

Residential & Commercial Buildings Wastewater **Management**



EnviroTech Consultants

Preserving Water Sustains Life

RESIDENTIAL & COMMERCIAL BUILDINGS WASTEWATER MANAGEMENT

EnviroTech Consultants offers end-to-end solutions, including design, engineering, construction, and commissioning of Sewage Treatment Plants (STPs) for Residential & Commercial Buildings, covering mechanical, piping, electrical, and instrumentation work on turnkey basis.



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

Residential & Commercial Buildings should have decentralized wastewater treatment systems to treat their wastewater within their premise and use the treated water within the premise for flushing, irrigation, gardening, 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 |
|--|---------------------------------|--|---|
| Hotels | | | |
| Hotels (up to 3 star) excluding laundry, kitchen, staff and water bodies | 120 | 60 | 180 |
| Hotels (4 star and above) excluding laundry, kitchen, staff and water bodies | 260 | 60 | 320 |
| Offices | | | |
| Offices (including canteen) | 25 | 20 | 45 |
| Shopping and retail (mall) | | | |
| Staff | 25 | 20 | 45 |
| Visitors | 5 | 10 | 15 |
| Hostels | 90 | 45 | 135 |
| Apartments/ Flats | 90 | 45 | 135 |

Why is wastewater management important for Residential & Commercial Buildings?

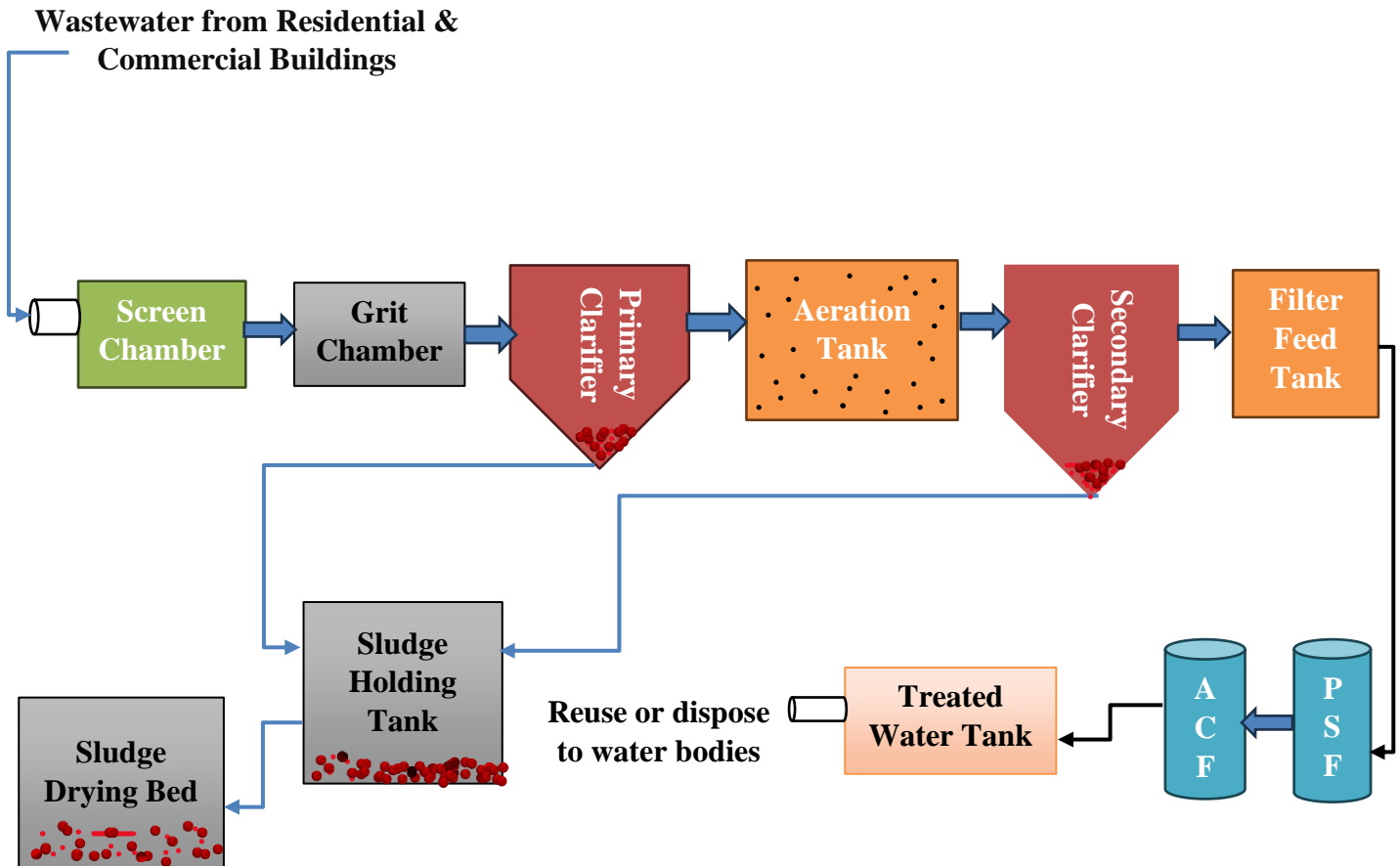
Wastewater management is crucial for residential and commercial buildings to prevent environmental pollution, safeguard public health, and ensure the sustainable use of water resources by effectively collecting, treating, and disposing of sewage and wastewater in a responsible and environmentally friendly manner. Proper wastewater management helps mitigate the risks of waterborne diseases, protects ecosystems, and supports overall environmental sustainability. Additionally, adherence to wastewater regulations and responsible practices contributes to the long-term viability and resilience of communities and businesses.

Sources of wastewater from Residential & Commercial Buildings–

- Water from kitchen sinks, dishwashers, bathroom sinks, showers, bathtubs, and toilets.
- Water generated from washing machines.
- Runoff from watering lawns, gardens, or washing cars.
- Wastewater from septic tanks used in areas without centralized sewage systems.



Treatment Scheme for Residential & Commercial Buildings Wastewater-



EnviroTech 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.



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