

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(a)/097/F- 325/2010 / dt. 14.10.2010

To

The Vice-President,
M/s. Cognizant Technology Solution India Pvt.Ltd,
No.38-39, 2nd Floor, Whites Road,
Chennai-600 014.

Sir,

Sub: SEIAA, TN - Environmental Clearance for Construction of Software Development Complex by M/s.Cognizant Technology Solutions India Pvt.Ltd at S.Nos. 240pt, Siruseri Village & S.No.117pt of Kazhipattur Village, SEZ - SIPCOT IT Park, Chengalpattu Taluk, Kancheepuram District - Issued- Regarding.

This has reference to your application No. Nil dated 25.02.2010 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 involves construction of Software Development Complex as per the application submitted. The area of the plot is 10.88 hectares and total built- up area as reported is 3,74,289 m² comprising Software Development Blocks - SDB 1 & 2 each with Stilt+7 floors, SDB 3 & 4 each with stilt+ 13 floors, SDB 5 with Ground+13 floors, Canteen and Amenities block 1 - (kitchen+3 levels of Dining + 1 level of amenities), Canteen and Amenities block 2 - (kitchen + 4 levels of Dining + 1 level of amenities), MLCP/Service Building 1 - (10 levels), MLCP/Service Building 2 - (10 levels), Auditorium & Security office. Total water requirement for the project is 1432 KLD. Daily fresh water requirement is 605 KLD, which will be met from the SIPCOT as per the letter dated 16.07.2010. It has been proposed to provide a Sewage Treatment plant of 929 KLD capacity for the treatment of sewage. The treated sewage of 804 KLD will be used for toilet flushing (405 KLD), Cooling Tower

make up (349 KLD) (from UF permeate) and Gardening & landscaping (125 KLD) (from STP). Solid waste generation has been projected as 6024 kg/day. Total parking area proposed for parking 6735 two wheelers and 4209 numbers of four wheelers is 8438.20 m². The power required is of 25 MVA with backup power of 3 Nos DG set of capacity 2000 KVA each (Phase I) and 3 Nos DG set of capacity 2000 KVA each (Phase II). The total cost of the project is about Rs.990 Crores (variable).

The Proposal has been appraised by the State Level Expert Appraisal Committee in its meeting held on 22.07.2010 as per the prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application.

The project activity is covered in 8(a) of the Schedule and is of "B₂" category. 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 07.10.2010. 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 obtaining water supply from the SIPCOT.



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- iii) 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.
- iv) All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.
- v) **For disinfection of waste-water, system using ultra violet radiation shall be adopted.**
- vi) **For Solid-waste management, composting arrangements shall be provided for biodegradable waste at site.**
- vii) **Sewage Treatment Plant of capacity 1000 KLD shall be provided in place of 929 KLD proposed in the project document.**
- viii) **The e – waste generated shall be handed over to the authorized recycler, M/s.Trishyiraya Recycling India Pvt.Ltd, MEPZ -SEZ, Tambaram as per the agreement dt.24.02.2009.**
- 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 in the project site during the construction 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 (Panchayat / Panchayat Union) 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 should not leach into the ground water.
- 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.



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- xxii) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devises / sensor based control.
- xxiii) Use of glass may be reduced up to 40% to reduce the electricity consumption on lighting and load on air conditioning. If necessary, high quality double glass with special reflecting coating in windows shall be used.
- 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) The probable date of commissioning of the project supported with necessary bar charts shall be furnished to the SEIAA, Tamil Nadu.
- xxvii) Adequate fire protection equipments and rescue arrangements should be made.
- xxviii) Proper approach road for fire fighting vehicles and for rescue operations in the event of emergency shall be provided.
- xxix) Design of buildings should be in conformity with the Seismic Zone Classification.
- xxx) All Energy Conversation Building Code (ECBC) norms shall be adopted.
- xxxi) **Mechanical dewatering arrangements shall be provided for the sludge from sewage treatment plant instead of sludge drying beds.**
- xxxii) Rubber padding to absorb noise while loading & unloading operation should be provided.
- xxxiii) 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.

- xxxiv) 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.

Operation Phase

- i) The water requirement shall be met from the SIPCOT as committed.
- ii) The installation of the sewage treatment plant (STP) shall be certified by an independent expert and a report in this regard shall be sent to the SEIAA before the project is commissioned for operation. Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.
- iii) For disinfection of treated sewage, system using ultra violet radiation shall be adopted, instead of chlorination.
- iv) The treated sewage must satisfy the standards prescribed by the TNPCB for disposal into surface waters.
- v) The unit shall furnish separate plan of action for disposal of treated sewage during monsoon months.
- vi) Organic converter shall be installed for treating the organic waste and sludge from STP and the treated mass shall be used as manure.
- vii) 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.
- viii) The Plastic wastes shall be segregated and disposed through authorized recyclers.
- ix) A First Aid Room shall be provided during operation of the project.



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- x) 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.
- xi) 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.
- xii) 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.
- xiii) Traffic congestion near the entry and exit points from the roads adjoining the proposed projects site shall be avoided. Parking shall be fully internalized and no public space should be utilized.
- xiv) 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.

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 appraisal by 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.

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.



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- 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.
- 13) A copy of the clearance letter shall be sent by the proponent to the Commissioner, Thiruporur Panchayat Union, Chengelpattu Taluk., 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.

14/10/10
File
**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 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 CCF, Regional Office, Ministry of Environment & Forest (SZ),
Kendriya Sadan, IV floor, E&F wings, 17th Main Road,
Koramangala II Block, Bangalore - 560034.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests,
Paryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The Commissioner, Thiruporur Panchayat Union, Chengelpattu
Taluk, Kancheepuram District.
7. The Managing Director,
SIPCOT, 19 - A, Rukmani Lakshmipathi Road, Egmore, Chennai - 8.
8. Stock File