

MAHARASHTRA POLLUTION CONTROL BOARD

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No. MPCB/JD(WPC)/B: 3019

Date: 31/07/2017.

Sub: Monitoring protocol for CETPs near to compliance in Maharashtra.

The Common Effluent Treatment Plants was introduced with an approach to solve the problem of pollution caused by effluent discharge by small scale industries. These small scale industries lack technical expertise and are not financially viable to provide full-fledged effluent treatment facilities. The main objective of having CETP to help the small scale industries who cannot afford to have full-fledged treatment facility and can't afford to have trained staff, space to have organize disposal treated waste.

However, there are few CETPs near to compliance are lacking in administrative control on CETPs and don't have proper vigilance on their member industries. The major flaws such as fluctuation in hydraulic flow and pollution load, online measurement, sludge handling, lack of scientific operation and maintenance and lack of laboratory facilities etc. The similar kind of the outputs were also given by member institutes appointed by MPCB for assessment of the CETPs in Maharashtra. There is availability of the technical expertise, advance technologies and majority of the CETPs are achieving disposal standards laid by the Board. There are some CETPs which are near to compliance. The randomized inspection scheduler have put the restrictions on the number of samples to be collected and analyzed. All highly pollution potential industries are considered in the monitoring scheduler.

In this regard, the meeting was held on 05/07/2017 at MPCB and directions were issued on 06/07/2017. In spite of the various directions towards curtailment of effluent quantity, closure of several units in recent past, these CETPs are struggling to achieve disposal standards. Hence, it is recommended to develop a special protocol for monitoring of member industries in the areas of TEPS CETP at Tarapur, RIA CETP at Roha, Taloja CETP at Taloja, Lote CETP at Lote, PRIA CETP at Patalganga.

It is felt necessary to develop monitoring mechanism for substantial quantity of effluent generation and potential to disturb functioning of CETP. The member industries generating 25 M³/d and above shall be brought under the protocol. It includes following strategy of monitoring:

1. The online monitoring system shall be provided by individual industries duly calliberated for pH, flow, BOD, COD and SS and the camera to assess status of monitoring probe. The calliberation shall be carried out jointly in presence of Realtime Online monitoring system provider, SRO/RO and industry, the calliberation certificate shall be issued jointly within 15 days.
2. The industries generating 25 M³/d and above shall install above mentioned facilities within a month time i.e. upto 31st August, 2017 .
3. The industries shall provide positive discharge facilities and immediately they shall terminate underground disposal mechanism to the MIDC drains. The outlet shall be secured with lock and key arrangement one key will remain with SRO office and another one with the industry.
4. The CETP shall provide SCADA to monitor all member industries generating effluent more than 25 M³/d for above parameters.
5. CETP shall provide proper inlet and outlet flow measurement mechanism along with the parameters to be monitored as per the CPCB protocol. As it was directed no. of times to the CETPs to provide the SCADA now this is the last warning that they shall provide SCADA within 2 months time i.e 30th November, 2017 failing which Board will initiate appropriate legal action.
6. The clarification in the implementation of this protocol is as follows:

A) Protocol for SSI units having effluent generating < 25 m³/day.

- a. Categorization of effluent streams (strong & weak).
- b. Separate treatment for strong/concentrated stream (having COD & TDS Conc.> 5000 mg/l.) so as to achieve ZLD.
- c. Provision of primary treatment facility so as to meet CETP inlet norms.
- d. Provision of flow and pH measuring devices including separate energy meter so as to measure efficiency of ETP.
- e. Submission of record to SRO, MPCB about hazardous waste generation, chemical consumption, power consumption on monthly basis.

B) Protocol for all units having effluent > 25 M³/day.

- a. Categorization of effluent streams (strong & weak).



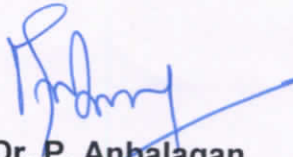
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- b. Separate treatment for strong/concentrated stream (having COD & TDS Conc.> 5000 mg/l.) so as to achieve ZLD.
- c. Online monitoring system for the parameters pH, SS, Flow, BOD, COD and camera to assess the status of monitoring probe including separate energy meter.
- d. Submission of monthly data to SRO about Chemical consumption, hazardous generation, power consumption etc.
- e. To form environment cell having qualified environment engineers/environment science graduates including supporting staff for O&M of ETP. The Environment Cell should report to plant I/C.
- f. To synchronize the data with CETP SCADA system.
- g. To validate the online monitoring system from RO/SRO within a month.

C) CETP

- a. To provide SCADA system and submit daily report to SRO/RO online.
- b. Daily monitoring of operational parameter viz pH, flow, DO, MLSS, COD, SS and sludge generation.
- c. To provide well qualified train manpower for as mentioned above at B-5 for operation and maintenance of CETP.
- d. Provision and validation of online monitoring system from RO/SRO within a month.
- e. To submit regular data about sludge generation power outbreak and chemical consumption to MPCB.

The above monitoring protocol shall be implemented immediately by the near to compliance CETPs mentioned above.


Dr. P. Anbalagan
Member Secretary

Copy to:

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Sub-Regional Officer, Talaja, Tarapur-1, Raigad-1, 2, Chiplun.

Copy to:

TEPS CETP at Tarapur, RIA CETP at Roha, Talaja CETP at Talaja, Lote CETP at Lote, PRIA CETP at Patalganga – They are directed to bring this protocol to the notice of the all member industries of the CETPs.