

Thiru.T.S.Srinivasamurthy, I.F.S.,
DIRECTOR OF ENVIRONMENT AND
MEMBER SECRETARY



STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT AUTHORITY,
TAMILNADU,
4-D, Panagal Maligai, -1 Jeenis Road,
Saidapet, Chennai-600 015.

Letter No. SEIAA / TN/EC/8(b)/112/F- 411/2010 / dt.11.02.2011

To

The Chairman & Managing Director,
M/s.SIPCOT Limited,
19/A, Rukmani Lakshmipathy Road,
Egmore, Chennai-600 008.



Sir,

Sub: SEIAA, TN - Environmental Clearance for development of SIPCOT Industrial Park at SF.No - Vide Annexure, Pillaipakkam, Navalur & Vengadu Villages, Sriperumbudur Taluk, Kancheepuram District by M/s. SIPCOT - Issued- Regarding.

This has reference to your application No. Nil dated 29.11.2010 submitted to the State Level Environment Impact Assessment Authority, Tamil Nadu seeking Environmental Clearance under the Environment Impact Assessment Notification, 2006.

It is noted, interalia, that the project proposal is for the infrastructural development of an Industrial park at SF.No. Vide Annexure of Pillaipakkam, Navalur & Vengadu Villages, Sriperumbudur Taluk, Kancheepuram District as per the application submitted. The total area of development is 342.915 ha and total built- up area as reported is 740.10 acres to accommodate industries that does not attract the provision of EIA Notification 2006, mainly falling under mechanical fabrication / manufacturing category of industries. The member units will be required to take consent from the TNPCB.

As a developer the SIPCOT has proposed to provide infrastructure facilities like roads, storm water drains, street lights, water supply, avenue plantations etc. SIPCOT proposes to allot only lands to the industrial entrepreneurs and to insist them to maintain ZLD in accordance with the TNPCB norms.

Total water requirement for the project is 1 MGD which will be met from the Chembarambakkam Lake vide G.O.Ms.No.734, dt.22.12.1997 through CMWSSB. It has been proposed to provide septic tank with soak pit for treating the 2 KLD sewage generated from the administrative buildings of SIPCOT.

The allotted units will be mandated by the SIPCOT to put up ZLD based Effluent Treatment Plants and will completely recycle or reuse the treated effluent in the process, utilities and for green belt development. No disposal of effluent outside the premises will be permitted by the SIPCOT.

The member units will be mandated by the SIPCOT to discharge emissions within permissible limits only and to install adequate APC measures. Process solid waste & ETP sludge will be collected, stored temporarily and the member units will be mandated to dispose the solid waste to the offsite management facility. The member units will be mandated to allot 10% of the plot area for parking of vehicles, 30% of the plot area for green belt development and to install RWH structures. For power requirement the SIPCOT has proposed to allot 10 acres of land within their premises to the TNEB for setting up of sub-station. The total cost of the project is about Rs. 585 Crores (Variable).

The Proposal has been appraised by the State Level Expert Appraisal Committee in its meeting held on 07.01.2011 as per the prescribed procedure in the EIA Notification, 2006 and on the basis of the mandatory documents enclosed with the application.

The project activity is covered in 8(b) of the Schedule and is of "B₂" category. The SEAC in its meeting held on 07.01.2011 decided as follows:

"As per the amendment dt.01.12.2009 to the EIA Notification 2006, the Industrial Estate of area less than 500 hectare but contains building and construction projects > 20,000 sq meter and or development area more than 50 hectare 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 (342.915 hectare) is more than 50



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hectare and hence this project is considered as 8(b) category which requires EIA report and does not require Public Hearing ."

Therefore it does not require Public Consultation as per Para 7(i) III Stage (3) (d) "Public Consultation" of EIA Notification, 2006.

The SEAC, after due consideration of the relevant documents submitted by the Project Proponent and additional clarifications furnished in response to its observations, has recommended to the SEIAA, Tamil Nadu to grant Environmental Clearance to this project. The proposal was placed before the SEIAA, Tamil Nadu in its meeting held on 08.02.2011.

The SEIAA decided to accept the recommendations of the SEAC and to grant Environmental Clearance to the project under the provisions of the EIA Notification dated 14th September, 2006, as amended subject to the strict compliance of the terms and conditions stipulated below:

PART A- SPECIFIC CONDITIONS

Construction Phase

- i) "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
- ii) The project should be commissioned only after securing water supply connection from the Chembarambakkam Lake through CMWSSB.
- iii) The excavated earth / construction debris must be used within the premises only.
- iv) Adequate 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.

- v) All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.
- vi) For disinfection of waste-water, system using ultra violet radiation shall be adopted.
- vii) For Solid-waste management, composting arrangements shall be provided for biodegradable waste at site.
- viii) The e - waste generated shall be handed over to the authorized recyclers.
- ix) 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.
- x) A First Aid Room shall be provided with qualified personnel during operation of the project.
- xi) The entire quantum of top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
- xii) Disposal of muck, generated during the construction phase should be so managed as not to create any adverse effect on the neighboring areas and communities and be disposed of only in approved sites with the approval of the concerned local body with necessary precautions for general safety and health aspects of people.
- xiii) Soil and ground water samples shall be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- xiv) Construction spoils and spills including bituminous materials and other hazardous materials must not be allowed to contaminate water courses. The dump sites for such materials must be impervious so that they do not leach into the ground water.



