

**DEPARTMENT OF SCIENCE, TECHNOLOGY & ENVIRONMENT (DSTE), GOP  
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)**

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**MINUTES OF THE 18<sup>TH</sup> MEETING OF SEIAA HELD ON 29.08.2018 AT 4.00 P.M.  
IN THE CHAMBER OF THE DIRECTOR / MS (SEIAA)**

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Members Present:

1. Dr. G. Srinivasan, - Chairman  
Professor, Department of Chemical Engineering,  
Pondicherry Engineering College,  
Puducherry – 14.
2. Dr. T. Ganesan, - Member  
Associate Professor, Dept. of Botany,  
Tagore Arts College,  
Puducherry – 8.
3. Mrs. Smitha. R, - Member Secretary  
Director,  
Department of Science, Technology & Environment,  
Puducherry – 5.

**Agenda Item No. 1: Confirmation of Minutes of the 17<sup>th</sup> meeting of SEIAA convened on 01.02.2017:**

The Authority confirmed the minutes of the previous meeting.

**Agenda Item No. 2: : Examination of Project proposals under the provisions of the EIA Notification, 2006 and its subsequent amendments for onward appraisal to the SEIAA for further examination to consider issue of Terms of Reference (TOR):**

**1. Proposal for Terms of Reference submitted by M/s. Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry for additional construction of Hospital Building:**

The Authority noted that this case was discussed in the 22<sup>nd</sup> SEAC meeting held on 25.06.2018 and the SEAC had confirmed the case to be of violation of the EIA Notification, 2006 as the construction was already completed without obtaining Prior Environmental Clearance and resolved to recommend the proposal to SEIAA for issue of following specific Terms of Reference (TOR):

- i) The Puducherry Pollution Control Committee to take action against the project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986, and further no consent to operate or occupancy certificate to be issued till the project is granted EC.



- ii) Grant of Terms of Reference for undertaking EIA and preparation of Environment Management Plan (EMP) as enumerated in *Annexure I*.
- iii) Assessment of ecological damage, remediation plan and natural and community resource augmentation plan shall be prepared as an independent chapter in the environment impact assessment report by the accredited consultants. The collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986 or an environmental laboratory accredited by the National Accreditation Board.
- iv) EMP prepared for implementation shall comprise of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- v) The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the Puducherry Pollution Control Committee prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the remediation plan and natural and community augmentation plan and after the recommendation by SEAC and approval of the regulatory authority.
- vi) Fund allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/2017-IA.III dated 1st May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
- vii) Since the project site is within 10 kms of Ousteri Bird Sanctuary which is a notified wild life protected area, the project proponent shall apply for Wild Life Clearance from the Standing Committee of National Board for Wildlife.

After detailed discussion the SEIAA decided to issue the above Terms of Reference (TOR) recommended by SEAC for the project as per the Ministry of Environment, Forest and Climate Change Notification vide S.O. 804(E) dated 14.03.2017 and S.O. 1030(E) dated 08.03.2018. The Authority authorized the Member Secretary, SEIAA to issue the TOR for the above proposal.

**2. Proposal for Terms of Reference submitted by M/s. Aarupadai Veedu Medical College and Hospital, Puducherry for additional construction of Hospital Building:**

The Authority noted that this case was discussed in the 22<sup>nd</sup> SEAC meeting held on 25.06.2018 and the SEAC had confirmed the case to be of violation of the EIA Notification, 2006 as the construction was already commenced without obtaining Prior Environmental Clearance and resolved to recommend the proposal to SEIAA for issue of following specific Terms of Reference (TOR):

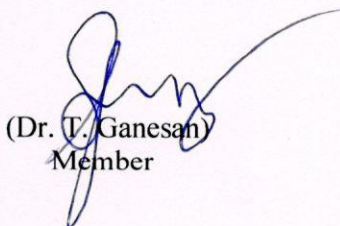






- (i) The Puducherry Pollution Control Committee to take action against the project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986, and further no consent to operate or occupancy certificate to be issued till the project is granted EC.
- (ii) Grant of Terms of Reference for undertaking EIA and preparation of Environment Management Plan (EMP) as enumerated in *Annexure I*.
- (iii) Assessment of ecological damage, remediation plan and natural and community resource augmentation plan shall be prepared as an independent chapter in the environment impact assessment report by the accredited consultants. The collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986 or an environmental laboratory accredited by the National Accreditation Board.
- (iv) EMP prepared for implementation shall comprise of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- (v) The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the Puducherry Pollution Control Committee prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the remediation plan and natural and community augmentation plan and after the recommendation by SEAC and approval of the regulatory authority.
- (vi) Fund allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/2017-IA.III dated 1<sup>st</sup> May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.

After detailed discussion the SEIAA decided to issue the above Terms of Reference (TOR) recommended by SEAC for the project as per the Ministry of Environment, Forest and Climate Change Notification vide S.O. 804(E) dated 14.03.2017 and S.O. 1030(E) dated 08.03.2018. The Authority authorized the Member Secretary, SEIAA to issue the TOR for the above proposal.

