



THIRU A.UDHAYAN,I.F.S
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT
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ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA/TN/1104/2013/EC/8(a)/612/2018 dated: 10.08.2018

To,

The Vice President,
Adhiparasakthi Charitable Medical, Educational and Cultural Trust,
Melmaruvathur,
Kancheepuram District.

Sir,

Sub: SEIAA, TN - Environmental Clearance under violation notification - Medical College Campus at Old Survey Nos. 68/1, New Survey Nos. 68/1, 68/3, 68/4, 68/5, 68/6, 68/7, 68/8, 68/9, 68/10 & 68/11 in Kesavarayanpettai Village, Cheyyur Taluk, Kancheepuram District, Tamil Nadu - Category – "B2" and Schedule S. No. 8(a) - Issued - Regarding.

- Ref: 1. Your application for Environmental Clearance dated: 24.04.2013.
2. MoEF&CC Notification dated 14.03.2017 (Violation Notification)
3. Application submitted to MoEF & CC, New Delhi (under violation) dated 01.08.2017.
4. Application transferred to SEIAA-TN from MoEF & CC dated: 28.03.2018.
5. Minutes of the 107th SEAC meeting held on 11.04.2018.
6. Minutes of the 111th SEAC meeting held on 15.05.2018.
7. Minutes of the 301st SEIAA meeting held on 17.05.2018.




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8. ToR issued by SEIAA – TN vide letter No. SEIAA- TN/F. No 1104/SEAC – CXI/ Violation /ToR – 354/2018 dated 17.05.2018.
9. EIA Report submitted to SEIAA - TN 07.07.2018.
10. Minutes of 117th SEAC Meeting held on 27.07.2018.
11. Minutes of 329th SEIAA Meeting held on 06.08.2018.
12. Letter No. SEIAA-TN/F.1104/2010 dated.06.08.2018.
13. Proponent Reply dated. 10.08.2018
14. Minutes of the 332nd SEIAA Meeting held on 10.08.2018.

1.0 This has reference to your application 4th cited, wherein you have submitted proposal for obtaining Environmental Clearance for Construction of Medical College Campus under Category B2 and Schedule S.No. 8(a) under the Environment Impact Assessment Notification, 2006, and the notification S.O.1030 (E) dated 08.03.2018 as amended by the Ministry of Environment, Forests and Climate Change, Government of India, New Delhi.

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

2.0 Project Details

PROJECT DETAILS		Details
Sl. No	Description	
1)	Name of the Project proponent and address	M/s. Adhiparasakthi Charitable Medical, Educational and Cultural Trust, Melmaruvathur, Kancheepuram District.
2)	Proposed Activity	Medical College Campus
3)	Schedule No.	8(a)
4)	Project Location	
	i) Survey No	Old Survey Nos. 68/1, New Survey Nos. 68/1, 68/3, 68/4, 68/5, 68/6, 68/7, 68/8, 68/9, 68/10 & 68/11



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	ii)Revenue Village	Kesavarayanpettai Village
	iii)Taluk	Cheyyur Taluk
	iv)District	Kancheepuram District
5)	Area of the Land	3,46,350Sq.m
6)	Built up Area	1,33,097Sq.m
7)	Brief description of the project	Medical College Campus with Hospital, Nursing College, Pharmacy College, Physiotherapy College, Hostel Buildings and utilities include Animal House, Substation, Laundry, Transformer Room , Mortuary Room, Chiller Plant, EB Room, STP, WTP & ETP.
8)	Expected Occupancies	6,711 Nos.
9)	Parking facilities	19,775 Sq.m
10)	Green Belt	51,955 Sq.m
11)	UTILITIES-WATER	
	Total Fresh Water Requirements	522 KLD
	a)Source from where the water is proposed to be drawn	Local Body/Tanker Supply
	i)Domestic Purposes	350 KLD
	ii) Lab & Operation Theatre	14 KLD
	iii) HVAC Use (Fresh Water)	158 KLD
	iii) Laundry (Recycled Effluent)	23 KLD
	iv)Toilet Flushing (Treated Sewage)	305 KLD
	v)Green belt development in project site & OSR (Treated Sewage)	303 KLD
	vi)HVAC Use (Treated Sewage)	14 KLD



