94-06 F. 6399	Proposed installation of 8 MLD capacity ZLD based Common Effluent Treatment plant (CETP) along with 4 MW Captive Power Plant by M/s.Kadayampatti Common Effluent Treatment Plant (Bhavani) Private Limited at S.F.No.34/1, 34/6, 34/7, 34/8, 34/9, 34/10, 34/11, 7/1,7/2,8/5,8/6,8/7,8/8, & 9/3,Kadayampatti village, Bhavani Taluk, Erode District, Tamilnadu – Category "B1"- under item No. 7 (h) of the Schedule of EIA Notification 2006, Common Effluent Treatment Plants (CETPs) - Terms of Reference (ToR) - Regarding
	The Proponent, M/s.Kadayampatti Common Effluent Treatment Plant (Bhavani) Private Limited has applied for Terms of Reference (ToR) for the Proposed installation of 8 MLD capacity ZLD based Common Effluent Treatment plant (CETP) along with 4 MW Captive Power Plant at S.F.No.34/1, 34/6, 34/7, 34/8,3 4/9, 34/10, 34/11,7/1,7/2,8/5,8/6,8/7,8/8, & 9/3, Kadayampatti village, Bhavani Taluk, Erode District, Tamilnadu on 16.05.2017. The salient features of the project are as follows as stated in the project proposal submitted by the proponent. 1. The Government of Tamil Nadu announced grants for the textile industry to install the pollution control facilities to treat the effluent generating from the bleaching and dyeing operation in industries. This project is based on the announcement made by the Hon'ble Chief Minister of Tamil Nadu under Rule 110 in the Legislative Assembly on 11.08.2014 for the Environment Department and as per the G.O. (Ms.) No. 48, dated: 31.03.2015 of E & F Department for establishment of integrated textile processing parks with common effluent treatment plants (CETPs) based on Zero Liquid Discharge (ZLD) for rehabilitation of micro, small and medium scale textile bleaching, dyeing and its allied units in the district of Namakkal, Erode, Salem and Karur. 2. In line with the above announcement of Government of Tamil Nadu, the M/s.Kadayampatti Common Effluent Treatment Plant (Bhavani) Private Limited have prepared a project proposal to

manage the effluents generated in 41 existing units consisting of Textile dyeing, Bleaching and printing of cotton fabrics. All these existing units have valid consent to operate from TNPCB.

3. The proposal prepared by the M/s.Kadayampatti Common Effluent Treatment Plant (Bhavani) Private Limited have been approved by the TNPCB and recommended to the Joint Secretary, Ministry of Textiles, Government of India, to consider the same for financial assistances.
4. A co-gen power plant of 4 MW capacity is also proposed along with the CETP. The proposal cites coal, natural gas, furnace oil and biomass as the fuel. The power supply generated from the Power Plant will be connected to TANGEDCO and distributed ZLD CETP as well as member dyeing units in cluster park.
5. The overall strength of the project is Zero Liquid Discharge.
   a) The Recovered water in terms of RO-Permeate and Evaporator Condensate will be reused at member dyeing units.
   b) The Brine from Brine treatment System will be reused at member dyeing units.
   c) The Sludge Cake (Lime Sludge) will be utilized by the Cement Industries.
   d) The recovered Glaubers's salt ($Na_2SO_4.10H_2O$) will be reused at the member dyeing units.
   e) The Bio Sludge from the filter press will be utilized as a fuel in the co-gen Power plant 4 MW Capacity proposed along with the CETP.
6. As per the Proposal, the only waste that remains to be disposed is the waste salt from Agitated Thin Film Drier (ATFD).

