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# Membrane Bio Reactor



Toray



GE / Suez

**Sewage Treatment Plants  
that  
Meet KSPCB Norms**

# KSPCB Norms in Karnataka

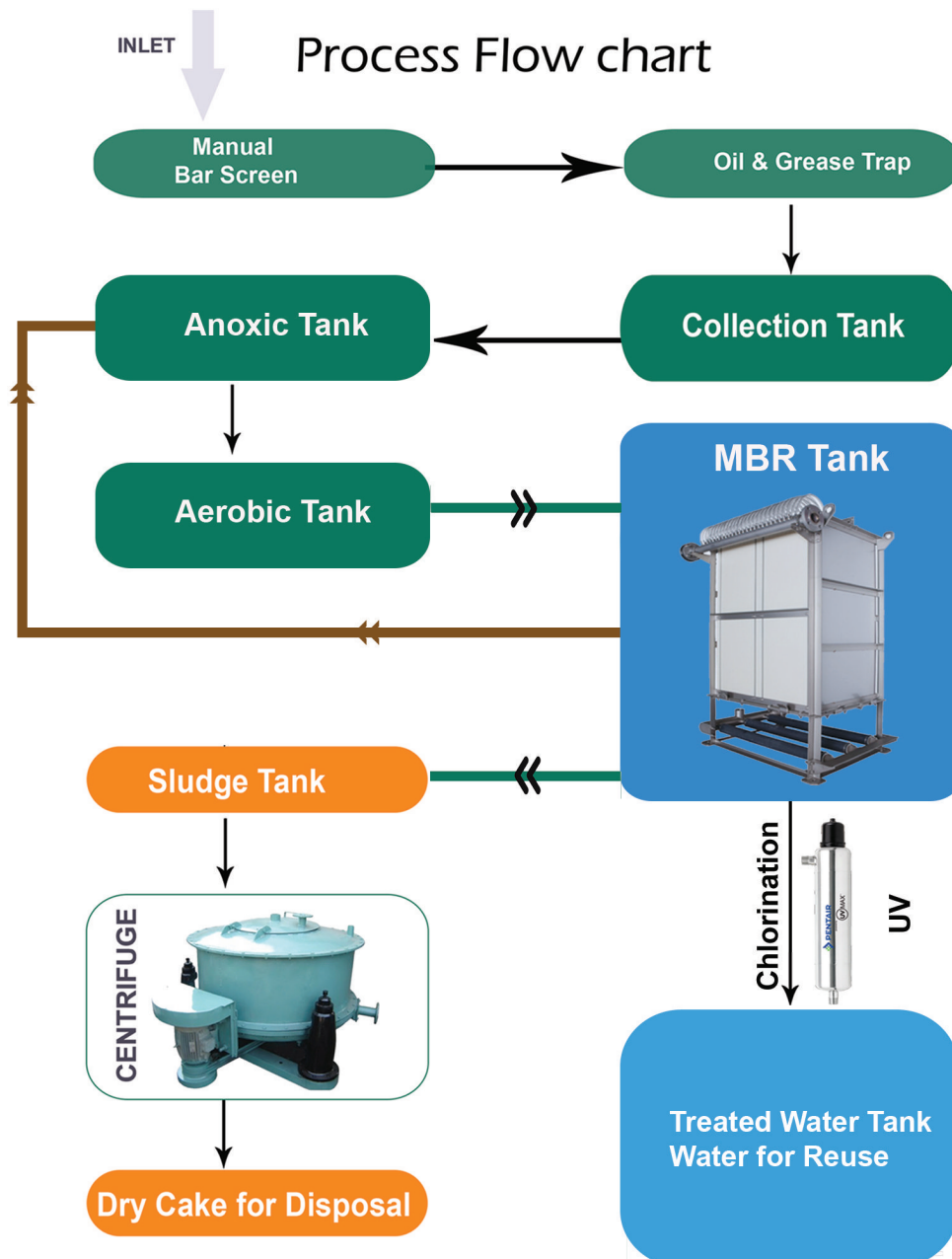
[https://www.modernstp.com/wp-content/uploads/2022/01/STP\\_Guidelines.pdf](https://www.modernstp.com/wp-content/uploads/2022/01/STP_Guidelines.pdf)

Karnataka State Pollution Control Board has provided new guidelines on 1-3-21 with stringent standards to set up Sewage Treatment Plants in Karnataka State. Other states are likely to come up with similar orders very soon.