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12)	Waste Water	
	i) Sewage	655 KLD
	ii) Details of Treatment	STP - 3000 KLD Capacity
	iii) Treated Sewage	622 KLD
	iv) Mode of Disposal with quantity	Toilet Flushing - 305 KLD, Green belt development in project site & OSR - 303 KLD, HVAC use - 14 KLD
	v) Effluent	37 KLD
	vi) Details of Treatment	ETP Capacity: 40 KLD
	vii) Treated Effluent	RO Permeate 23 KLD & RO Reject 14 KLD
13)	SOLID WASTE	
	i) Municipal solid Waste	2,670 Kg/day
	i) Bio degradable - 1,416 Kg/day	Treated in Organic Waste Converter and manure used for greenbelt development
	ii) STP Sludge - 70 Kg/day	Dried and used as manure for greenbelt development.
	iii) Non Bio degradable - 1,184 Kg/day	Disposed through Local body
	ii) Bio Medical Waste - 362 Kg/day	Sent to TNPCB authorized Biomedical Waste Treatment & Disposal Facility
14)	POWER REQUIREMENT	
	i) Tamil Nadu Generation and Distribution Corporation (TANGEDCO)	3500 KVA
	ii) D.G. Set	750 KVA - 1 No, 320 kVA - 2 Nos. and



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		250 KVA - 1 No.
	iii) Height of Stack above the tallest Building	Stack height of 16 m from Ground Level
15)	Project Cost	Rs. 247.8 Crores
16)	EMP Cost	Rs. 526 Lakhs

3.0 Content of the Affidavit submitted by the Project Proponent

1. We commit to the SEIAA that the daily fresh water requirement to the tune of 522 KLD during the entire period of operation for the Medical College Campus project will be met from the Local Body/ Tanker Supply.
2. The total quantity of treated sewage to the tune of 622 KLD is recycled for Toilet flushing, Green belt development in project site & OSR, HVAC use within the premises.
3. The solid waste generated from our project during operation (i.e., 2,670 kg/day), where 1,416Kg/day is Bio-degradable waste, will be treated in the Organic Waste Converter (OWC) within the site and 1,184Kg/day of Non-Bio degradable waste will be handed over to recyclers for scientific disposal. STP sludge (70 Kg/day) generated from the STP will be used as manure for garden. The Biomedical waste generated for our project to the tune of 362 Kg/day will be sent to TNPCB authorized Biomedical Waste Treatment & Disposal Facility. We shall dispose the solid waste as committed above without polluting the soil/ground water/adjacent canals/lakes/ponds etc.
4. We commit to the SEIAA that project site in which the Medical College campus project covered in the Old Survey Nos. 68/1, New Survey Nos. 68/1, 68/3, 68/4, 68/5, 68/6, 68/7, 68/8, 68/9, 68/10 & 68/11 in Kesavarayanpettai Village, Cheyyur Taluk, Kancheepuram District in Tamil Nadu has the land extent of 3,46,350 Sq.m. The project site does not encroach nearby water bodies/reserve forest/wetlands.



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5. We commit to the SEIAA that Tamil Nadu M/s. Adhiparasakthi Charitable Medical, Educational and Cultural Trust is liable for operation and maintenance of Sewage Treatment Plant (STP).

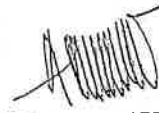
We hereby assure that if the above affirmation is proved as incorrect / wrong at a later date, we may be punished according to law.

