

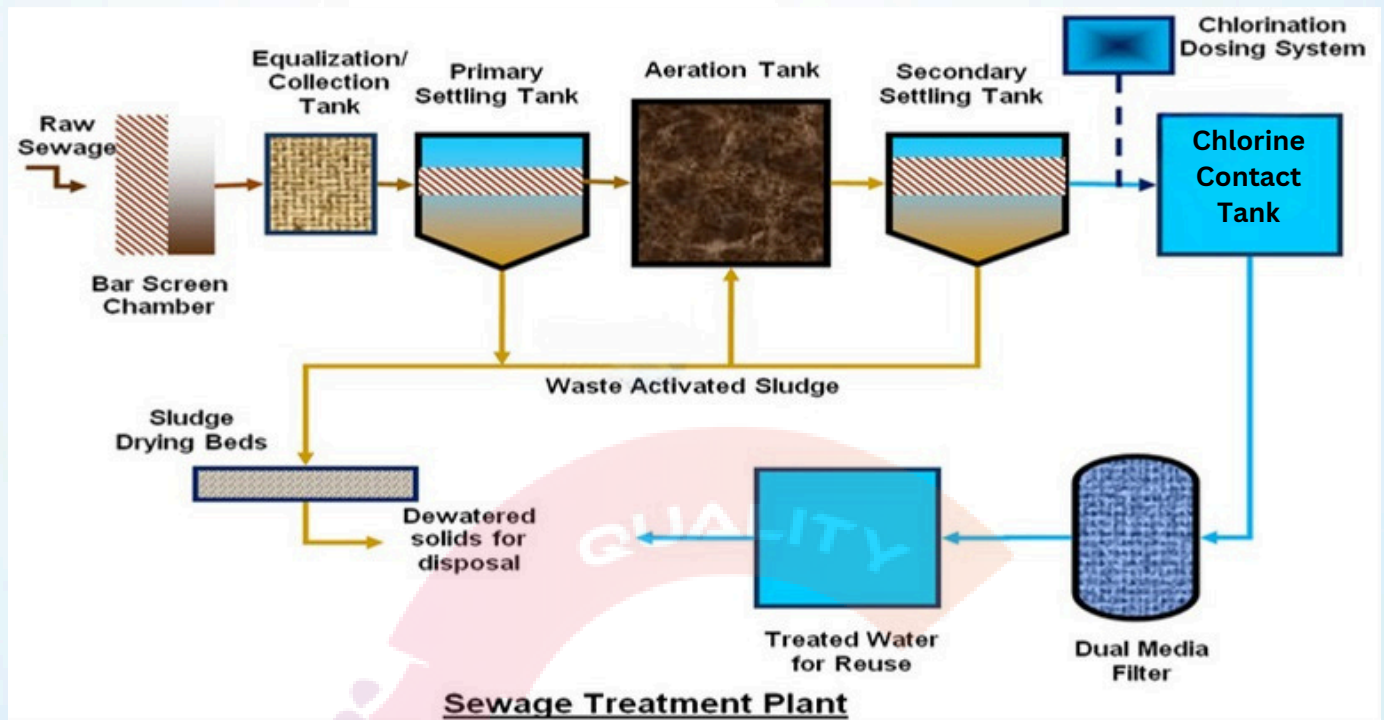


COEQUAL SERVICES



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STP - Sewage treatment Plant



Sewage Treatment Plant is a type of wastewater treatment which aims to remove contaminants from sewage to produce an effluent that is suitable to discharge to the surrounding environment or an intended reuse application, thereby preventing water pollution from raw sewage discharges.

Sewage contains wastewater from households and businesses and possibly pre-treated industrial wastewater. There are a high number of sewage treatment processes to choose from. These can range from decentralized systems (including on-site treatment systems) to large centralized systems involving a network of pipes and pump stations (called sewerage) which convey the sewage to a treatment plant. For cities that have a combined sewer, the sewers will also carry urban runoff (stormwater) to the sewage treatment plant. Sewage treatment often involves two main stages, called primary and secondary treatment, while advanced treatment also incorporates a tertiary treatment stage with polishing processes and nutrient removal. Secondary treatment can reduce organic matter (measured as biological oxygen demand) from sewage, using aerobic or anaerobic biological processes. A so-called quaternary treatment step (sometimes referred to as advanced treatment) can also be added for the removal of organic micropollutants, such as pharmaceuticals. This has been implemented in full-scale for example in Sweden.



Bar Screen

A bar screen chamber in a sewage treatment plant (STP) is a mechanical filter that removes large solid objects from wastewater. In a sewage treatment plant, a bar screen removes large solids from the water. As the drainage passes through the bar screen, it can remove large solids such as rags, napkins, sticks, cans, plastic bags, and polyethylene that are present in the drainage.



Collection Tank

In a sewage treatment plant (STP) is also known as the equalization tank. It's the first tank in the STP and its primary function is to collect raw sewage and pass it on to the rest of the STP at a steady flow rate. An equalization tank in a sewage treatment plant (STP) is a tank that can be any shape, but should allow for air diffusers to be placed to mix the water evenly and cover the entire floor area.



Primary collection Tank

A primary settling tank (PST) is a component of a sewage treatment plant (STP) that removes suspended solids from wastewater. The primary settling tank is designed to remove suspended solids from wastewater. These solids, which can include particles of organic and inorganic matter, can cause problems in subsequent treatment processes if not removed.



Aeration Tank

Is a key component of a sewage treatment plant (STP) that provides oxygen to support the growth of microorganisms. An activated sludge process where air is added into the water to encourage microbial growth. The microbes in the water feed on the organic material and form flocs that then settle out. There are two main ways that air is added into the water and they are through blowers and mixers.

Secondary settling tank



Known as a clarifier, is a circular tank in a sewage treatment plant (STP) that separates treated water from biomass. The Secondary Sedimentation Tanks are spherical tanks with motorized scum and sludge collectors that rotate. Spray systems for scum removal and odour control, as well as pumps for tank drainage, are examples of auxiliary systems.

Chlorine dosing system



Chlorine dosing system consists of a dosing pump, chlorine solution tank with inlet and outlet tubing. Always keep the solution tank filled with chlorine. The pump constantly doses the chlorine to the treated water. Chlorine residual of 0.1 ppm shall be maintained in the treated water.

Chlorine contact tank



In a sewage treatment plant (STP) disinfects sewage by adding sodium hypochlorite (NaOCl) to clarified sewage. A chlorine contact tank (CCT) is a critical part of a water or wastewater treatment system that disinfects water with chlorine before it's distributed. CCTs are often used in municipal water treatment plants to remove pathogens and viruses from surface and ground waters.

Dual media filter



(DMF) is a type of water filter used in sewage treatment plants (STPs) to remove suspended solids and turbidity from water. A dual media filter is a water treatment device that removes suspended solids, turbidity, organic matter, and color from water. It's also known as a sand-anthracite filter or multimedia filter.



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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