**Agenda Item No. 3: Any other item with the permission of the Chairman – Nil.**

  
(Dr. T. Ganesan)  
Member

  
(Tmt. Smitha .R.)  
Member Secretary

  
(Dr. G. Srinivasan)  
Chairman



ANNEXURE - I

**Terms of Reference for EIA and preparation of Environment Management Plan**

1. Project description, its importance and the benefits.
2. Project site details (location, toposheet of the study area of 10 km, coordinates, google map, layout map, land use, geological features and geo-hydrological status of the study area, drainage).
3. Land use as per the approved Master Plan of the area, Permission/approvals required from the land owning agencies, Development Authorities, Local Body, Water Supply & Sewerage Board etc.
4. Land acquisition status, R&R details.
5. Forest and Wildlife and eco-sensitive zones, if any in the study area of 10 km – Clearances required under the Forest (Conservation) Act, 1980, the Wildlife (Protection) Act, 1972 and/or the Environment (Protection) Act, 1986.
6. Baseline environmental study for ambient air (PM10, PM 2.5, SoZ, NOx & CO), water (both surface and ground), noise and soil for one month (except monsoon period) as per MoEF&CC/CPCB guidelines at Minimum 5 locations in the study area of 10 km.
7. Details on flora and fauna and socio-economic aspects in the study area.
8. Likely impact of the project on the environmental parameters (ambient air, surface and ground water, land, flora and fauna and socio-economic, etc).
9. Source of water for different identified purposes with the permissions required from the concerned authorities, both for surface water and the ground water (by CGWA) as the case may be, Rain water harvesting, etc.
10. Minimizing the demand of water required within building, landscape, process (air-conditioning etc) and construction.
11. Techniques, best practices and standards for recycling of wastewater.
12. Minimizing the load on the municipal supply and groundwater sources through recycling of water.
13. Techniques for rainwater harvesting including estimation of the potential of rainwater harvesting.
14. Measures for quality control of various water source such as fresh water, underground water, municipal, tankers, rainwater and recycled water.
15. Storm water management.



16. Waste water management (treatment, reuse and disposal) for the project and also the study area.
17. Management of solid waste and the construction & demolition waste for the project vis-a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
18. Management of Hazardous waste, E-wastes and Bio-medical wastes.
19. Energy efficient measures (LED lights, solar power, etc) during construction as well as during operational phase of the project.
20. Incorporation of solar passive techniques in a building design and enhanced building material specifications to minimise load on conventional systems (heating, cooling, ventilation and lighting).
21. Designing energy-efficient lighting and HVAC systems (heating, ventilation and air-conditioning).
22. Use of renewable energy systems (solar photovoltaic systems/ solar water heating systems) to meet a part of building load.
23. Green belt and landscaping details.
24. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
25. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
26. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.

**All the building projects including hotels, hospitals shall be prescribed with the following additional TOR points along with Specific TOR enumerated for study of ecological damages, remediation including above mentioned points for EIA and preparation of Environment Management Plan:**

- (i) The EIA would study the impact of dewatering and draw up an action plan for disposal of the excess water.
- (ii) The EIA would study the impact of Demolition and conformance to the Construction and Demolition Rules under the E.P. Act, 1986.



- (iii) Certified Compliance Report issued by the MoEF&CC, Regional Office or concerned Regional Office of Central Pollution Control Board or the Member Secretary of the respective State Pollution Control Board for the conditions stipulated in the earlier environmental clearance issued for the project along with an action taken report on issues which have been stated to be partially complied or non/not complied.
- (iv) The Air Quality Index shall be calculated for base level air quality.
- (v) A detailed report on compliance to ECBC-2017 norms.
- (vi) A certificate from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- (vii) An assessment of the cumulative impact of all development and increased inhabitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 2 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA and the plan to be implemented to the satisfaction of all the concerned state departments and implementing agencies.
- (viii) The permission of the CGWA for abstraction of ground water if any and for basement/excavation dewatering if applicable.
- (ix) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project.
- (x) A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point.
- (xi) A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- (xii) The Air Quality Index shall be calculated for base level air quality.

**For Hospitals Only (In addition to above)**

- (xiii) As per prescribed WHO guidelines, the proposal has to ensure that the Indoor Air Quality is maintained as per prescribed standards.
- (xiv) Proposals to ensure that the parking areas are secure and do not permit entry of vehicles within the Hospital campus. Only ambulances and emergency vehicles shall be provided access into the hospital through dedicated emergency and exit gates.



Battery operated vehicles shall be provided for internal movement of patients and attendants.

- (xv) A management plan for handling and disposal of biomedical wastes to the satisfaction of the State Pollution Control Board shall be drawn up in conformance to the Biomedical Waste Management Rules, 2016.
- (xvi) Silence zones under the Noise Rules shall be demarcated and maintained in consultation with the District Administration. Proposals should be submitted in this regards.
- (xvii) Laboratory wastes shall be managed in accordance to the BMW Rules, 2016 and the atomic Energy Commission regulations as applicable. Proposals may be submitted in this regards.

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