4.0 Project Appraisal and Environment Clearance

- i. 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 III Stage (3) (i) (d) of EIA Notification, 2006 and also as per the Hon'ble High Court of Madras in W.M.P. No.3361, 3362 of 2018 in W.P.No.11189 of 2017 . Based on the application made in Form-1, Form-IA, Conceptual Plan, Annexures, and the additional clarifications furnished by the proponent, it was found from the photographs furnished by the proponent, which shows that the construction activity was started without prior Environmental Clearance. Hence it was considered as violation of EIA Notification, 2006.
- ii. As per the MoEF & CC Notification dated: 14.03.2017, stated that the cases of violation will be dealt strictly as per the procedures specified in the following manner

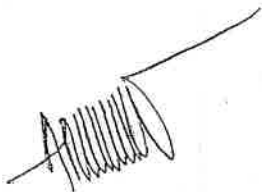
"In case the project or activities requiring prior EC under EIA Notification, 2006 from the concerned regulatory authority are brought for Environmental Clearance after starting the construction work or have undertaken expansion, modernization and change in product mix without prior EC, these projects shall be treated as cases of




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violations and in such cases, even Category B projects which are granted EC by the SEIAA shall be appraised for grant of EC only by the EAC and Environmental Clearance will be granted at Central level only". Accordingly, the proponent was addressed to submit the proposal to MoEF & CC for EC under violation category vide SEIAA letter dated: 19.06.2017.

- iii. Then, the proponent has filed the application to MoEF & CC under violation on 01.08.2017.
- iv. Subsequently, MoEF&CC issued another notification S.O.1030 (E) dated 08.03.2018, stating that "the cases of violations projects or activities covered under category IA of the Schedule to the EIA Notification, 2006, including expansion and modernization of existing projects or activities and change in product mix, shall be appraised for grant of Environmental Clearance by the EAC in the Ministry and the Environmental Clearance shall be granted at Central level, and for category B projects, the appraisal and approval thereof shall vest with the State or Union territory level Expert Appraisal Committees and State or Union territory Environment Impact Assessment Authorities in different States and Union territories, constituted under sub-section (3) of section 3 of the Environment (Protection) Act, 1986".
- v. The application was transferred from MoEF & CC to SEIAA-TN dated 28.03.2018.


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- vi. The proposal for ToR was placed in the 107th SEAC meeting held on 11.04.2018.
- vii. The inspection by the technical team of SEAC to the project site was carried out and accordingly the inspection report was submitted to 111th SEAC on 15.05.2018
- viii. The inspection report was placed in the 111th SEAC meeting held on 15.05.2018
- ix. The Proponent was accorded ToR by SEIAA-TN vide letter No. SEIAA-TN/F. No 1104/SEAC - CXI/ Violation /ToR - 354/2018 dated 17.05.2018.
- x. The proponent submitted the EIA report to SEIAA-TN dated: 07.07.2018 for the consideration of EC under violation notification.
- xi. The EIA Report was placed in the 117th SEAC meeting held on 27.07.2018. The SEAC as per the MoEF & CC notification assessed the project based on Ecological damage, remediation plan and natural & community resource augmentation plan furnished as an independent chapter in the Environment Impact assessment report by the proponent.
- xii. Based on the inspection report and the violation notification, the SEAC classified the level of damages by the following criteria:
 - a. Low level Ecological damage:
 - i. Only procedural violations (started the construction at site without obtaining EC)
 - b. Medium level Ecological damage:
 - i. Procedural violations (started the construction at site without obtaining EC)




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- ii. Infrastructural violation such as deviation from CMDA/local body approval.
- iii. Non operation of the project (not occupied).
- c. High level Ecological damage:
 - i. Procedural violations (started the construction at site without obtaining EC)
 - ii. Infrastructural violation such as deviation from CMDA/local body approval.
 - iii. Under Operation (occupied).
- xiii. The Committee observes that the project of "M/s. Adhiparasakthi Charitable Medical, Educational and Cultural Trust" at Old S.F.No. 68/1, New S.F.No. 68/1, 68/3, 68/4, 68/5, 68/6, 68/7, 68/8, 68/9, 68/10 & 68/11 of Kesavarayanpettai Village, Cheyyur Taluk, Kancheepuram District, Tamil Nadu comes under the "Low Level Ecological damage category". The Committee decided to recommend the proposal to SEIAA for grant of post construction EC subject to the following conditions in addition to the normal conditions:
 1. The amount prescribed for Ecological remediation (Rs. 61.95 lakhs), natural resource augmentation (Rs. 24.78 lakhs) & community resource augmentation (Rs. 37.17 lakhs), totalling Rs. 123.9 lakhs shall be remitted in the form of bank guarantee to Tamil Nadu Pollution Control board, before obtaining Environmental Clearance and submit the acknowledgement of the same to SEIAA-TN. The funds should be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/VEMP report.




