



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

STATE LEVEL ENVIRONMENT IMPACT  
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**ENVIRONMENTAL CLEARANCE (EC)**

**Letter No. SEIAA-TN/F.No.8048/EC/8(a)/736/2021 dated: 11.01.2021**

To

M/s. Angammal Educational Trust,  
Chairman & Secretary,  
Elayampalayam, Tiruchengode,  
Namakkal District - 637 205.

Sir,

Sub: SEIAA, TN - Environmental Clearance - Proposal to utilize the existing building M/s. Vivekananda Educational Institutions as Hospital Building entitled "Swamy Vivekanandha Medical College Hospital and Research Institute" by M/s. Angammal Educational Trust at S.F.Nos: 130/2A1 & 130/2A2 of Unjanai Village, Tiruchengode Taluk, Namakkal District, Tamil Nadu - Issued - Regarding.

- Ref: 1. Online Proposal No. SIA/TN/MIS/183288/2020 dated 12.11.2020  
2. Your application for Environmental Clearance dated: 18.11.2020  
3. Minutes of the 187<sup>th</sup> SEAC meeting held on 27.11.2020  
4. Proponent reply dated 02.01.2021  
5. Minutes of the 417<sup>th</sup> SEIAA meeting held on 04.01.2021, 05.01.2021 & 06.01.2021

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This has reference to your application 2<sup>nd</sup> cited, the proposal is for obtaining Environmental Clearance to establish a Building and Construction projects under Category B2 of Schedule S.No. 8(a) in the Environment Impact Assessment Notification, 2006, as amended.



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

**Annexure 1**

<b>PROJECT DETAILS</b>		
<b>SL No</b>	<b>Description</b>	<b>Details</b>
1)	Name of the Project proponent and address	M/s. Angammal Educational Trust, Chairman & Secretary, Elayampalayam, Tiruchengode, Namakkal District - 637 205.
2)	Proposed Activity	Proposal to utilize the existing building M/s.Vivekananda Educational Institutions as Hospital Building entitled "Swamy Vivekanandha Medical College Hospital and Research Institute" by M/s.Angammal Educational Trust
3)	Schedule No.	8(a)
4)	<b>Project Location</b>	
	i)Survey No	S.F.Nos: 130/2A1 & 130/2A2
	ii)Revenue Village	Unjanai Village
	iii)Taluk	Tiruchengode
	iv)District	Namakkal
5)	Area of the Land	38,890 Sq.m
6)	Built up Area	27,462 Sq.m
7)	Brief description of the project	The existing building having Ground + Three Floors will be converted into hospital building and the proponent has proposed 300 bedded hospital with Hospital Building (G+3 floors) – 25,962 Sq.m, Other utilities (OWC Room, Security Room, Pump Room) – 1,500 Sq.m
8)	Expected Occupancies (including Visitors)	2,300 Nos.



  
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9)	Green Belt	6,050 Sq.m
10)	Parking facilities	5,788 Sq.m
11)	<b>UTILITIES-WATER</b>	
	Total Water Requirement	224 KLD
	a) Source from where the water is proposed to be drawn	TWAD Board
	i) Domestic Purposes (Fresh Water)	101 KLD
	ii) Lab & Operation theatre (Fresh Water)	12 KLD
	iii) Gardening (Recycled Water)	20 KLD
	iv) Flushing (Recycled Water)	73 KLD
	v) Lab & Operation theatre (Recycled Water)	18 KLD
12)	Waste Water	
	i)Sewage	Sewage Generation – 164 KLD Effluent Generation – 30 KLD
	ii) Details of Treatment	Sewage Treatment Plant – 185 KLD 1. Bar screen chamber 2. Equalization tank 3. Aeration tank 4. Settling tank 5. Clarified water tank 6. Pressure sand filter and Activated carbon filter 7. UF feed tank 8. Ultra filtration system 9. UV Disinfection system 10. Treated water tank