KSPCB guidelines are specific that:

**MBR Technology with UV is the Preferred Technology for Sewage Treatment. Sludge has to be dewatered with vertical or horizontal decanter. Online monitoring is essential for 5 parameters.**

MBR system is a combination of biological wastewater treatment and highly efficient solid / liquid separation. Pre screened wastewater is treated biologically and pure water is extracted by submerged ultra filtration membrane while leaving activated sludge in the tank.





## Custom Designed MBR

- ✓ High quality treated water
- ✓ Suitable for non-potable uses
- ✓ Sand or carbon filter not needed
- ✓ Compact design
- ✓ Low sludge generation
- ✓ Fully Automatic
- ✓ 99.9999% Coliform removal
- ✓ Chlorine Tolerant Membranes
- ✓ Replaceable flat sheet membranes



### Typical Treated Water Quality



BOD<sub>5</sub> < 5  
COD < 30  
N<sub>total</sub> < 10  
P<sub>total</sub> < 0.5  
SS < 1

### Packaged MBR

- ✓ Packaged- Factory Made
- ✓ Plug and Play unit
- ✓ Minimum civil works at site
- ✓ Fully automatic
- ✓ Low daily maintenance
- ✓ Modular Design
- ✓ To Increase Capacity just add modules

## Packaged MBR STP

Available capacities 10 KLD, 25 KLD & 50 KLD

# Online Effluent Monitoring System (OEMS)

KSPCB / CPCB has mandated that every STP must have an online monitoring system for 5 parameters viz., Flow, pH, TSS, BOD & COD.

We offer Online Effluent Monitoring Systems for STP as per KSPCB / CPCB guidelines with real time data transmission to server. Minimum 85% uptime is expected on a monthly basis. As per PCB guidelines, BOD & COD analysers will be based on UV spectroscopy. Most of these equipments come with automatic cleaning system to ensure error free readings.

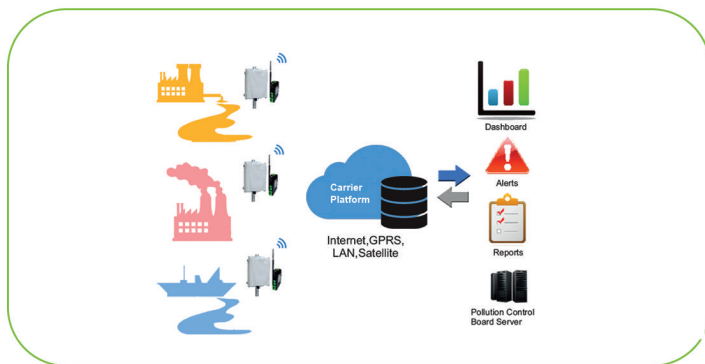
pH sensors will have ion selective glass electrode and electro-magnetic flow meter will be provided to measure the flow.



All the sensors will give inputs into a data logger specially designed to communicate to PCB server. Typically 10 to 12 months of data is stored at site in the logger.

## Benefits for you:

- ✓ Turnkey Solution from Concept to Execution
- ✓ High Quality Components for Longer Life
- ✓ Robust Designs
- ✓ Prompt After Sales Service
- ✓ 12 Months Comprehensive Warranty



## Indus Ecowater

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Venkata Lake View Layout  
Yelahanka, Bangalore - 560 064

### Works:

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Rampally, Hyderabad - 500 051

## Channel Partners