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2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of six months. If not the bank guarantee will be forfeited to TNPCB without further notice.
- xiv. The Authority considered the proposal in SEIAA meeting held on 10.08.2018 and decided to issue Environment Clearance to the project. Considering the site conditions and status of the project, the Pre-Construction phase condition and construction phase condition has not been included as the same has already been complied for this project, as per the inspection report. The observation and recommendations of the SEAC is incorporated in the respective phases.

Part A: Common conditions applicable for Pre-Operation and Operational Phases

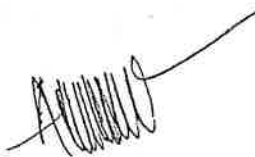
Part B: Conditions for Pre-Operation Phase

Part C: Conditions for Operation 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:





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Part - A – Common conditions applicable for Pre-Operation 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 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.
3. 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.
4. 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.
5. A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.
6. 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.




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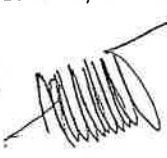
7. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
8. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
9. 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.
10. The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
11. 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.
12. 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, PM_{2.5}, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.
13. The project proponent shall submit progress reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the




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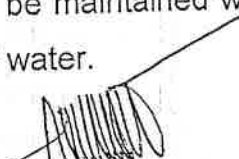
- Ministry of Environment and Forests, its Regional Office Chennai, the respective Zonal Office of Central Pollution Control Board, SEIAA, TN and the State Pollution Control Board once in six months.
14. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions 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.
 15. 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.
 16. 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.
 17. 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.
 18. The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.
 19. 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.
 20. The proponent shall install piezo wells to monitor the water table and ground water quality quarterly.
 21. The surface run off shall be given pre-treatment to remove the sustainable solids, oil and grease, etc. by installing screen, settlers and other such units before using for recharge.




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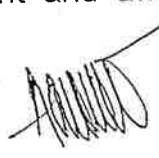
22. Provision of proper drainage system need to be made in and around the premises for effective collection of storm water runoff and its disposal.
23. The STP constructed should have adequate ventilation to avoid accumulation of gases such as Methane and Hydrogen Sulphide (H₂S), while ensuring adequate head space for safe and easy access to the units for easy maintenance and replacement of damaged equipment / accessories.
24. The project proponent should provide separate electricity meter for the sewage treatment plants and maintain daily record of the power consumed, essential to ensure 24X7 functioning of STP.
25. The online system shall installed to monitor the effluent quality at least for the basic parameters, such as pH, suspended solids and BOD for self-monitoring and self-regulations besides ensuring compliance of the norms. The data will be transferred directly from the analyzers.
26. 100% recycling of treated sewage to be ensured where the sewage is treated to bathing water quality.
27. The project proponent should develop in-house laboratory for monitoring of the operating parameters of the sewage treatment plants and the treated effluent quality daily.
28. The performance monitoring of STP shall be done atleast once in a year to access the compliance status and its operational efficacy.
29. The Regular inspection of the STP be undertaken to ensure compliance of the effluent quantity norms and safe disposal of the treated sewage.
30. Colour coding of pipelines in the STP should be done.
31. All the plumbing lines carrying raw water, untreated sewage/treated sewage etc. should be colour coded.
32. The proponent should ensure that proper storm water drainage system is available in and around the site for transporting excess of storm water runoff to drains, thereby discarding possibility of flooding in and around the site.
33. The inlet and outlet point of natural drain system should be maintained with adequate size of channel for ensuring unrestricted flow of water.




