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# FLOATING RAFTER WETLAND





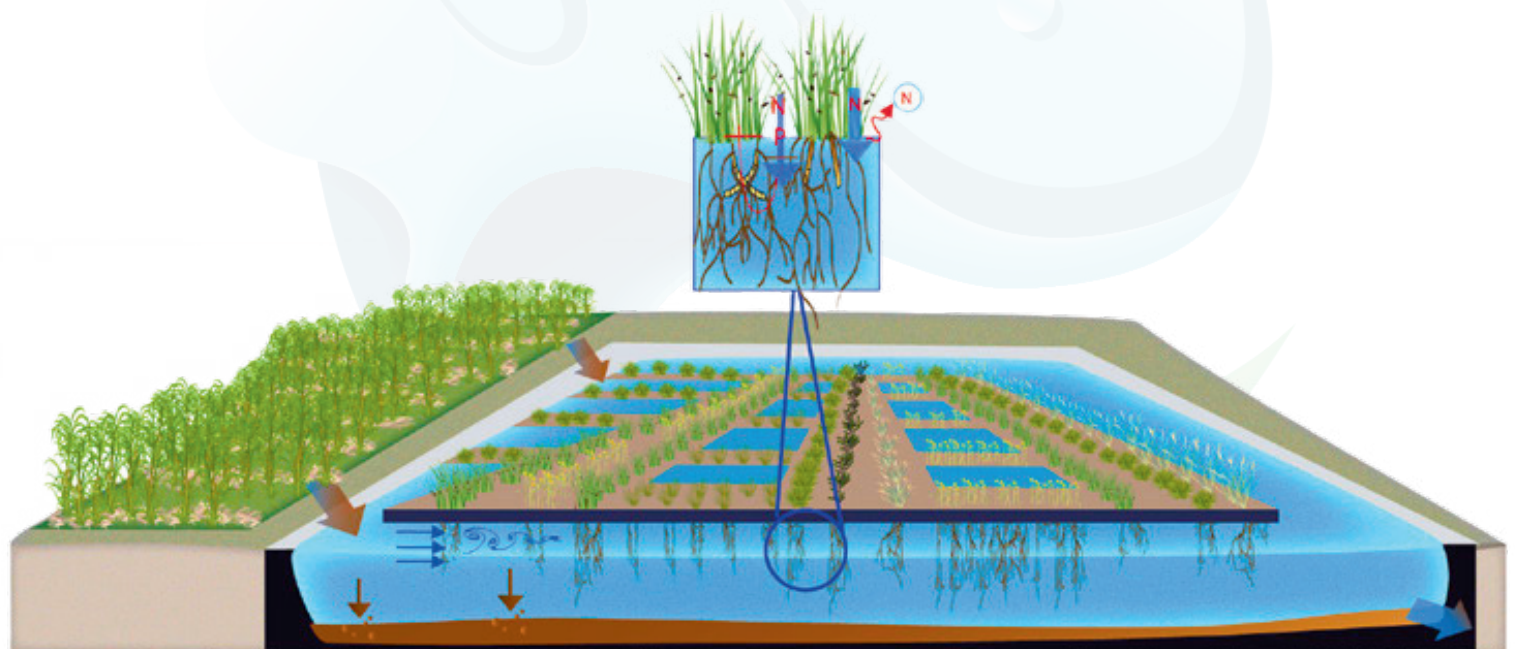


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Floating treatment media, or floating treatment wetlands, provide a vast surface area within the plant root zone. Within this root zone pollutant digesting microbes and bacteria bio remediate wastewater that is laden with nutrients, heavy metals and suspended solids

Urbanization, waste treatment, landscape changes, agriculture, and natural resource extraction cause runoff of nutrients, contaminants, petroleum products, and organic materials to freshwater lakes around the world. The natural ability of plants and microbes to absorb nutrients (such as phosphorus and nitrogen) and break down contaminants through biological processes known as bioremediation

Floating treatment wetlands (FTWs) or islands are small artificial platforms that allow these aquatic emergent plants to grow in water that is typically too deep for them. Their roots spread through the floating islands and down into the water creating dense columns of roots with lots of surface area.



Water run-off, carrying sediment particles (coarse and fine) and dissolved pollutants (nutrients and pesticides)

Deposition of coarse (and some fine) sediment particles

Vegetation (in particular the submerged root mat) provides a carbon source and a surface for biofilms to undertake denitrification. Removing nitrogen from the water column.

