Osmosis (TTRO) Plant at Koyambedu including supply, laying and maintenance of M.S. transmission main for conveying product water to various SIPCOT industries situated at Irungattukottai, Sriperumbudur and Oragadam" - Works Completed in all aspects - Inaugurated and Commissioned by the Hon'ble Chief Minister of Tamilnadu on 29.11.2019 - Supply of TTRO Water to the M/s. SIPCOT Industrial hub located at Irungattukottai, Pillaipakkam, Vallamvadagal, Sriperumbudur and Oragadam - Commenced from 18.12.2019 - Security deposit to be remitted -Requested - Reminder - Reg.

Ref: Lr.No: CMWSSB / C.E(O&M)II / S.E(WWT&R) / 45 TTRO-KOY / SIPCOT / 2019-20, Dated: 06.12.2019, 16.12.2019 & 24.01.2020.

The work of "Design, Build and Operate for 15 years (DBO) a 45 MLD capacity Tertiary Treatment Reverse Osmosis (TTRO) Plant at Koyambedu including supply, laying and maintenance of M.S. transmission main for conveying product water to various SIPCOT industries situated at Irungattukottai, Sriperumbudur and Oragadam" has been completed in all aspects and has been inaugurated & commissioned by the Hon'ble Chief Minister of Tamilnadu on 29.11.2019. The supply of TTRO product water to the M/s SIPCOT industries located at Irungattukottai, Pillaipakkam, Vallamvadagal, Sriperumbudur and Oragadam from Koyambedu TTRO plant was commenced from 18.12.2019 onwards.

In this connection, it is submitted that, the request for remittance of security deposit for an amount of Rs.2.045 Crores towards the supply of TTRO product water to M/s SIPCOT industries from Koyambedu TTRO plant has been made since 06.12.2019 and further reminders were made vide under references cited.

In this connection, it is submitted that the requisite security deposit amount has not been remitted till date, inspite of continuous follow up with officials of M/s SIPCOT.

As CMWSSB is facing financial crunch for the past more than 5 years with the deficit of about Rs.300 Crores, it is very difficult to manage to remit the Electricity consumption charges of about Rs.1.5 Crores per month towards operation of TTRO plant & Intermediate storage Pumping Stations.

Hence it is requested to cause necessary instructions to the officials to expedite the remittance of security deposit of Rs.2.045 Crores immediately through RTGS/NEFT.

This is submitted for favour of information and requested for early action in this regard.

CHIEF ENGINEER (O&M-II)

பாசனம் - ஸ்ரீமதி மாவட்டம் - திருப்பெரும்புளூர் வட்டம் - இரங்காட்டுக் கோட்டை கிராமம் - அப்போட் தொழில் வளாகத்தில் அமைந்திருக்கிற தொழிற்சாலை ஒன்று - செயல்பரம்பாக்கம் ஏரியிலிருந்து ஓடும் மறிமம் நிலங்களுக்கு நீர்ப்பாசனம் போக எஞ்சிய நீர் 5 மில்லியன் கன அடங்குமளவு - வடிகால் - கால் வெளியிடப் படுகிறது.

பொருள் (பிரிவு)

அரசு துறை (நிலை) - 134

தாள்: 31.3.1997

பக்கங்கள்:

1. மேலாண்மை இயக்குநர், அப்போட் தேர்வுக் கமிட்டி என். 1026/96
தாள்: 2.9.1996.
2. தலைமைப்பொறியாளர், நீர்வள ஆதார அமைப்பு, சென்னை மண்டலம்,
அருடங்கா ஓட்டர் வழங்கல்பற்றை கமிட்டி என். பி.பி. 1/5250/96,
தாள்: 24.12.1996.

...

பாரிசை 1ல் கட்ட கமிட்டியில் அப்போட், மேலாண்மை இயக்குநர் இரங்காட்டுக்கோட்டை அப்போட் தொழில் வளாகத்திற்கு, அங்கு அமையவுள்ள - உருட்டாய் காரி தொழிற்சாலைக்கு தேவையான 1.1 மில்லியன் கன அடங்குமளவு நீர் உட்பட மொத்தம் சுமார் 10 மில்லியன் கன அடங்குமளவு தேவை எந்த கோட்டுக் கொண்டுள்ளது.