  
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PS: 11-1-2021

		11. Filter press 12. Sludge holding tank Effluent Treatment Plant – 35 KLD 1. Bar screen chamber 2. Disinfection tank 3. Equalization tank 4. Flocculation tank 5. Aeration tank 6. Settling tank 7. Clarified water tank 8. Pressure sand filter and Activated carbon filter 9. UF feed tank 10. Ultra filtration system 11. UV Disinfection system 12. RO feed tank 13. RO system 14. Treated water tank 15. Filter press 16. Sludge holding tank
	iii) Mode of Disposal with quantity	Treated Sewage : 156 KLD i. Flushing – 73 kLD ii. Greenbelt – 20 kLD iii. Avenue plantation – 63 KLD Treated Effluent : 30 KLD i. Lab & Operation Theatre – 18 KLD ii. Avenue plantation – 12 KLD
13)	<b>SOLID WASTE</b>	
	I) Municipal Solid Waste	749 Kg/day
	i) Bio degradable - 384 Kg/day	Organic Waste Converter
	ii) Non Bio degradable - 256	To local body



  
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	Kg/day	
	iii) STP sludge - 19 kg/day	Dried and used as manure for gardening
	iv) Bio Medical waste - 90 kg/day	To authorized CBMWTF
14)	<b>POWER REQUIREMENT</b>	
	i) Electricity Board	900 kVA from TANGEDCO
	ii) Details of DG set with capacity	2 Nos of 250 kVA & 1 no of 320 kVA
	iii) Air Pollution Control Measures (Stack)	15 m
15)	Project Cost	Rs. 31.94 Crores
16)	EMP Cost	<u>For Operation Phase:</u> Capital Cost – Rs. 108 Lakhs Operation cost – Rs. 42.4 Lakhs

#### Annexure 2 - Affidavit

The proponent has furnished affidavit in One Hundred Rupees stamp paper attested by the Notary stating that M/s. Angammal Educational Trust represented by its Chairman and Secretary Dr. M. Karunanithi proposes to establish a Hospital building at S.F.Nos. 130/2A1, 130/2A2, Unjanai Village, Tiruchengode Taluk, Namakkal District. An application submitted by us seeking Environmental Clearance under the EIA Notification, 2006 is under scrutiny in the Authority. We are furnishing the following undertaking to the Authority.

We commit to the SEIAA that the daily fresh water requirement to the tune of 113 KLD during the entire period of operation will be met from the TWAD Board / private tankers supply. The necessary permission will be obtained before obtaining CTO from TNPCB.

The total quantity of treated wastewater (Sewage & Effluent) to the tune of 186 KLD (Sewage 156 KLD and Effluent 30 KLD) will be recycled within the premises for toilet



  
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flushing (73 KLD) and gardening (20 KLD). The excess treated waste water will be used for Avenue Plantation (75 KLD). The necessary approval from local body for use of treated sewage for Avenue Plantation has been obtained vide Lr. No. 1/2020 Dated: 05.11.2020.

The solid waste generated from our project during operation is 640 Kg/day, in which 384 Kg/day is Bio-degradable waste, will be treated in the proposed Organic Waste Converter within the site, 256 Kg/day of Non-Bio degradable waste will be handed over to recyclers for scientific disposal and STP sludge (19 Kg/day) generated from the STP will be treated along with Biodegradable Waste after dewatering and drying. The bio-medical waste (90 kg/da) will be disposed through TNPCB authorized Common Biomedical Waste Treatment and Disposal Facility. Also, E-waste and Hazardous waste will be collected and handed over to TNPCB authorized recyclers. We shall dispose the solid waste as committed above without polluting the soil/ground water/adjacent canals/lakes/ponds etc.

We commit to the SEIAA that M/s. Angammal Educational Trust is liable for operation and maintenance of Sewage Treatment Plant (STP) , Effluent Treatment Plant (ETP), Air Pollution Control (APC) measures from the date of operation of the project.

We commit to the SEIAA that the storm water drain/trench will not carry any untreated (or) treated sewage/effluent generated from the project.

We commit to SEIAA that 2 % of project cost (i.e., Rs. 64 Lakhs) is earmarked for CER activities as prescribed under MoEF&CC's Office Memorandum dated 01<sup>st</sup> May 2018.

