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| 118-<br><br>F. 6580 | **Proposed construction of 3.0 MLD Zero Liquid Discharge (ZLD) based CETP with common reject management system by M/s. Green Environment Association at S.F.No. 478/1, 2, 2A, 2B, 3, 4, 5, 6, 479/1A, 1C & 480/3A1, Pallakkapalayam Village, Thiruchengode Taluk, Namakkal District – Activity 7 (h) of the Schedule of EIA Notification 2006 - Category "B1"- Common Effluent Treatment Plants (CETPs) - Terms of Reference (ToR) - Regarding** |
| | The Proponent, M/s. Green Environment Association has applied for Terms of Reference (ToR) to SEIAA-TN on 02.05.2018 for the Proposed construction of 3.0 MLD Zero Liquid Discharge (ZLD) based CETP with common reject management system at S.F.No. 478/1, 2, 2A, 2B, 3, 4, 5, 6, 479/1A, 1C & 480/3A1, Pallakkapalayam Village, Thiruchengode Taluk, Namakkal District, Tamilnadu.<br>The salient features of the project are as follows as stated in the project proposal submitted by the proponent.<br>1. The proposal involves construction of Common Effluent Treatment plant (CETP) 3 MLD Zero Liquid Discharge & 3.5 MW Captive Power Plant at Pallakkapalayam Village, Thiruchengode Taluk, Namakkal District.<br>2. The construction of CETP is to treat the effluent generated from 118 number of textile bleaching and dyeing industries in Namakkal cluster.<br>3. The effluent generated by 118 industries are joining together to install a CETP-ZLD to achieve zero liquid discharge.<br>4. The land use for the proposed CETP falls under unclassified area as per the DTCP.<br>5. The total land area of the project is 44070.26 sq.m<br><br>The project proposal was placed in the 114th meeting of the SEAC held on 20.06.2018. The SEAC Members interacted with the proponent regarding the project proposal. From the deliberations made during the discussion the following observations are made:<br>1. There is no clarity on the type and the number of industries in the |

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| | category of dyeing and bleaching which will contribute to the effluent for treatment in the proposed CETP. In page number 14 of the feasibility report, it is stated that 118 textile bleaching and dyeing units will be involved whereas in page number 20 it is stated that the CETP will be designed for 118 dyeing units with the existing IETP. During presentation it was mentioned that it will be 100 dyeing and 18 bleaching units. Such a confusion exists even in the case of fundamental data.<br>2. There is no clarity on the type of treatment after which the effluent is drafted for treatment in the CETP. In the report it is said that NF treated reject will be treated in the CETP whereas in actuality not all 118 units have NF treatment as informed during the discussion. This is another serious error which will affect the planning of the CETP.<br>3. Arriving at the influent characteristics for the CETP is very critical since it acts as a basic parameter for planning and designing the CETP process and individual units. In the report there is no clarity about how this was arrived at. In fact the tables on pages 29 & 30 are not matching each other.<br>4. The treatment process selection should be based on actual studies using a representative effluent sample. There is no clarity about how this treatment technology selected for the CETP was chosen as suitable technology in this case.<br>5. As stated above, as examples, the report filed by the proponent lacks clarity and does not contain enough information to justify the expected working of the CETP. The above examples are only samples and such clarification can be raised on many other aspects in the report.<br>Keeping in mind the above points, the SEAC decided to defer the proposal of the proponent for construction of 3.0 MLD Zero Liquid Discharge (ZLD) based CETP with common reject management system, and direct the proponent to submit a revised proposal which will |

include all necessary scientific data and methodology selected for planning and designing the CETP for further consideration of the SEAC.

The above minutes of the SEAC was communicated to the proponent to SEIAA-TN and in response the proponent submitted revised proposals were presented by the proponent. The presentation covered:

1. Treatment process facilities available at IETPs.
2. Treatment process Recommended at IETPs.
3. Recommended Process Schematic of IETPs.
4. Treatment Design Approved by IIT-Madras.
5. Design parameter analysis of samples taken at individual units.
6. Analysis of samples taken at individual units (resampling).
7. Design Parameters.
8. RO Membrane projections for CETP (TDS-40000 ppm).
9. NF projections for CETP.
10. Membrane projections for IETPs effluent quality (TDS-6000 ppm).
11. Membrane projections for IETPs effluent quality
12. Membrane projections for IETPs effluent quality (TDS-9000 ppm).

The SEAC noted that the proponent has given satisfactory details related to the project and hence decided to recommend the project proposal to SEIAA-TN for the issue of ToR with public hearing for the project of proposed construction of 3.0 MLD Zero Liquid Discharge (ZLD) based CETP with common reject management system by M/s. Green Environment Association at S.F.No. 478/1, 2, 2A, 2B, 3, 4, 5, 6, 479/1A, 1C & 480/3A1, Pallakkapalayam Village, Thiruchengode Taluk, Namakkal District.

| S.No | Name | Designation | Signature |
|---|---|---|---|
| 1 | Dr. K. Thanasekaran | Member | |

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| 2 | Dr.K.Valivittan | Member | |
| 3 | Dr.Indumathi M. Nambi | Member | |
| 4 | Dr. G. S. Vijayalakshmi | Member | |
| 5 | Dr. M. Jayaprakash | Member | |
| 6 | Shri V. Sivasubramanian | Member | |
| 7 | Shri V. Shanmugasundaram | Member | |
| 8 | Shri B. Sugirtharaj Koilpillai | Member | |
| 9 | Shri. P. Balamadeswaran | Co-opt Member | |
| 10 | Shri. M.S. Jayaram | Co-opt Member | |

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STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

## 7(h): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR COMMON EFFLUENT TREATMENT PLANTS (CETPs) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

1) Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental angle, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.
2) Details of the land use break-up for the proposed project. Details of land use around 10 km radius of the project site.
3) Details of member units, its production capacity, waste generation, characteristic and details of primary treatment provided by the member units.
4) Details on present treatment and disposal systems
5) Details of effluent collection system from member units level.
6) Details of hazardous waste collection. Sill proof arrangement
7) Examine and submit details of inlet characteristics.
8) Details of the CETP with design parameters. Layout plan of CETP. And open spaces.
9) Details of the adequate power back up facility, to meet the energy requirement in case of power failure from the grid.
10) Details of the usage of treated effluent for green belt development and horticulture.
11) Submit a copy of MoU made between the Member units.
12) Details of storage facility available at the CETP.
13) Examine and submit details of sludge / solid waste generated and method of disposal.MoU in this regard.

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14) Details of water requirement, source and water balance chart .

15) Details of green belt

16) Details of performance monitoring , lab facility with technical persons.

17) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

18) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.

19) Details of water meters for inflow and outflow monitoring etc.

20) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "http://moef.nic.in/Manual/CETPs".

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MEMBER SECRETARY
SEAC-TN

CHAIRMAN
SEAC-TN