



MEMFILL INNOVA

PRODUCT UNIQUE FEATURES

- Less space requirement for installation
- minimum civil work is required
- Completely biological treatment system
- Reuseable water and biogas as an outcome
- Free from sludge disposal problem
- Retrofitted is possible with existing infrastructure

OPERATIONAL BENEFITS

- Treatment is possible when wastewater with COD in the range 400 to 5000 mg/L
- Easy maintenance
- Lower energy consumption
- Enhance permeability

KEY APPLICATIONS

- Industrial wastewater
- Municipal wastewater
- Sewage water from apartments
- hotels, restaurants, canteens, marriage halls, bakery, food processing units, agro based companies.

Conversely, wastewater can be viewed as a resource-rich commodity from which valuable resources like organic manure, bioenergy, and reused quality water can be extracted with the innovation technology by MEMFILL tech private limited (MTPL). A novel technological advancement for treating organic-rich wastewater and recovering important resources like biogas and reusable quality water which is inline with the pollution control board norms that support sustainable development is the MEMFILL INNOVA process used in treating sewage water.





THE PRODUCT DETAILS:

The present treatment system is developed for treating high strength COD wastewater in the range 300 to 5000ppm, that is normally discharged from commercial and industrial segments.

The INNOVA treatment system integrates the principles of anaerobic, anoxic and aerobic microbial process and specially designed bioreactors systems using MBR hollow fiber membrane filtration. Using MBR hollow fiber is depends on the output water quality and reutilization purpose.

Most of the organics (COD) in the wastewater will be removed (recovered as biogas) during the initial process. The organic bound nitrogen present in wastewater will get converted as ammonia at this stage. In the subsequent treatment, the residual organic gets oxidised completely in the aerobic chamber.

The anaerobic module will be working at a hydraulic retention time (HRT) of around 12-14 hours depends on the feed water COD. Nearly 70-80% of the inlet COD reduction happens at this stage, where it will be converted as biogas.

The residual COD will be oxidised in the subsequent aerobic treatment module. Treated water filter thro MBR filtration process.

We focus on the area:



Save Environment, Save Green, Save Planet

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