



Central Pollution Control Board Regional Directorate, Bhopal

Feedback report of training programme sponsored by CPCB on " Design, Operation, maintenance and Performance of STP, CETP, CBMWTFs" during Sept. 06-08, 2017 at NEERI, Nagpur

Wastewater treatment is the process of converting wastewater – water that is no longer needed or is no longer suitable for use – into bilge water that can be discharged back into the environment. It's formed by a number of activities including bathing, washing, using the toilet, and rainwater runoff. Wastewater is full of contaminants including bacteria, chemicals and other toxins. Its treatment aims at reducing the contaminants to acceptable levels to make the water safe for discharge back into the environment.

Biomedical waste is any kind of waste containing infectious (or potentially infectious) materials. It may also include waste associated with the generation of biomedical waste that visually appears to be of medical or laboratory origin (e.g., packaging, unused bandages, infusion kits, etc.), as well research laboratory waste containing bio-molecules or organisms that are restricted from environmental release, hence its proper disposal is required.



Therefore, proper knowledge and skill development for STP, CETP and CBWTF becomes most crucial factor for regulators i.e. CPCB and SPCB. Training division of CPCB, Delhi recognizes this need and organized a three days training programme–cum workshop on ' **Design, Operation, maintenance and Performance of STP, CETP, CBMWTFs** at NEERI, Nagpur during 06 – 08 September 2017. The training programme had been

includes technical classes by experts, technology demonstration, group exercises and presentation and visits for practical experience.

The workshop inaugurated by Director of NEERI in his inaugural speech he shared earlier experience of CPCB and what are the new challenges faced by the pollution control boards and how to tackle them with sustainability. He also appreciated the work of Guideline preparation of CPCB regarding CETP and CBWTF as it is requirement of present scenario. The entire training programme has been coordinated by Prof. Pofli Sr. Scientist he also delivers various informative lectures on waste water treatment system and STP located at Ambajhari and 130 MLD STP operated by Nagpur nagar nigam was also visited on 8.9.17 under field study and it is good experience.

What is my experience regarding STP and CETP :

During earlier inspection of common facility it was observed that several issues related to STP and CETP are still persist due to unavailability of information/guidance. Some of the issues as mention below:

- Most of the STPs are not functioning properly due to variation in inlet parameters.
- SPCB also not fully acquainted with new technology and its implementation.
- ULB having fund for construction of STPs but for O&M they don't have money.
- Poor after sale service of vendor and O&M and Shortage of Skilled manpower.
- Poor coordination between construction and O&M agencies of STP and CETP.
- ZLD related issue with CETP and no demand of treated water of STPs.



What is my experience regarding CBWTF :

- Most of the CBWTF not functioning properly.
- Training of workers.

- GPS tracking system of waste transportation vehicle.
- Up-gradation of Existing Effluent treatment Plants.
- Drainage system of facility and connection of vehicle washing and container washing area to ETP.
- 02 Second residence time.
- Waste collection from CBC/PHC/Veterinary

What I learn from workshop:

After attending the workshop a format/check list has been developed by me for future inspection related to STP/CETP/CBWTF and also implemented in my inspections. I have also given the presentation in RD, Bhopal and shared my knowledge with my senior officer and colleague which was I got only after attending this workshop. The following points have been discussed during presentation at Bhopal office.

- Suitability of treatment technology for various type of effluent.
- Consent to Operate validity and parameters mentioned for CETP/CBWTF.
- Up gradation requirement of incinerators.
- Up gradation requirement of CETP as the character of effluent changed.
- How to implement the new environmental standards.



What are my expectation from Training Division of CPCB:

1. At least once in a year Officers of Concern division of HO Delhi jointly inspects the industry regarding CETP/CBWTF so that the employee of RDs updated accordingly.

2. To educate the RDs regarding new tools of verification, trouble shooting of CBWTF/CETP operations, new technology etc. through Video Conference / Webinar as and when required.

3. If any discrepancies, mistakes, ignorance was found in inspection reports of STP/CETP/CBWTF so that kindly informed the concern person with proper guidance, it will improve the work quality.

4. If possible then organize a refresher course for the same participants in next year.

5. Instruct the training institute for more field visits rather than class room ppt.

6. Trouble shooting related to O&M of common facility must be included in ppt.

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Date : 11.10.2017