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- xv) Low sulphur diesel shall be used for the diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986.
- xvi) 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.
- xvii) Ambient air and noise level should conform to residential standards prescribed by the TNPCB both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase and results of monitoring shall be furnished to the Tamilnadu Pollution Control Board. Adequate measures to reduce air and noise pollution during construction shall be adopted, conforming to the norms prescribed by the TNPCB on noise limits.
- xviii) 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.
- xix) Ready mixed concrete must be used in building construction.
- xx) Storm water control and its re-use shall be as per CGWB and BIS standards for various applications.
- xxi) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
- xxii) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.

- xxiii) Use of glass may be reduced by up to 40% to reduce the electricity consumption load on air conditioning. If necessary, high quality double glass with special reflecting outside coating shall be used for windows.
- xxiv) Roof should be designed to meet prescriptive requirement of Energy Conservation Building Code (ECBC) by the use of appropriate thermal insulation material.
- xxv) Opaque wall should be made to meet prescriptive requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material.
- xxvi) Proper approach road for fire fighting vehicles and for rescue operations in the event of emergency shall be provided.
- xxvii) Adequate fire protection equipments and rescue arrangements should be made.
- xxviii) A separate cell shall be formed and kept in readiness with suitable trained personnel for handling of fire fighting equipments / operations.
- xxix) Design of buildings should be in conformity with the Seismic Zone Classification.
- xxx) All Energy Conservation Building Code (ECBC) norms shall be adopted.
- xxxi) Rubber padding to absorb noise while loading & unloading operation should be provided.
- xxxii) The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearance from other statutory and administrative authorities.
- xxxiii) This Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and take decisions independently of the Environmental Clearance.
- xxxiv) The probable date of commissioning of the project supported with necessary bar charts shall be furnished to the SEIAA, Tamil Nadu.



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Operation Phase

- i) The water requirement shall be met from the Chembarambakkam Lake through CMWSSB as committed, by you (the proponent).
- ii) The measures contemplated in the EIA report shall be adhered to by the SIPCOT.
- iii) Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.
- iv) The SIPCOT shall house in the Industrial park only industries that do not attract the provision of EIA Notification 2006 as committed.
- v) The allotted industries inside the SIPCOT premises shall obtain consent from the TNPCB.
- vi) There shall be no discharge of effluent outside the SIPCOT Industrial Park at any time.
- vii) No drawal of ground water is permitted within the SIPCOT Industrial Park premises.
- viii) 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 30% of the plot area for green belt development and to install RWH structures.
- ix) The 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.
- x) Organic converter shall be installed for treating the organic waste and sludge from septic tank and the treated mass shall be used as manure.

- xi) Rain water harvesting for roof run-off and surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease.
- xii) The Plastic wastes shall be segregated and disposed through authorized recyclers.
- xiii) A First Aid Room shall be provided with qualified personnel during operation of the project.
- xiv) Adequate fire protection equipments and rescue arrangements should be made.
- xv) A separate cell shall be formed and kept in readiness with suitable trained personnel for handling of fire fighting equipments / operations.
- xvi) 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.
- xvii) 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.
- xviii) 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.
- xix) 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.
- xx) 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.



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PART-B. GENERAL CONDITIONS (Construction and Operation stage)

- 1) 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.
- 2) In the case of any change(s) in the scope of the project, a fresh Environmental Clearance from the SEIAA shall be obtained.
- 3) The SEIAA reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the Environmental Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- 4) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the competent authorities.
- 5) The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing the public that
 - i) The project has been accorded Environmental Clearance.
 - ii) Copies of clearance letters are available with the Tamil Nadu Pollution Control Board.
 - iii) Environmental Clearance may also be seen on the website of the SEIAA(www.seiaa.tn.gov.in)

The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same shall be forwarded to the SEIAA.

- 6) All the stipulations stated under Part A and Part B above would be enforced in addition to the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and EIA Notification, 2006.
- 7) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it is found that Construction of the project has been started without obtaining Environmental Clearance, and for action for any violation of any condition stipulated in Part – A & Part – B of the Environmental Clearance.
- 8) This Environmental Clearance is subject to final orders of the Hon'ble Supreme Court of India in the matter of Goa foundation Vs. Union of India in Writ Petition (civil) No.460 of 2004 as may be applicable to this project.
- 9) This Environmental Clearance is valid for five years from the date of issue.
- 10) Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project and report furnished to the Tamilnadu Pollution Control Board.
- 11) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) on incremental pollution load to the Regional Office of MoEF, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. This shall also be put on the website of the Company by the proponent.
- 12) The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the complex in the public domain.



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- 13) A copy of the clearance letter shall be sent by the proponent to the Commissioner, Sriperumbudur Panchayat Union, Sriperumbudur Tk, Kancheepuram District and the Local NGO, if any, from whom suggestions /representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

[Signature] 11/2/11
Member Secretary,
State Level Environment Impact
Assessment Authority,
Tamil Nadu.

Copy to:-

1. The Secretary to Government, Environment & Forests Dept,
Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Secretary to Government, Industries Dept,
Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
3. The Chairman, Central Pollution Control Board, Parivesh Bhavan,
CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
4. The Member Secretary, Tamil Nadu Pollution Control Board,
76, Mount Salai, Guindy, Chennai-600 032.
5. The CCF, Regional Office, Ministry of Environment & Forest (SZ),
Kendriya Sadan, IV floor, E&F wings, 17th Main Road,
Koramangala II Block, Bangalore - 560034.
7. Monitoring Cell, I A Division, Ministry of Environment & Forests,
Paryavaran Bhavan, CGO Complex, New Delhi 110003.
8. The District Collector, Dt. Collectorate,
Kancheepuram District.

9. The Commissioner Sriperumbudur Panchayat Union,
Sriperumbudur Tk, Kancheepuram District.

10. The Chief Engineer (Chennai Region),
WRO, Taramani, Chennai.

11. Stock File.