

# Educational Institutions Wastewater Management

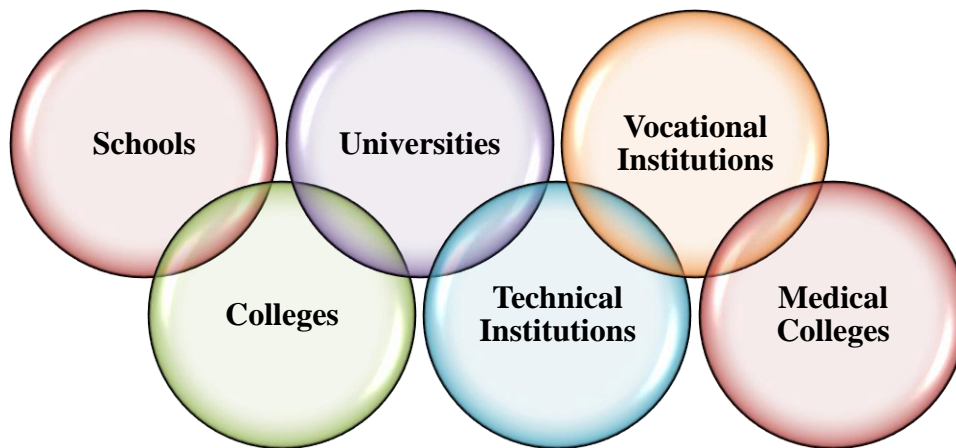


## EnviroTech Consultants

*Preserving Water Sustains Life*

## EDUCATIONAL INSTITUTIONS WASTEWATER MANAGEMENT

**E**nviroTech Consultants offers end-to-end solutions, including design, engineering, construction, and commissioning of Sewage Treatment Plants (STPs) for Educational Institutions, covering mechanical, piping, electrical, and instrumentation work on turnkey basis.



**W**astewater management in educational institutions is essential for safeguarding the environment, protecting public health, complying with regulations, and promoting sustainable practices. It reflects a commitment to responsible resource use and contributes to the well-being of both the institution and the broader community. Proper wastewater management prevents the discharge of untreated or inadequately treated wastewater into natural water bodies. Untreated wastewater can contain pollutants, pathogens, and chemicals that can harm aquatic ecosystems, soil quality, and overall environmental health.

**Government Guidelines-** As per Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Water Supply and Treatment, 1999.

Schools/colleges should have decentralized wastewater treatment systems to treat their wastewater within their premise and use the treated water within the premise for flushing, irrigation, car washing, thermal conditioning etc.

Type	Fresh Water litres per head/day	Flushing water litres per head per day	Total water consumption litres per head per day
Boarding schools/ colleges	90	45	135
Day schools/ colleges	25	20	45

## **Why is wastewater management important for educational institutions?**

Educational institutions are subject to local, regional, and national environmental regulations regarding wastewater discharge. Compliance with these regulations is mandatory to avoid legal consequences and penalties. Proper wastewater management ensures that institutions adhere to established standards for water quality and environmental protection.