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34. The project proponent should ensure that such situation does not occur either by increasing the capacity of rain water storage sumps or providing additional pits in the surface run off collection drain. The surface runoff shall be treated through screens, settlers, etc., to remove suspended solids, oil & grease etc., before its use for recharging.
35. The proponent should furnish the storm water management plan which includes mode of discharge of excess storm water. For rain water harvesting the proponent is directed to provide storage sumps of capacity 12400 cu.m.
36. Certificate for structural safety from Stability certificate should be obtained from reputed institutions like Anna University, IIT, NIT, Central Universities, Government Engineering colleges, PWD & Structural Engineering Research Centre of Government of India before obtaining CTO from TNPCB.
37. The proponent should provide OWC before obtaining CTO from TNPCB and maintain the same.
38. The proponent should treat the effluent generated from the laboratories, operation theatres and laundries separately and provide the dedicated ETP with separate RO system for the same. The ETP treated effluent should be reused back in the hospital for laundry purposes after ensuring no pathogens present in the treated effluent (RO Permeate). RO reject shall be disposed into elevated solar evaporation pan with adequate size before obtaining CTO from TNPCB.
39. The EMP cost of Rs. 526 Lakhs 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.
40. The project proponent has to provide rain water collection tank of 12400 cu.m capacity in order to recover and reuse the rain water during normal rains in addition to other structure proposed for rain water harvesting.
41. The NCC, NSS, Green Corps students should be involved creation of water bodies and conservation of the Natural water sources within the campus
42. The students should be involved in species assessment and awareness created on ecology of the campus.




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43. The area earmarked for green belt for utilization of treated sewage shall not be less than 12 Ha and shall not be altered at any point of time for any other purpose.

44. The project proponent shall prepare a best management procedure for disposal of treated sewage in order to abate soil and ground water pollution.

Part B- Conditions for Pre Operation phase:

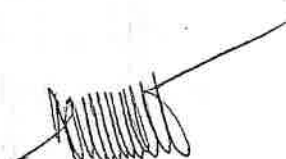
1. Rain Water Harvesting

- i. The rain water harvested should be stored in a tank for reuse in household through a provision of separate water tank and pipeline to avoid mixing with potable municipal water supply. The excess rainwater harvested to link to the recharge bores in the premise through a pipeline after filtering arrangement of the rain water.

2. Green Belt Development

- ii. The Project proponent should plan for scientific green belt development (exceptions are there for the landscape area or some places earmarked for plantation of trees). Maximum possible space should be left unpaved for recharging of ground water besides the proposed rain water harvesting system. The unpaved area should be covered with green top or any other pervious material to maintain permeability of soil.
- iii. Green belt should be developed all around the site boundary to act as a barrier for air and noise pollution. Ornamental plants / area left for landscape, covered with grass / shrubs and roof top garden shall not be considered in the areas mandatory for green belt development. Sufficient space has to be provided for each tree so that it does not choke to death because of putting of cement concrete all around the tree.
- iv. The project proponent shall plant maintain 1 tree for every 80 m² of land and ensure compensatory plantation in the ratio of 1:3 (i.e. Planting of 3 trees for every 01 tree that is cut) as per draft EIA Notification of 29th April 2016.




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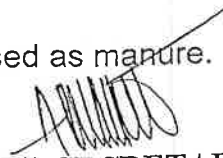
- v. The proponent should plant following trees to ensure the total green belt area is not less than 51952.5 sq.m.
- i. Legerstromea speciosa
 - ii. Calophyllum inophyllum
 - iii. Mimsops elangi
 - iv. Thespesia populnea
 - v. Azadirachta indica
 - vi. Pongamia pinnata
 - vii. Syzygium cumini
 - viii. Terminalia Arjuna
 - ix. Terminalia Bellerica
 - x. Alstonia Scholaris
 - xi. Ficus glomerata
 - xii. Ficus Religiosa

As per norms, 4329 trees should have been planted. That means there is a deficit of 3127 trees yet to be planted. Out of 1202 planted already, around 400 trees should be replaced with approved species. That means, totally $3127 + 400 = 3527$ trees should be planted immediately

3. Solid Waste Management

- vi. The project proponent should prepare an action plan for ensuring segregation, collection, transportation, treatment and disposal of Municipal Solid Waste. This action plan should be submitted to SEIAA and TNPCB for their approval.
- vii. Separate wet and dry bins must be provided at ground level for facilitating segregation of waste.
- viii. The project proponent should put in place a system for collection of discarded CFL & LED lamp.
- ix. The proponent should submit a plan for management of grit and STP sludge.
- x. The leaves/biomass should be composted at site and used as manure.