We commit to SEIAA that the enclosed photograph of the site of the project was taken on 21<sup>st</sup> day of November 2020. This photograph has been attested by us. It truly depicts the status of the site as on 21<sup>st</sup> day of November 2020.

We are aware that we can be prosecuted under relevant Act and Rules, if we do not adhere to the above commitment.

Commitment signed by me on 21<sup>st</sup> day of November 2020, as an Authorised signatory of the Project Proponent before the SEIAA, Tamil Nadu.



  
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**SEAC Recommendations:**

The proposal was placed in 187<sup>th</sup> SEAC Meeting held on 27.11.2020. Based on the presentation made by the proponent and the documents furnished, after detailed deliberations, 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

1. To obtain necessary permission from the competent authority/TWAD Board for the total water requirement for the proposed activity alone before obtaining consent from TNPCB.
2. The design of Effluent Treatment plant shall be revised based on the characterization of parameters referred from the secondary data source so that the treated effluent can be utilized for the gardening purpose as proposed. The same may be submitted before placing the subject to SEIAA.
3. The project proponent shall continuously operate and maintain the Sewage treatment plant & Effluent Treatment Plant to achieve the standards prescribed by the TNPCB/CPCB.
4. A detailed storm water drainage plan to be furnished to SEIAA along with layout to drain out the storm water coming from the upstream side without any hindrance by designing the storm water drainage arrangement including the main drains and sub-drains to avoid the future flood inundation in the project site. The same shall be prepared in accordance with the contour levels of the proposed project site and also considering the surrounding development.
5. The Project proponent shall submit the copy of the necessary approval/accreditation obtained from the AICTE/Anna University for the existing adjoined Engineering College to SEIAA to justify that the S F No130/2A1 & 130/2A2 were not reflected/utilized for other purposes before placing subject to SEIAA.
6. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Bio-medical Waste Management Rules, 2016, as amended for the generation of Bio medical waste within the premises.
7. The project proponent shall make necessary agreement with the Common Bio



  
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Medical Waste treatment Facility for disposal of the Bio-medical Waste generation from the site as per the Bio – Medical Management Rules, 2016, as amended.

8. The proponent shall develop the greenbelt as per the layout submitted with the details of earmarked greenbelt area along with dimension and GPS coordinate 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 as agreed. The proponent shall submit the revised layout accordingly before placing the subject to SEIAA.
9. The height of the stacks of DG sets shall be provided as per the CPCB norms.
10. 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.
11. 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.
12. No waste of any type to be disposed off in any other way other than the approved one.
13. The Proponent shall provide the dispenser for the disposal of Sanitary Napkins
14. 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.
15. 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.
16. 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 activities as proposed in the CER and furnish the same before placing the subject to SEIAA.



  
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The proponent has submitted the following reply to SEIAA and the affidavit vide letter dated 02.01.2021.

1. The detailed design of the proposed ETP is enclosed and designed based on the secondary data collected from a similar project comprising a Medical College Hospital and Research Institute.
2. The storm water drainage plan is proposed as per the Rain Water Harvesting and Conservation Manual published by CPWD, GOI considering the annual rainfall of 600 mm in the Namakkal region. For the design of storm water drain, 100 % runoff is used.
3. From the documents furnished, it is clearly depicts that the S F Nos 130/2A1 & 130/2A2 were not utilized for any other purposes and is not a part of any other academic institutions.
4. 2% of the project cost is allotted for CER activity.
5. The copy of affidavit in Rs.100/- stamp paper with notary for the commitment of the water requirements, operation of the STP & ETP, Collection and disposal of Solid waste, Bio Medical Waste, E-Waste, Hazardous waste, APC measures, flood management, CER activities is enclosed by the proponent.
6. The layout showing the greenbelt area earmarked for 16% of plot area with dimension and GPS coordinate all along the boundary of the project site is enclosed by the proponent and they agreed that the same will be included in the layout plan to be submitted for DTCP approval.

#### **SEIAA Recommendations:**

The proposal was placed in the 417<sup>th</sup> Authority meeting held on 04.01.2021, after detailed discussion the Authority unanimously accept 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.

