

WASTE WATER TREATMENT PLANTS

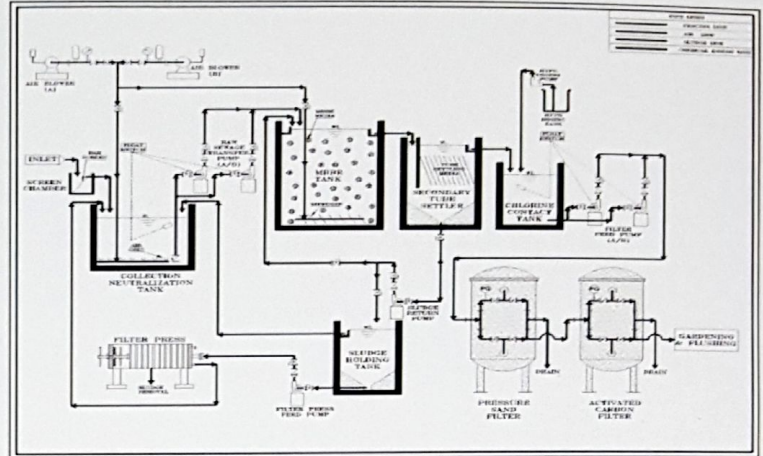


Aguapuro offers Turnkey Solution for Wastewater Treatment Plants as per local Pollution Control Board norms to make the wastewater reusable.

MBBR BASED WASTE WATER TREATMENT PLANT (STP/ETP)

Aguapuro offers MBBR based waste Water Treatment Plants ranging from 5000 lit./day to 1000000 lit./day and many more. We offer innovative solutions to treat waste water to achieve standard norms as per Pollution Control Board. Treated water can be reused for flushing and irrigation.

MBBR system produces following parameters
COD - less than 120 ppm,
BOD - less than 10 ppm



Advantages of MBBR:

- Compact design
- Robust bio film
- No clogging of bio-film carriers
- Low load on particle separation
- Expandable and Load responsive
- Easy to operate and control
- Minimum maintenance

System comprises of:

1. Equalization Tank

To equalize the variable hydraulic load

2. MBBR Tank

Moving Bed Bioreactor is filled with light weight PP media helps to increase surface area for biomass growth in aerobic condition. It helps in reducing footprints of aeration tank and increase removal efficiency of COD & BOD

3. Tube Settler

PVC tube settling media will be provided to enhance maximum settling surface area for solid- liquid separation.

4. Clarified Water Tank

To store clarified water with provision of disinfection

5. Filtration unit

Pressure sand filter for removal of suspended solids

Activated carbon filter for removal of colour, odour or any other inorganic impurity

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Suspended solids - less than 5 ppm.

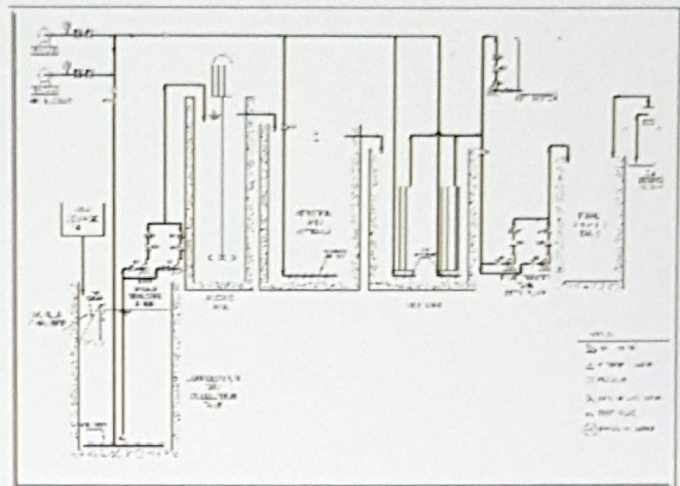
COD - less than 50 ppm

BOD - less than 10 ppm



Advantages of MBR:

- High efficiency in removal of COD, BOD and suspended solids
- Excellent water quality
- No need of tertiary treatment
- Smaller footprints
- Provides ease for extension for future increase in the waste water quantity.



System comprises of:

1. Coarse and Fine Screening

2. Equalization Tank

To equalize the variable hydraulic load

3. Anoxic Tank

4. Aeration Tank

Diffused aeration provides oxygen for biomass growth which helps in removal of COD and BOD.

5. MBR module

Membranes having PVDF material helps to separate sludge ensures much higher quality for treated water free from suspended solids.

For specific waste water Loads Aeration and Membrane Module Tank can be kept common to have minimum foot-prints and ease in operations

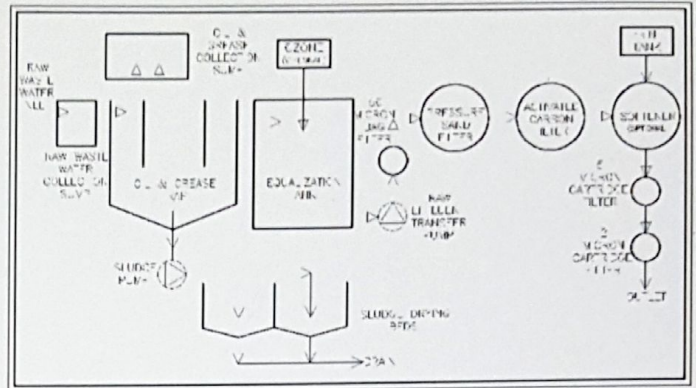
MBR TREATED WATER CAN BE TREATED WITH OZONATION AND OR REVERSE OSMOSIS TO MAKE IT POTABLE.

GREYWATER TREATMENT PLANT

Greywater is wastewater generated from wash hand basins, showers and baths, which can be recycled on-site for uses such as toilet flushing, landscape irrigation.

Benefits of using grey water;

- Reducing your potable water consumption
- Reducing the amount of sewage discharged to the ocean or rivers
- Reducing your water bills
- A healthier garden, especially during drought periods.



The easiest way to use grey water is by treating it with ozonation and filtration system. System comprises of;

1. Ozonation

Disinfection with ozone helps in minimizing microbial load.

2. Pressure Sand Filter

Remove suspended solids.

3. Activated Carbon Filter

Remove colour, odour and any other inorganic impurity.

4. Chlorine Dosing

For further disinfection and to avoid contamination



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