

THIRU. K.V. GIRIDHAR, I.F.S., MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU

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

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F.No.7790/EC/8(b)/770/2021 dated: 30.06.2021

To,

M/s.Tata Consultancy Services Limited,

1/G1, SIPCOT IT Park,

Siruseri,

Chennai - 603 103.

Sir,

- Sub: SEIAA, TN Environmental Clearance for the proposed Expansion of TCS Siruseri new Tech Park SEZ by M/s. Tata Consultancy Services Limited at S.F.Nos. 87/1, 87/2, 87/3, 88, 89, 91Pt, 91/22 & 91/23, Plot No.H-11/1B, H-11/1C & H-11/2 at SIPCOT IT Park, Egattur village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu Under Sl. No 8 (b) of Category "B1" Township and Area Development Projects as per the EIA Notification 2006 as amended Issued Regarding.
- Ref: 1. ToR issued by SEIAA-TN vide Lr No.SEIAA-TN/F.No.7790/SEAC/8(b)/ToR-825/2020 dated: 11.12.2020
 - 2. Online Application No: SIA/TN/MIS/59790/2020 Dated: 18.01.2021 (EC)
 - 3. Minutes of the 204th SEAC Meeting held on 25.02.2021
 - 4. Proponent Submitted EIA report to SEIAA-TN on 05.03.2021
 - 5. Minutes of the 211th SEAC Meeting held on 24.04.2021
 - 6. Minutes of the 445th SEIAA meeting held on 14.06.2021

This has reference to your application 2nd and 3rd cited, wherein you have submitted proposal for obtaining Environmental Clearance for Expansion of TCS Siruseri new Tech Park - SEZ by M/s. Tate Consultancy Services Limited under Category B1 and Schedule S.No. 8(b) under the Environment Imp ct Assessment Notification, 2006.

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

| PROJECT DETAILS | | | | |
|-----------------|-----------------------|---|-------------------------|--------------------------------------|
| 5. NO | Description | Details | | |
| 1 | Name of the Project | Proposed Expansion of TCS Siruseri new Tech Park - SEZ by | | |
| | | M/s. Tata Consultancy Services Limited | | |
| 2 | Location | SF. No. 87/1, 87/2, 87/3, 88, 89, 91Pt, 91/22 & 91/23, Plot No.H- | | |
| | | 11/1B, H-11/1C & H-11/2 at SIPCOT IT Park, Egattur village, | | |
| | | Thiruporur Taluk, Chengalpattu District, Tamil Nadu | | |
| 3 | Type of Project | Township and Area Development Projects | | |
| | | Schedule 8 (b) >1, 50,000 Sq. Mts. of built-up area. | | |
| | | Built up area is 309007.77 Sq.m. | | |
| 4 | Total Area (in sq. m) | Total Plot area – 76646.87 Sqm | | |
| | | Description | Existing Area (Sq.m) | Total Area after Expansion (Sq.m) |
| | | Building Foot Print | 1902.84 | 24841.25 |
| | | Services | 442.57 | 2808.67 |
| | | Parking Area | 505.20 | 5400.00 |
| | | Road & Pathways | 1498.64 | 25193.75 |
| | | Substation | 192.20 | 1353.24 |
| | | Landscaped Green | 297.30 | 5118.00 |
| | | Green Belt Area | 2069.20 | 12691.96 |
| | | Sub total | 6907.95 | NA |
| | | Future Expansion | 69738.92 | NA |
| | | Grand Total | 76646.87 | 76646.87 |

Annexure 1

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| 5 | Built up area | | Existing Built | Proposed Build | After |
|---------|----------------------|--|----------------|----------------|-------------|
| | | Building | Up Area | Up Area | Expansion |
| 1.0 | | Amenity Block | | 6007.46 | 6007.46 |
| inter a | | Block 1 | | 83584.64 | 83584.64 |
| | | Block 2 & 3 | | 155011.22 | 155011.22 |
| | | BMP Room | | 70.00 | 70.00 |
| | | Gas Banks | | 84.35 | 84.35 |
| | | Basement | | 50945.69 | 50945.69 |
| | | OWC/Solid Waste | | 120.00 | 120.00 |
| | | Pump Room 1 | | 1810.20 | 1810.20 |
| | | Pump Room 2 | it. | 1244.32 | 1244.32 |
| | | Security Blocks | 2- | 970.02 | 970.02 |
| | | Sub Station | | 384.00 | 384.00 |
| | | Utility Block | यत्र | 6575.58 | 6575.58 |
| | - | IDC (Existing Bldg) | 2200.31 | - | 2200.31 |
| | | Total Area in Sq.M | 2200.31 | 3,06,807.46 | 3,09,007.77 |
| | | Total Area in Sq.Ft | 23683.94 | 3302448.02 | 3326131.96 |
| 6 | Cost of Project | Rs. 876 Crores | | | |
| 7 | Brief description of | Expansion of TCS Siruseri new Tech Park - SEZ consisting of 3 | | | |
| in m | the project | towers (B1 + 3 stilts + 11 floors), Utility block (G+2), initial | | | |
| | - | development centre | | | |
| 8 | Documents enclosed | Form I, Form 1A, Conceptual Plan, Annexure | | | |
| 9 | a) Water requirement | During Construction During Operation | | | |