2. பாரிசை 2ல் கட்ட கமிட்டியில் தலைமைப்பொறியாளர் நீர் வள ஆதார அமைப்பு சென்னை மண்டலம் மறிமம் அருடங்கா ஓட்டர் வழங்கல் திட்டம், கட்டிட காலக்காலில் செயல்பரம்பாக்கம் ஏரியில் உள்ள நீர் நிலை ஒரே சீராகவும், 1992ம் ஆண்டு 485 மில்லியன் 1980ம் ஆண்டு 711 மில்லியன் கன அடியாகவும், 1996ம் ஆண்டு 2401 மில்லியன் கன அடியாகவும் இருந்திருக்கிறது. மேலும் பதிவு செய்யப் பட்டுள்ள 13,223 ஏக்கர் சுயக்கட்டுகளில் தற்போது விவசாயம் செய்யப்பட்டு வரும் 9800 ஏக்கர் நிலங்களுக்கு நீர்ப்பாசனம் செய்து கொடுக்க வேண்டும் என்ற நிலை உள்ளது என்பது குறிப்பிடப்பட்டுள்ளது. மேலும் இத்தொகுதி சென்னை மாநகருக்கு ஓட்டம் வராத நிலம் செயல்பரம்பாக்கம் ஏரியிலிருந்து வழங்க வேண்டியிருப்பதால் நீர் இருப்பதை கமிட்டியில் கொண்டு தாள் தீர்மானம் வழங்க வேண்டும் என்ற குறிப்பிடப்பட்டுள்ளது.

3. தலைமைப்பொறியாளர் (சென்னை மண்டலம் மறிமம் அருடங்கா ஓட்டர் வழங்கல் திட்டம்) டி கமிட்டியைக் கமிட்டியிலிருந்து அப்போட் தொழில் வளாகத்திற்குச் செயற்குறிப்பை அரசு பரிசீலித்தது.

செயல்பரம்பாக்கம் ஏரியில், நீர் இருப்பதற்கான, பதிவு செய்யப் பட்ட சுயக்கட்டு பகுதிகளுக்கான தேவையான தீர்மானம் சென்னை நகருக்கு ஓட்டலுக்குத் தேவையான ஓட்டரை பூர்த்தி செய்து நீர் செயல்பரம்பாக்கம்



புறக்கணிப்பு / அப்போட் / கமிட்டி அங்கீகரிக்கப்பட்டது.

Handwritten signature and date 21/4.

Handwritten signature and date 21/4.

Handwritten text 'Madam, Sep 2001'.

① AEE.
Pl. Send a copy of this to SIPWT, GM (Tirumala) for information.

Annexure 7

SIPCOT - State Industries Promotion Corporation of Tamil Nadu

https://sipcotweb.tn.gov.in/Compliance_Report

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Annexure 8

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

Date: 30.09.2024

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

1BYRPAD/

Sir,

Sub: SIPCOT Aerospace Park - Environmental Statement for the Financial Year ending 31st March 2024 - Submitted - Reg.

Ref: SEIAA EC Lr.No. SEIAA-TN/F.No-4262/2015/8(b)/EC-471/KPM/2016 dated 19.05.2016.

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 Aerospace Park at Vallam Vadagal Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu for financial year ending 31st March 2024.

Yours faithfully,
Sd/-
MANAGING DIRECTOR

Encl: As above.

/Forwarded by Order/



ASSISTANT GENERAL MANAGER (P-IV)

Sir,
FC compared.
o/c.
slce.
30/9/24

SIPCOT- AEROSPACE PARK MONITORING PHOTOGRAPHS

AMBIENT AIR QUALITY MONITORING PHOTOGRAPH

PROJECT AREA



KUNNAM



THATHANOR



ALAGOOR



VALLAKOTTAI



NOISE MONITORING PHOTOGRAPH




PROJECT AREA



KUNNAM



21/03/2024

THATHANOOR	ALAGOOR
	
VALLAKOTTAI	
	

SOIL SAMPLING PHOTOGRAPH

PROJECT AREA	KUNNAM
	

THATHANOOR	ALAGOOR
 <p>12-09-2024</p>	 <p>12-09-2024</p>
VALLAKOTTAI	
 <p>12-09-2024</p>	

GROUND WATER SAMPLING PHOTOGRAPH

PROJECT AREA	KUNNAM
 <p>12-09-2024</p>	 <p>12-09-2024</p>

VALLAKOTTAI



SURFACE WATER SAMPLING PHOTOGRAPH

POND NEAR VALLAKOTTAI



POND NEAR VALLAM



Green Belt Photograph







12-09-2024



12-09-2024