



Wipro Hydro Triton Packaged sewage treatment plant

The speed at which developments have taken place has encouraged a renewed mindset to decentralized waste water treatment. A decentralized treatment plant implies that communities and industries can manage their waste water themselves, efficiently, without being dependent entirely on municipal and city infrastructure.

Wipro Hydro Triton is a decentralized membrane bioreactor (MBR) sewage treatment plant (STP) that meets the hygiene needs of small communities and industries to provide quality recycled water from sewage generated at a source.

The Wipro Hydro Triton comes with programmable logic controller (PLC) based automation that make remote monitoring possible. The STP requires minimal maintenance and unlike conventional systems, the Wipro Hydro Triton is aesthetically pleasing.



Applications

- Apartment Complexes
- Industries
- IT Parks
- Malls
- Residences
- Resorts
- Smart Cities
- Villas
- Warehouses

Designed for continuous operation

Parameters	Raw sewage at the inlet	Treated sewage at the outlet
Temperature	25°-35°C	25°-35°C
pH	6.5-7.5	6.5-7.5
Total suspended solids (TSS)	≤ 200 mg/lit	nil
Oil and grease	≤ 50 mg/lit	≤ 5 mg/lit
5 day biochemical oxygen demand (BOD5)	≤ 350 mg/lit	5 mg/lit
Chemical oxygen demand (COD)	≤ 500 - 600 mg/lit	≤ 50 mg/lit

Parameters	Wipro Hydro Triton	Conventional ASP/MBBR/SBR Systems
Output water quality	<ul style="list-style-type: none"> BOD < 5 ppm TSS- practically nil Turbidity <1 NTU 	<ul style="list-style-type: none"> BOD < 20 ppm TSS < 30 NTU after filtration Inconsistent treated water quality
Future expansion	Portable and easy to increase capacity	Shifting and adding capacity is time consuming as it requires separate installations of the units
Footprint	High MLSS - requires minimal retention; footprint reduced by 30 to 40 % of a conventional systems	High retention time due to low MLSS; requires additional space for clarification and filtration
Effluent quality	Treated water can be used directly for gardening, floor cleaning, cooling towers etc.	Treated water has color and odour, hence requires additional treatment
Ease of operation	<ul style="list-style-type: none"> Automated plant operations Single stage ultra filtration with ultra filtration membranes 	<ul style="list-style-type: none"> Manual operations Multiple stages of treatment

Benefits of working with Wipro Water

- Faster delivery and easy installation at site
- Operations and maintenance (O&M) support from Wipro Water with a 5 year contract
- Easy augmentation of existing conventional STP without civil modifications

The Wipro Hydro Triton is available in standard packages with capacities ranging from 5 - 200 Kilolitres per Day (KLD). Installations that require more than 200 KLD would be provided with a customized package or 2 units of the standard package could be used together.

Wipro Water, caters to global clients by providing comprehensive solutions for water and wastewater treatment. Solutions range from raw water treatment to wastewater recycling and reuse including Zero Liquid Discharge (ZLD). Wipro Water is a division of Wipro Infrastructure Engineering, a diverse industrial engineering business with expertise in hydraulics, water treatment, aerospace, additive manufacturing and automation solutions.