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| | kLD | 92 kLD | Total water requirement (after expansion) – 1305 kLD | |
|----|---------------------|-----------------------------------|---|--|
| | | | Fresh water requirement - 788 | |
| | | | kLD | |
| | b) Source | Tankers | SIPCOT | |
| 10 | Quantity of Sewage | Quantity of Total sewage | e generated – 1174 kLD | |
| | kLD | | | |
| 11 | Details of Sewage | Sewage Treatment Plant | - 1200 kLD (MBR Technology) | |
| | Treatment Plant | 1. Bar Screen Chamber | | |
| | | 2. Aeration system | | |
| | | 3. Oil & Grease Trap | | |
| | | 4. Equalization tank | | |
| | | 5. Fine Screen | | |
| | | 6. Anoxic Tank | | |
| | | 7. Bio reactor tank | | |
| | | 8. Membrane tank | | |
| | | 9. Ultra violet system | | |
| | | 10. Sludge Holding Tank | | |
| 12 | Mode of Disposal of | 1. Toilet Flushing – 517 kLD | | |
| | treated sewage with | 2. Greenbelt Development – 40 kLD | | |
| | quantity | 3. HVAC Cooling Tower – 558 kLD | | |
| 13 | Quantity of Solid | Quantity | Mode of treatment and Disposal | |
| | Waste generated per | a) Biodegradable solid | Organic Waste Converter / | |
| | day (in Kgs), Mode | waste: 1512 kg/day | Bio-Methanation plant | |
| | of treatment and | b) Non-Biodegradable | Authorized Recycler | |
| | Disposal of Solid | waste: 2268 kg/day | | |
| | Waste | c) STP dry sludge: | Used as manure for gardening / Green Belt | |
| | | 142 kg/day | | |
| | | d) E- waste: 3 TPA | TNPCB authorized recyclers | |
| 14 | Power requirement | 20000 kVA from TANC | JEDCO | |



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| 15 | Details of D.G. set | 2 Nos. of 250 kVA (Existing) |
| | with Capacity | 14 Nos. of 2000 kVA (Proposed) |
| 16 | Air Pollution Control | Combined stack height 32m from GL |
| | Measures (Stack) | |
| 17 | Details of Green Belt | 2069.20 Sq.m (existing) |
| | Area | 12,691.96 Sq.m (after expansion) |
| 18 | Details of Parking | 505.20 Sq.m. (existing) |
| | Area | 5,400.00 Sq.m. (after expansion) |
| 19 | Provision for rain | Percolation pits – 145 Nos. |
| | water harvesting | Rain water collection sump – 600 cu.m |
| 20 | EMP Cost (Rs.) | For Operation Phase: |
| | | Capital Cost – Rs. 3053 Lakhs |
| | | Operation cost – Rs. 125.3 Lakhs per annum |
| 21 | CER activities with | 1. Local infrastructure development Shelter fund - Rs.574 Lakhs |
| | the specific | 2. Landscaping development and maintenance around the project |
| | allocation of funds | site and roads outside the project site - Rs.14 Lakhs |
| | | Total - Rs.588 Lakhs |

Annexure 2 - Affidavit

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

FOR DRAWAL OF FRESH WATER SUPPLY, SEWAGE DISPOSAL, SOLID WASTE DISPOSAL, CURRENT STATUS OF THE SITE, STP OPERATION, STORM WATER MAINTENANCE, CER COST FOR THE PROJECT (7790) UNDER APPRAISAL IN STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

We, M/s. Tata Consultancy Services Limited., Chennai represented by its, Senior General Manager, Col. S. Kumaran, has proposed expansion of TCS Siruseri New Tech Park – SEZ at survey numbers 87/1, 87/2, 87/3, 88, 89, 91Pt, 91/22 & 91/23, Plot No.H-11/1B, H-11/1C & H-11/2 located at SIPCOT IT Park - Siruseri, Egattur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu having 18.94 acres of land with proposed built up area after the expansion of 3,09,007.77 Sq.m (Existing Built up area - 220031.31 Sq.m and Proposed Expansion - 3,06,807.46

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Sq.m.). An application submitted by us seeking Environmental Clearance under the EIA Notification, 2006 is under scrutiny with the Authority.