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- xi. The vehicles transporting construction material should be covered to control suspension of dust.
- xii. Separate wet and dry bins must be provided at the ground level for facilitating segregation of waste.
- xiii. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- xiv. The project proponent shall make adequate provision for compliance with the provision of Solid Waste Management Rules 2016, with respect to segregation, collection, transportation, treatment and disposal of waste.
- xv. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

4. Traffic Management

- i. Once the campus is occupied, there is all possibility of traffic snarls around. The project proponent needs to submit an action plan to avoid congestion on the road and increased concentration of air pollutants.
- ii. The project proponent should ensure regular sweeping of the roads inside and adjacent to the complex to avoid re-suspension of settled dust, thereby taking care of any possibility of increasing particulate matter levels.
- iii. Car parking requirement for development is based on the size of the individual project and location of the site. In addition, 10% of total parking is required to be provided as visitors parking.

5. Energy Saving

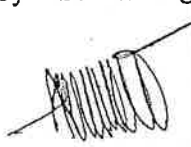
- i. All common and staircase lighting should use solar power. The project proponent should reduce the power consumption by at least 20% by replacing CFL lamps with LED lamps, using energy efficient device (solar relay – Bureau of energy efficiency) providing insulated window or insulated glasses and adopting advance elevator and air conditioning technologies as below:



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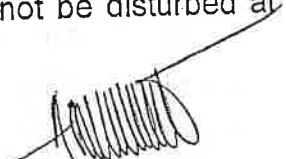
- ii. Install Energy efficient elevators using gearless machines or regenerative drive technology.
- iii. Inverter technology based Air Conditioning machines should be installed.
- iv. Installation of IR/Thermal switches in corridors/staircases to save energy needs to be promoted.
- v. The project should obtain GRIHA or any other such rating.
- vi. Energy rating instruments like fans, lights etc., shall be used.
- vii. At least 1% of connected applied load generated from renewable energy source such as photovoltaic cells or wind mills or hybrid be provided.
6. The proponent shall ensure that the movement of people in the STP area is safe from head injuries. The proponent should take proper precautionary measures to ensure that there are no seepages from outside ground water into the STP and there is no leakage from STP to outside ground water.
7. The Odour and noise from the STP should be properly controlled.
8. 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.
9. 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.
10. 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.
11. "Consent to Operate" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
12. The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of firefighting




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- equipment's, etc as per National Building Code including protection measures from lightning etc.
13. Design of buildings should be in conformity with the Seismic Zone Classifications.
 14. The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
 15. No construction activity of any kind shall be taken up in the OSR area.
 16. 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.
 17. The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.
 18. 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
 19. A First Aid Room shall be provided in the project site during the entire operation phases of the project.
 20. There shall not be any threat to the biodiversity due to the proposed development.
 21. The present land use surrounding the project site shall not be disturbed at any point of time.

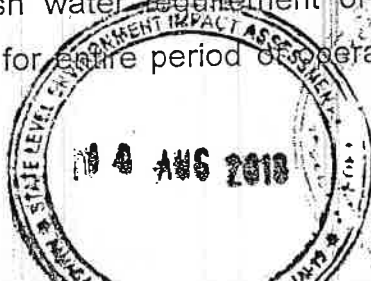



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22. The existing land use shall not be altered due to the project and shall be consistent with the surroundings.
23. The green belt area shall be planted with indigenous native trees.
24. Natural vegetation listed particularly the trees shall not be removed during the operation phase. In case any trees are likely to be disturbed, shall be replanted.
25. During the operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.
26. The Project Proponent shall maintain 10 nos of car parking facility exclusively for visitors, as committed and it shall be displayed.
27. There should be Fire fighting plan and all required safety plan.
28. Vertical plant and tree cover/ gardening should be established to tide over rising temperatures and wind velocity as per structural engineering.
29. The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.
30. 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.
31. A disaster management plan should be in place in case of emergency.
32. The Building activity should not be impair the movement of migratory birds.