1. The proponent shall ensure that the treated sewage and the trade effluent should not be disposed directly or indirectly to the nearby water bodies.
2. 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 to TNPCB, mentioning CER activities for Rs.64 lakhs to be carried out for drinking water



  
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facilities for Government School and to provide solar lighting facilities in the Unjanai village. The CER activities shall be carried out before obtaining CTO from TNPCB.

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

Part - B – Specific Conditions – Pre construction phase

Part - C – Specific Conditions – Construction phase

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

**Validity:**

**The SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> 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 lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
2. The construction of STP, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.
3. The Environmental safeguards contained in the application of the proponent /mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.
4. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone



  
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Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.

5. The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.
6. A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.
7. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
8. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
9. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
10. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
11. The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law, including the Hon'ble National Green Tribunal relating to the subject matter.



12. The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
13. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.
15. The SEIAA, TN may cancel the Environmental Clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or 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.



  
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20. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.
21. The EMP cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
22. The Project Proponent has to provide 25 nos of percolation pits & rain water collection sump with capacity of 115 cu.m. to recover and reuse the rain water during normal rains as reported.
23. The project activity should not cause any disturbance & deterioration of the local bio diversity.
24. The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.
25. All the assessed flora & fauna should be conserved and protected.
26. 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.
27. Necessary permission shall be obtained from the competent authority for the drawl / outsourcing of fresh water before obtaining consent from TNPCB.
28. The proponent shall appoint an Environmental Engineer with necessary qualification for the operation and maintenance of STP (Sewage Treatment Plant).
29. The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.
30. All the mitigation measures committed by the proponent for the flood management, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
31. No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.



  
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32. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.
33. The safety measures proposed in the report should be strictly followed.

**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.



  
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11. The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.
12. The project proponent shall ensure the entry of basement shall be above maximum flood level.
13. The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details
  - i. Location of STP, compost system, underground sewer line.
  - ii. Pipe Line conveying the treated effluent for green belt development.
  - iii. Pipe Line conveying the treated effluent for toilet flushing
  - iv. Water supply pipeline
  - v. Gas supply pipe line, if proposed
  - vi. Telephone cable
  - vii. Power cable
  - viii. Storm water drains, and
  - ix. Rain water harvesting system, etc., and it shall be made available to the owners
14. A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.
15. The present land use surrounding the project site shall not be disturbed at any point of time.
16. The green belt area shall be planted with indigenous native trees.
17. Natural vegetation listed particularly the trees shall not be removed during the construction/operation phase. In case any trees are likely to be disturbed, shall be replanted.
18. During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.
19. The Provisions of Forest conservation Act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.
20. There should be Fire fighting plan and all required safety plan.
21. Regular fire drills should be held to create awareness among owners/ residents.



  
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**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, 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



  
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water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.

- iv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
- v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.

#### 4. Solid Waste Management:

- i) In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be co-composted with biodegradables.
- ii) House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM Rules 2016.
- iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.
- iv) No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.
- v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.

#### 5. Top Soil Management:

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

#### 6. Construction Debris disposal:

- i) Disposal of construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people. The construction and demolition waste shall be



  
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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



  
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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 project proponent should ensure that adequate Air Pollution Control measures shall be provided from buses and other vehicles, which will be entering the bus terminal. Further, water sprinkling system shall be provided and same shall be used at regular interval to control the dust emission within the project site.

**9. Building material:**

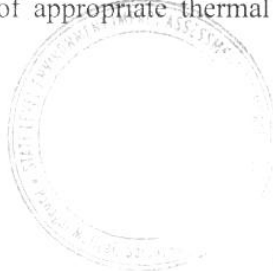
- i) Fly-ash blocks should be used as building material in the construction as per the provision of Fly ash Notification of September, 1999 and amended as on 27th August, 2003 and Notification No. S.O. 2807 (E) dated: 03.11.2009.
- ii) Ready-mix concrete shall alone be used in building construction and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

**10. Storm Water Drainage:**

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

**11. Energy Conservation Measures:**

- i) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill the requirement.
- ii) Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.