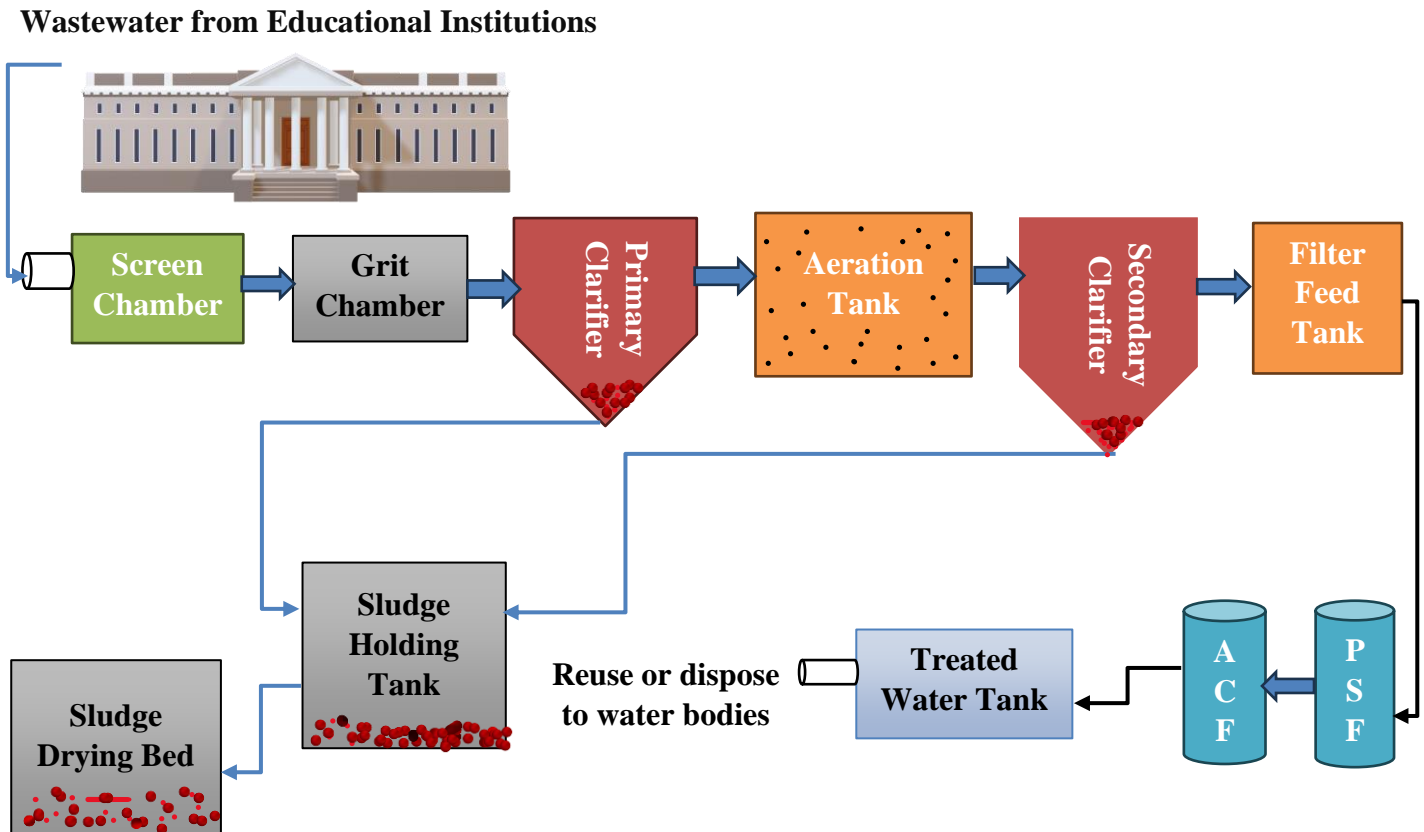
## **Benefits of reusing treated sewage water in educational institutions-**

- Reusing treated sewage water reduces the demand for fresh water, contributing to overall water conservation efforts.
- Utilizing treated sewage water can lead to cost savings for educational institutions by lowering the dependence on potable water sources.
- Reusing water aligns with sustainable practices, promoting responsible water management and reducing the environmental impact of water consumption.
- Reusing and treating sewage water effectively reduces the release of pollutants into natural water bodies, thereby enhancing the water quality in the surrounding environment.

## **Sources of wastewater from educational institutions-**

The sources of wastewater from educational institutions include sanitary wastewater from toilets and sinks, kitchen and cafeteria wastewater, laundry wastewater, laboratory wastewater, maintenance and cleaning wastewater, stormwater runoff, greywater from showers and sinks, groundwater infiltration, and wastewater from sports facilities and residential facilities.

## Treatment Scheme for Educational Institutions Wastewater-



**E**nviroTech Consultants offers highly efficient Moving Bed Biofilm Reactor (MBBR) technology for on-site sewage treatment using containerized systems. This technology operates quietly, without any odor, making it suitable for placement in close proximity to homes, schools, and other structures. By producing high-quality effluent, these containerized systems significantly minimize the physical footprint associated with biological sewage treatment.



## Compact STP for Educational Institutions



**Compact STP Capacity- 5 KLD To 250 KLD**



- Medical colleges
- Dental colleges
- Nursing Colleges
- Pharmacy Colleges
- Ayurvedic colleges
- Engineering Colleges
- Universities
- Arts Commerce, and Science Colleges
- Law Colleges
- Business Colleges
- Schools
- Hotel Management Colleges



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**"A Step Ahead to Maintain Environmental Balance for Betterment of Mankind."**