



# Wastewater Treatment System Design

## Technology Overview

Wastewater treatment systems provide mechanisms and processes to purify wastewater discharged from different industrial, commercial and domestic activities as the discharge of untreated wastewater leads to serious adverse environmental impacts as well as health issues. The basic techniques of wastewater treatment include physical, chemical, biological and advanced treatments. The biological treatment processes are basically operated on two different modes of aerobic or anaerobic. Application of particular treatment technique and the design of treatment equipment and mechanisms totally depend on the characteristics of wastewater and the quantity of discharge.

## Potential Application

Implementation of wastewater treatment systems is necessary for all the industries, institutions and commercial establishments who carry out wet processes and discharge wastewater.

## Advantages

- Wastewater Treatment removes contaminated pollutants and converts such water in to reusable form saving valuable water resources.
- Facilitates compliance with disposal standards and thereby to obtain the Environmental Protection Licence (EPL).
- Facilitates safe disposal while protecting environment and the human health.
- Reduces water footprint and saves water bills.

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