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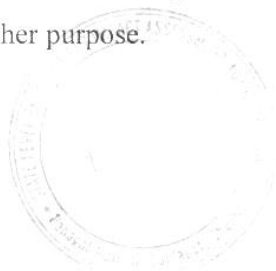
- iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.
- iv) Application of solar energy should be incorporated for illumination of common areas, lighting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

**12. Fire Safety:**

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

**13. Green Belt Development:**

- i) The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is completed.
- ii) The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area all along the boundary of the project site with at least 3 meter wide and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval.
- iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.



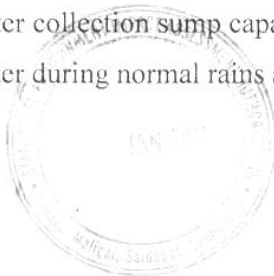
  
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**14. Sewage Treatment Plant:**

- i) The Sewage Treatment Plant (STP) installed should be certified by an independent expert/ reputed Academic institutions for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Explore the less power consuming systems viz baffle reactor, etc., for the treatment of sewage.
- ii) The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.
- iii) The project proponent shall operate and maintain the Sewage treatment Plant and grey water treatment plant effectively to meet out the standards prescribed by the CPCB.
- iv) The project proponent shall continuously operate and maintain the Sewage treatment plant and Grey water treatment plant to achieve the standards prescribed by the CPCB.
- v) The project proponent has to ensure the complete recycling of treated sewage & Grey water after achieving the standards prescribed by the CPCB.
- vi) The project proponent has to provide separate standby D.G set for the STP for the continuous operation of the STP in case of power failure.

**15. Rain Water Harvesting:**

- i) The proponent/ Owner of the Flats shall ensure that roof rain water collected from the covered roof of the buildings, etc shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused.
- ii) Rain water harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc.
- iii) The Project Proponent has to provide 25 Nos of percolation pits with rain water collection sump capacity of 115 cu.m to recover and reuse the rain water during normal rains as reported.



  
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- iv) The project activity should not cause any disturbance & deterioration of the local bio diversity.

**16. Building Safety:**

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

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

1. There should be Fire fighting plan and all required safety plan.
2. Regular fire drills should be held to create awareness among owners/ residents.
3. House hold hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM Rules 2016.
4. The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.
5. Solar energy saving shall be increased to atleast 10% of total energy utilization.
6. The Project proponent has to spend the CER as committed in the affidavit. The above activity shall be carried out before obtaining CTO from TNPCB.
7. 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
8. 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.
9. The Project proponent shall get due permission from the wetland Authority before the commencement of the work, if applicable.
10. The Project proponent should discuss with the wet land Authority, Tamil Nadu Forest Department, PWD and support lake restoration cum improvement, awareness and conservation programs.
11. The project activities should in no way disturb the manmade structures.
12. 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.



  
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13. "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.
14. Raw water quality to be checked for portability and if necessary RO plant shall be provided.
15. 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.
16. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.
17. 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.
18. The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
19. 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
20. Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.



  
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21. The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per E- waste (Management & Handling), Rules 2016 as amended.
22. Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.
23. The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
24. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other Wastes (Management & Transboundary Movement) Rules 2016. Spent oil from D.G sets should be disposed off through registered recyclers.
25. The proponent is required to provide a house hold hazardous waste / E-waste collection and disposal mechanism.
26. The proponent/ Owner of the Flats shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.
27. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
28. A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with the allotment order / sale deed.
29. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
30. 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.



  
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**Copy to:**

1. The Additional Chief 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 - 110 032.
3. The Member Secretary, Tamil Nadu Pollution Control Board,  
76, Mount Salai, Guindy, Chennai - 600 032.
4. The APCCF (C), Regional Office, Ministry of Environment & Forest (SZ),  
34, HEPC Building, 1<sup>st</sup> & 2<sup>nd</sup> Floor, Cathedral Garden Road, Nungambakkam,  
Chennai - 34.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests,  
Paryavaran Bhavan, CGO Complex, New Delhi - 110 003.
6. The Block Development Officer, Elachipalayam.
7. Stock File.

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