

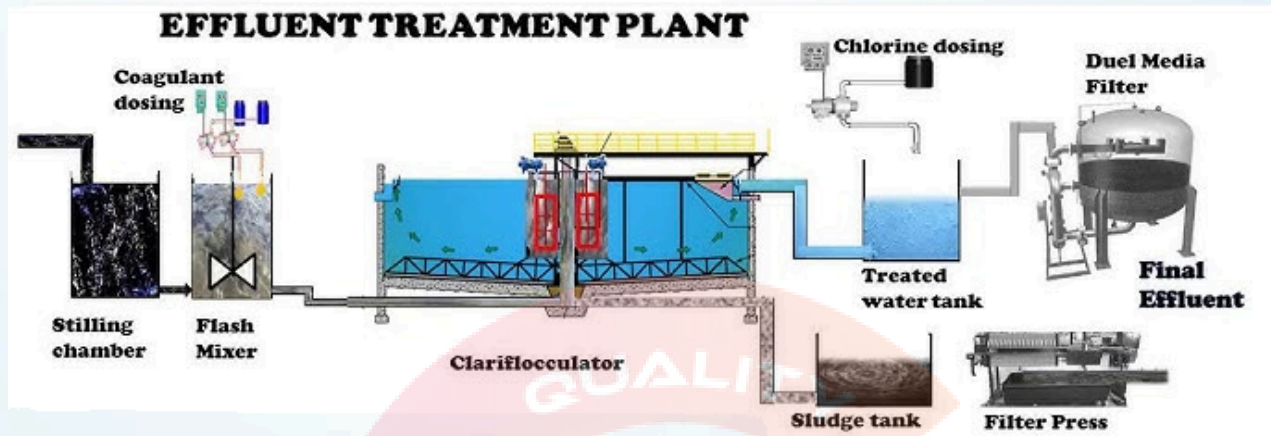


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Effluent treatment plant (ETP)



- ETP (Effluent Treatment Plant) is a process design for treating the industrial waste water for its reuse or safe disposal to the environment.
- Influent: Untreated industrial waste water.
- Effluent: Treated industrial waste water.
- Sludge: Solid part separated from waste water by ETP.

Effluent Treatment Plant or ETP is one type of waste water treatment method which is particularly designed to purify industrial waste water for its reuse and its aim is to release safe water to environment from the harmful effect caused by the effluent

Industrial effluents contain various materials, depending on the industry. Some effluents contain oils and grease, and some contain toxic materials(e.g., cyanide). Effluents from food and beverage factories contain degradable organic pollutants.

Since industrial waste water contains a diversity of impurities and therefore specific treatment technology called ETP is required.

Benefits of ETP:

1. To clean industry effluent and recycle it for further use
2. To reduce the usage of fresh water in industries
3. To preserve natural environment against pollution
4. To meet the standards for emission of pollutants set by the Government & avoid heavy penalty
5. To reduce expenditure on water acquisition

Flash mixer

A flash mixer, also known as a rapid mixer, is a device used in water treatment plants to quickly disperse chemicals into water to encourage coagulation and remove solids.



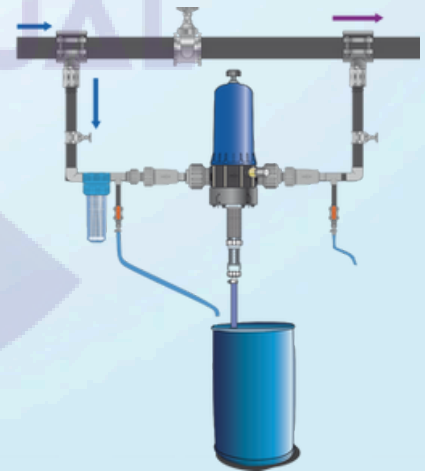
Clariflocculator



The Clariflocculator is a single device that serves both the clarifier and the flocculator. It is made up of two concentric tanks, with the inside tank serving as a flocculation chamber and the external tank as a clarifier chamber.

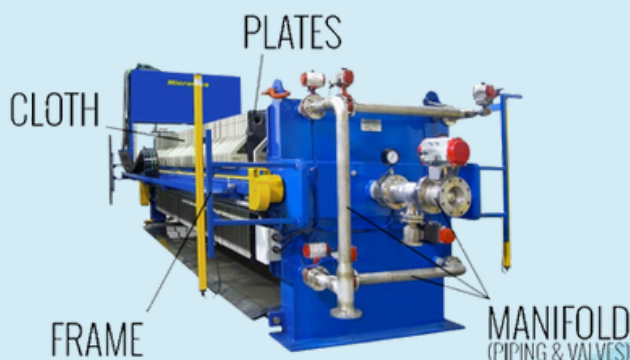
Chlorine dosing

The quantity of chlorine added, usually at a covered water storage reservoir, varies but is typically in the range of 0.5–2 mg/l. High doses of chlorine (about 50 mg/l) are used for disinfecting new or repaired equipment such as distribution pipes; however, such highly chlorinated water is usually flushed to waste.



Filter press

A filter press is one of the oldest and most trusted pieces of dewatering equipment. It's used for wastewater treatment across a variety of industries and applications. A filter press works by separating out solids from liquids, removing impurities, and suspended solids from industrial wastewater.



Sludge tank

Sludge holding tanks provide storage of biosolids and can serve as a location for thickening before further processing or disposal. Mixing in sludge holding tanks provides uniform sludge concentration, prevents sludge stratification, and ensures a homogeneous feed to dewatering equipment.



Dual media filter

Dual Media Filter is unit operation used in all water treatment units. A sand-anthracite filter or dual media filter/multi-media filter is primarily used for the removal of turbidity, suspended solids, Organic matter, test, Order and color.

Treated water tank

Water treatment is any process that improves the quality of water to make it appropriate for a specific end-use. The end use may be drinking, industrial water supply, irrigation, river flow maintenance, water recreation or many other uses, including being safely returned to the environment.





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Contact Us :

GSTIN: 29AAKCC9828K1ZV



+91 9840518178

+91 9035274837



info@coequalservices.org



www.coequalinfotech.org



1st Floor, A, Block, Sarovar Mansion, 101, Dodda Banaswadi Main Rd, Annaiah Reddy Layout, Banaswadi, Bengaluru, Karnataka 560043