I / We furnish the following undertakings to the Authority.

- I / We Sworn that
- 1. We fully assure that Green Belt Area of 12691.96 Sq.m which works out to be 16.56 % of the total site area of 76646.87 Sq.m will be allotted and will not be used for any other activities. We ensure we will earmark the greenbelt area with dimension and GPS coordinates all along the boundary of the project site with at least 3 meters wide and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval A wide range of indigenous plant species shall be planted in and around the premise in consultation with DFO, District / State Agriculture University.
- 2. We ensure tapping of solar energy will be atleast 10% of total energy consumption and utilised mainly for the illumination of common areas, street lighting etc.
- 3. We shall draw the daily freshwater requirement of 788 KLD during the entire period of operation from SIPCOT. The agreement with SIPCOT for supply of water has been signed on 30th December 2019. We hereby undertake and commit that required water for the entire period of operation will be sourced from SIPCOT. We shall commission the project, only after providing required water supply for the whole project as committed.
- 4. Quantity of sewage generated during operational phase (after expansion) shall be 1,174 KLD. This sewage will be treated through Sewage Treatment Plant of capacity 1,200 KLD based on Membrane Bio Reactor (MBR) technology. The treated water of 1,115 KLD will be reused for greenbelt development (50 KLD), Toilet Flushing (517 KLD) and HVAC Cooling Tower (558 KLD). We commit the continuous operation and maintenance of STP to achieve the standards prescribed by the CPCB/TNPCB.
- 5. We ensure the height of the stacks of DG sets will be provided as per the CPCB norms.
- 6. We assure that domestic solid wastes will be regularly collected in bins or waste handling receptacles and disposed of as per the solid waste management rules 2016. The biodegradable waste of 1512 kg/day shall be treated by Biomethanation Plant and non-biodegradable waste of 2268 kg/day shall be given to Authorized Recyclers. The STP Sludge generated of 142 kg/day will be dewatered using centrifuge and the same shall be used as manure for Green Belt development.

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- 7. We assure to provide backup power supply to STP from standby D.G set for continuous operation of the STP in case of power failure.
- We fully assure that all the recyclable waste including used papers, batteries and metal scraps etc. will be properly collected for eventual re-use and recycling as per the Hazardous Waste Management Rules, 2016.
- 9. We commit that no waste will be disposed of in any watercourse including drains, canals, and to the surrounding environment.
- 10. We ensure the strict adherence of safety measures as prescribed in the report.
- 11. We fully avoid any traffic congestion near the entry and exit points from the roads adjoining with the strict adherence to the traffic measures.
- 12. We fully ensure the proper disposal of E-waste through and authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.
- 13. As per the MoEF&CC, Office Memorandum F.No. 22-65/2017-IA.III dated 30.09.2020 ad 20.10.2020 the detailed EMP mentioning all the activities as proposed in the CER is prepared and furnished here under:

| S. No | Activity | Total Budget in Rs. in Lakhs |
|----------|---|---------------------------------|
| 1. | Local Infrastructure development – Shelter Fund | 574 |
| 2. | Landscaping development and maintenance around the project site and roads outside the project site | 14 |
| Total | | 588 |

14. We also commit that no construction activities were carried out at the site and site is vacant. In this regard, photographs of the project site taken on the 25th Day of May of the Year 2021 are enclosed and the same has been attested by me.

15. We also commit that the site does not encroach any water bodies / reserve forests / wetlands.

As authorized signatory of this project, I am aware that I can be prosecuted under relevant Act and Rules, if I am not ensuring the adherence of the above commitments.

SEAC Recommendations:

The proposal was placed in 204th SEAC meeting held on 25.02.2021 & 211th SEAC meeting held on 24.04.2021. Based on the presentation made and the documents furnished by the Project proponent, the SEAC decided to recommend the proposal to SEIAA for grant of Environmental Clearance subject to the following conditions in addition to standard conditions stipulated by the MoEF&CC.