Processing of nutrients into wetland vegetation and biofilms

Water leaving treatment system with reduced sediment and nutrient loads



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## KEY FEATURES

- Anaerobic digestion
- Odour mitigation
- Nitrification processes
- Denitrification polishing
- pH stabilisation
- Reduction in bio-chemical oxygen demand
- Reduction in faecal coliforms
- Reduction in phosphorus

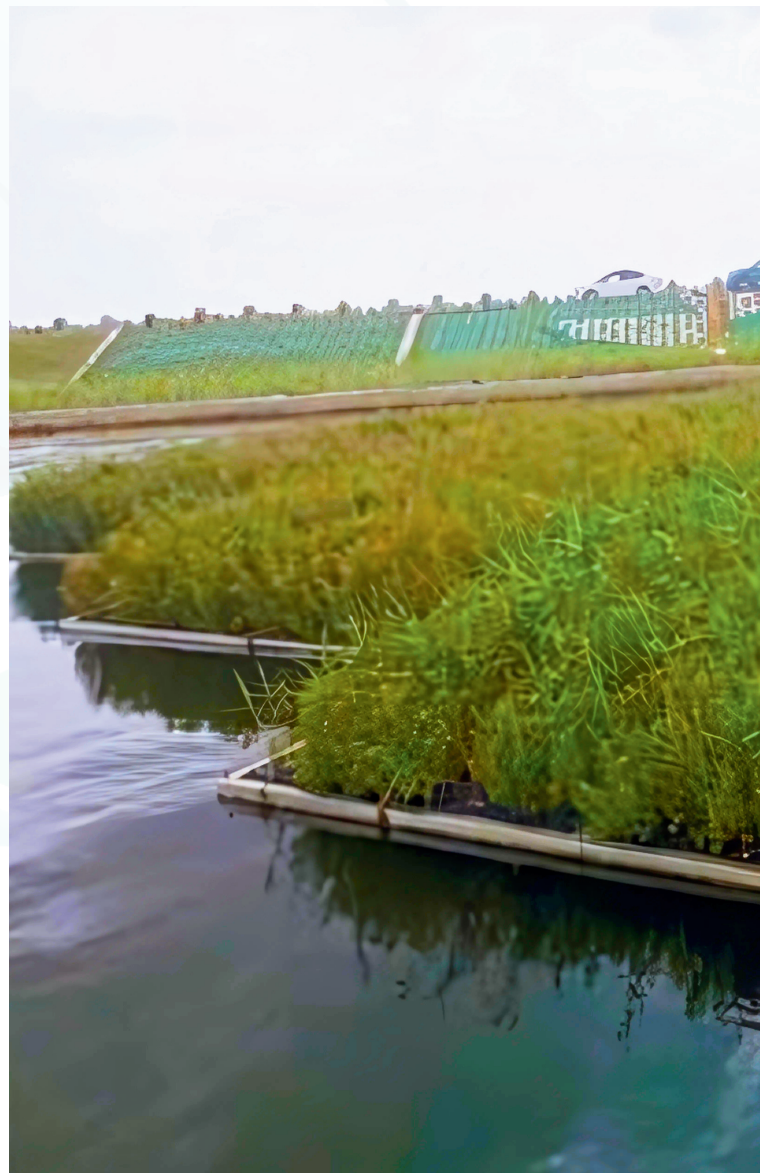
## ADVANTAGES

- Controlling aquatic weed and algae
- Sludge reduction and Habitat for wildlife
- Add a natural element to the water and Improved Water Quality
- Wetlands can remove pollutants through physical, chemical, and biological processes

## APPLICATIONS

- Drainage Engineering
- Aquaculture
- Drainage
- Water Management
- Irrigation and Water Management
- Stormwater

The plant species suitable for floating media are selected according to the reserve buoyancy required for the application. Generally, terrestrial species, such as wetland sedges, rushes and grasses, are the best option as they develop superior root structures within the water to provide for an increased surface area. However, many other planting types are also used. The recommended planting density is three to five plants per square metre.







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+91 9687693899



[www.euroteckindia.com](http://www.euroteckindia.com)



[marketing@euroteckindia.com](mailto:marketing@euroteckindia.com)



**Euroteck Environmental Pvt.Ltd.**  
504, Modern Profound Tech Park,  
Opp.Ramalayam, White Field Road,  
Kondapur, Hyderabad,  
Telangana, India - 500084



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