The project proposal was placed in the 94th meeting of the SEAC held on 08.09.2017. Based on the presentation made by the proponent and the documents furnished, the SEAC decided to recommend the proposal for the grant of Terms of Reference (ToR) with Public Hearing to SEIAA, subject to

	the following specific conditions in addition to the normal conditions as part of ToR: 1. There is a concern on the site already selected for the installation of the CETP. As per the map presented by the proponent, the Kadayampatti Lake surplus channel (canal) runs close to the Western boundary of the CETP site. Any operation in the CETP should not affect the functioning of the channel in terms of its geometry and hydraulics. The units forming part of the CETP should be located away from the channel as far as possible and a thick green belt should be located in between the channel and the CETP units. 2. The textile effluent characteristics that will be used for the design of the CETP units have to be arrived at scientifically to represent the true characteristics of the combined effluents generated in the textile dyeing, bleaching and cotton printing units. The EIA report should contain the detailed methodology adopted for arriving at the design characteristics of the effluent. 3. The treatment technology proposed to be used in the CETP should be technically feasible and environmentally safe. The EIA report should contain detailed report on the methodologies (laboratory studies) adopted for testing the feasibility of adopting the proposed technology in the treatment of the effluent. The report should also contain stage wise performance of each and every treatment unit. 4. It is proposed that the recovered water will be reused in the industry. Similarly, the Brine from Brine treatment System will be reused at member dyeing units and the recovered Glaubers's salt ($Na_2SO_4.10H_2O$) will be reused at the member dyeing units. The details of the complete characteristics of the reused products and the characteristics of the raw materials including water currently used by the industry should be

	furnished. 5. The performance data from the CETPs in Tiruppur where the proposed technology is said to be in implementation, should be furnished. 6. The waste salts resulting in the CETP is hazardous in nature. Hence the waste salt shall be collected and sent to notified TSDF site in accordance with the Hazardous and other waste (Management and Trans boundary movement) Rules, 2016. 7. A minimum of 33% of the total area should be allocated for Green Belt Development with local tree species like Neem, Magilam, Vagai, Poovarasu, Palai and Pungai. 8. The proponent should implement CSR activities involving an expenditure to the level of minimum of 0.5% of the total project cost. Details of the proposed activities should be furnished in the EIA report. 9. The Characteristics of the Bio-mass should be detailed. 10. There is a legal issue related to the proposed project. The proponent proposes a co-gen power plant with a capacity of 4 MW using Coal, Furnace Oil, Natural Gas and Biomass. Both the CETP and the Power Plant will be installed at a site which is 2.2km away from the Cauvery river, 0.6km from Bhavani river and 0.53km from Kadayampatti lake. Through G.O. Ms. No. 127/E&F/EC Dept./ECIII dated: 08.05.1998 read with G.O.Ms. No. (ID). 223/E&F/EC.III dated: 02.09.1998, the Government of Tamil Nadu have issued orders imposing a total ban of setting up of the Thermal Power Stations using fuel other than Natural Gas/ LNG/ CNG/ Naptha/ Biomass within 5kms from the embankments of the Cauvery and its tributaries. Hence, the project proponent has to obtain GO relaxation from the Government for setting up of the 4 MW captive power plant if the proponent proposes to use Coal and furnace oil as the fuels. The EIA report should be prepared

	in line with the decision regarding the fuel proposed to be used.

S.No	Name	Designation	Signature
1	Dr. K. Thanasekaran	Member	
2	Dr. A. Navaneetha Gopalakrishnan	Member	
3	Dr.K.Valivittan	Member	
4	Dr.Indumathi M. Nambi	Member	
5	Dr. G. S. Vijayalakshmi	Member	
6	Dr. M. Jayaprakash	Member	
7	Shri V. Sivasubramanian	Member	
8	Shri V. Shanmugasundaram	Member	
9	Shri B. Sugirtharaj Koilpillai	Member	
10	Shri. P. Balamadeswaran	Co-opt Member	
11	Shri. M.S. Jayaram	Co-opt Member	

Member-Secretary, SEAC

Chairman, SEAC

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.
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".

Member-Secretary, SEAC

Chairman, SEAC