- The project proponent shall continuously operate and maintain the Sewage treatment plant & Grey Water Treatment Plant to achieve the standards prescribed by the TNPCB/CPCB.
- 2. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc.,
- 3. The height of the stacks of DG sets shall be provided as per the CPCB norms.
- 4. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premises.
- 5. The proponent shall earmark the greenbelt area with dimension and GPS coordinates all along the boundary of the project site with at least 3 meters wide and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 15% of the total area and the same shall not be used for car parking.
- 6. The proponent shall make proper arrangements for the disposal of the excess treated water from the proposed site for Toilet flushing, Green belt development & OSR.
- 7. The sludge generated from the sewage Treatment plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.
- 8. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
- 9. The project proponent shall provide Bio-methanation plant for bio-degradable waste.
- 10. The project proponent shall revise Rain water and Storm water design plan.
- 11. The purpose of Green belt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. Miyawaki method of planting i.e. planting different types of trees at very close intervals may be tried which will give a good green cover. A total of 15% of the plot area should be designated for green belt which should be raised along the boundaries of the plot with minimum of 3mt width and in between blocks in an organized manner.

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- 12. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the pubic usage as committed.
- 13. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
- 14. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
- 15. No waste of any type to be disposed-off in any other way other than the approved one.
- 16. The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.
- 17. All the mitigation measures committed by the proponent for the flood Management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
- 18. Solar energy should be at least 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
- 19. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 & 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the activities as proposed in the CER and furnish the same before placing the subject to SEIAA.

SEIAA Recommendations:

The subject was placed before the 445th Authority meeting held on 14.06.2021. After detailed discussion, the Authority unanimously accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC & normal condition in addition to the following condition.

- As per the MoEF&CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP, mentioning all the CER activities for Rs.588.0 lakh as committed. All the CER activity shall be carried out before obtaining CTO from TNPCB.
 - Part-A Common conditions applicable for Pre-Operation and Operational Phases
 - Part-B Conditions for Pre-Operation Phase.
 - Part-C Specific Conditions Construction phase





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

Validity:

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

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

- 1. Any appeal against this Environmental Clearance shall be with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 2. The construction of STP, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.
- 3. The Environmental safeguards contained in the application of the proponent /mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.
- 4. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.
- 5. The SEIAA reserves the right to add additional safeguard measures subsequently, if noncompliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.
- 6. A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.

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- 7. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of Environmental Clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
- 8. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- 9. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
- 10. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
- 11. The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments ,draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules ,2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law, including the Hon'ble National Green Tribunal relating to the subject matter.
- 12. The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
- Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- 14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.



- 15. The SEIAA, TN may cancel the Environmental Clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this Environmental Clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the Environmental Clearance.
- 16. The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.
- 17. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.
- 18. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
- 19. Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for every one tree that is cut) should be done with the obligation to continue maintenance.
- 20. A separate environmental management cell with suitable qualified personnel should be setup under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.
- 21. The EMP cost shall be printed in the Brochure / Pamphlet for the preparation of the sale of the property and should also mention the component involved.
- 22. Trees, herbs and shrubs listed should not be disturbed during any phase of the project.
- 23. Necessary permission should be obtained from PWD/Wetland Authority, Tamil Nadu before commencement of the project.
- 24. The EMP cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually
- 25. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986



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- 26. The proponent shall furnish the permission/ NOC of water supply from the competent authority before obtaining CTO from TNPCB.
- 27. The Project Proponent has to provide rain water harvesting and the rainwater collection sump in order to recover and reuse the rain water during normal rains as reported
- 28. The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval.
- 29. As per MoEF & CC, GoI, Office Memorandum dated 30.03.2015, prior clearance from Forestry & Wildlife angle including clearance from obtaining committee of the National Board for Wildlife as applicable shall be obtained before starting the operation, if the project site is located within 10KM from National Park and Sanctuaries.

Part - B - Specific Conditions - Pre construction phase:

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



- 7. The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
- 8. No construction activity of any kind shall be taken up in the OSR area.
- 9. Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.
- 10. The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.
- 11. The basement of the building shall be above the maximum flood level documented by the Water Resource Department, PWD, Government of Tamil Nadu in consultation with the CMDA.
- 12. The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details
 - i. Location of STP, compost system, underground sewer line.
 - ii. Pipe Line conveying the treated effluent for green belt development.
 - iii. Pipe Line conveying the treated effluent for toilet flushing
 - iv. Water supply pipeline
 - v. Gas supply pipe line, if proposed
 - vi. Telephone cable
 - vii. Power cable
 - viii. Strom water drains, and
 - ix. Rain water harvesting system, etc.,. and it shall be made available to the owners

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- 13. A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.
- 14. The structural design of the proposed building must be vetted by premier academic institutions like Anna University, IIT Madras, etc., and the fact shall be informed to SEIAA.
- 15. There shall not be any threat to the biodiversity due to the proposed development.
- 16. The present land use surrounding the project site shall not be disturbed at any point of time.
- 17. The green belt area shall be planted with indigenous native trees.