Part C- Conditions for Operation Phase/Entire Life of the Project:

- i. The Project Proponent shall ensure compliance of EC conditions related to pre-operational phase before the facility is handed over for occupancy and shall report to SEIAA, verified by Regional Office, MoEF& CC, Chennai.
- ii. The EMP cost shall be deposited in a Nationalised bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
- iii. The daily fresh water requirement of 522 KLD shall be met from local body/Tankers for entire period of operation after obtaining permission from




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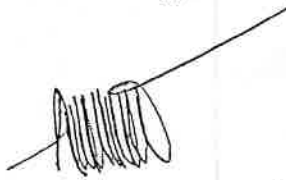
- the competent authority before commissioning the project (or) before obtaining completion certificate from the competent authority, whichever is earlier as committed.
- iv. The entire water requirement during operation phase may be met from ground water source from the source with approval of the PWD Department of water resources/ may be out sourced.
 - v. The ground water shall be drawn only after obtaining necessary permission from the Competent Authority Ground water quality to be checked for portability and if necessary RO plant shall be provided.
 - vi. 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 ready for occupation.
 - vii. 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.
 - viii. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.
 - ix. Green belt should not be concretised at any cost and all the footpaths, cycle tracks etc., within it, if constructed, should be free from any concretisation to permit infiltration/percolation of water into the ground.
 - x. The drinking water which is proposed to be from the water supply from the Chennai Metropolitan Water Supply and Sewage Board should be treated to meet the drinking water standards.
 - xi. In case there is any default on part of the project proponent, the Environmental Clearance granted shall be liable to be withdrawn/cancelled and the project proponent would be liable to pay environmental compensation, as well as, face all other proceedings including disobedience of the orders of the Tribunal, in accordance with law.
 - xii. The project proponent shall strictly adhere and comply to the above additional conditions and other previous conditions and report the fact to




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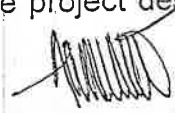
- SEIAA – TN on a fortnightly basis for placing the report to SEAC for verification and compliance.
- xiii. Treated sewage emanating from STP shall be recycled / reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP.
 - xiv. The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
 - xv. 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.
 - xvi. Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.
 - xvii. The implementation of Environmental Management Plan in regard operation and maintenance of STP, reuse and disposal of untreated sewage and effluent from swimming pool, Solid waste Management, and CSR Activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phase.
 - xviii. It is proposed to use organic waste convertor for managing the municipal solid waste (Organic components). Care should be taken to operate and maintain the OWC such a way that there is no problem to the nearby residents.
 - xix. The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.
 - xx. The chemicals used for swimming pool shall be stored in a separate closed shed and the spillages shall be disposed scientifically.
 - xxi. The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per E- waste (Management & Handling), Rules 2016.




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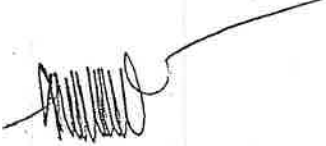
- xxii. Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986.
- xxiii. The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
- xxiv. 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.
- xxv. The proponent 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.
- xxvi. The proponent 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.
- xxvii. 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.
- xxviii. 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.
- xxix. 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.
- xxx. Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be an integral part of the project design and




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should be in place before project commissioning. 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. Use of solar panels may be done to the extent possible.

- xxxi. 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 DTCP norms. The traffic department shall be consulted and any cost effective traffic regulative facility shall be met before commissioning.
- xxxii. A First Aid Room shall be provided during operation of the project, with necessary equipments and life-saving medicines and should be manned all the 24 hours any day.
- xxxiii. The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.
- xxxiv. 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.
- xxxv. A copy of the Environmental clearance (EC) letter shall be made available to all the allottees along with the allotment order-/ sale deed.
- xxxvi. 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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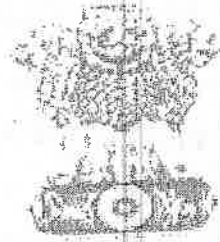
Copy to:

1. The Principal 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 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 BDO, Melmaruvathur Village Panchayat, Cheyyur Taluk,
Kancheepuram District.
7. Stock File.



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