- 18. Natural vegetation listed particularly the trees shall not be removed during the construction/operation phase. In case any trees are likely to be disturbed, shall be replanted.
- 19. During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.
- 20. The Provisions of Forest conservation Act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.
- 21. There should be Fire fighting plan and all required safety plan.
- 22. Regular fire drills should be held to create awareness among owners/ residents.

Part - C - Specific Conditions - Construction phase:

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

2. Labour Welfare:

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

3. Water Supply:

- i) The entire water requirement during construction phase may be met from ground water source from the source with approval of the PWD Department of water resources/ may be out sourced.
- ii) Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP,



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safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

- iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.
- iv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
- v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devises / sensor based control.

4. Solid Waste Management:

 The solid waste in the form of excavated earth excluding the top soil generated from the project activity shall be scientifically utilized for construction of approach roads and peripheral roads, as reported.

5. Top Soil Management:

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

6. Construction Debris disposal:

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

7. Diesel Generator sets:

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



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

8. Air & Noise Pollution Control:

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

9. Building material:

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



10. Storm Water Drainage:

i) Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.

11. Energy Conservation Measures:

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

12. Fire Safety:

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

13. Green Belt Development:

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



ii) The project proponent has to develop thick greeneries all round the project boundary in order to contain the noise levels.

14. Sewage Treatment Plant:

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

15. Rain Water Harvesting:

- i) The proponent/ Owner of the Flats shall ensure that roof rain water collected from the covered roof of the buildings, etc shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused.
- ii) Rain water harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc. The Proponent shall provide adequate number of bore wells / percolation pits/ etc. as committed. The bore wells / percolation pits/ etc. for rainwater recharging should be kept at least 5 mts. above the highest ground water table.

16. Building Safety:

- i) Lightning arrester shall be properly designed and installed at top of the building and where ever is necessary.
- ii) The operation of demolition of the existing building should be carried out only during day time with adequate measures to contain the noise and dust in a way that it does not affect the residents who are living very close (at about 20m from the project site).

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

- 1. There should be Fire fighting plan and all required safety plan.
- 2. Regular fire drills should be held to create awareness among owners/ residents.

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- 3. The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.
- 4. The EMP cost shall be printed in the Brochure / Pamphlet for the preparation of the sale of the property and should also mention the component involved.
- 5. The Project proponent shall get due permission from the wetland Authority before the commencement of the work.
- 6. The project activities should in no way disturb the manmade structures
- The Proponent shall do afforestation/ restoration programme contemplated to strengthen the open spaces shall preferably include native species along with the financial forecast for planting and maintenance for 5 years.
- "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
- 9. The ground water shall be drawn only after obtaining necessary permission from the Competent Authority.
- 10. Ground water quality to be checked for portability and if necessary RO plant shall be provided.
- 11. The Proponent should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in Environment Clearance (EC) order issued by the SEIAA-TN or the Proponent himself shall maintain all the above facilities for the entire period. The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.
- 12. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.
- 13. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP.

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- 14. The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
- 15. It is the sole responsibility of the proponent that the treated sewage water disposed for green belt development/ avenue plantation should not pollute the soil/ ground water/ adjacent canals/ lakes/ ponds, etc
- 16. Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.
- 17. The e waste generated should be collected and disposed to a nearby authorized e-waste centre as per E- waste (Management & Handling), Rules 2016.
- 18. Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.
- 19. The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
- 20. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other Wastes (Management & Transboundary Movement) Rules 2016. Spent oil from D.G sets should be disposed off through registered recyclers.
- 21. The proponent is required to provide a house hold hazardous waste /E-waste collection and disposal mechanism.
- 22. The proponent/ Owner of the Flats shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.
- 23. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- 24. A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with the allotment order / sale deed.
- 25. 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.



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26. The Environmental Clearance is issued based on the documents furnished by the project proponent. In case any documents found to be incorrect/not in order at a later date the Environmental Clearance issued to the project will be deemed to be revoked/ cancelled.



Copy to:

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

