

MBR CONTAINER SEWAGE PLANT

DURRAT AL BAHREIN, BAHREIN

Durrat al Bahrain development are the largest artificial islands in the Kingdom of Bahrain with an area of about 20 million square meters.

For the civil work and the first residents the concept was to transfer the sewage into clean water, usable for construction works and irrigation of green area.

MENA WATER FZC got the contract to build up the treatment plant. Basis is the established package modular plant with MBR technology.

The plant provides bacteria free clean water at smallest foot print area.

Pure Water from Sewage

The plant is prefabricated as

containerized system made of stainless steel. All components are of German origin. The plant is designed as modular, mobile system which is capable to be extended and relocated on demand.

The 1st phase started 2008 for 300 m^{3}/d , in 2009 it was extended for further 600 m³/d and since August 2014 works for further extension to 2000 m³/d were completed.





PROJECT DATA

- Capacity 2000 m³/day build in 3 stages
- Tanker Discharge Station
- Fine Screening Pre-Treatment
- Buffer & Treated Water Tanks •
- MBR Container Plants
- Sludge Dewatering
- Odor Control







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Application Report Municipal Sewage





MBR Container Sewage Plant

Pre Treatment



Odor Control

Sludge Dewatering



Air Blowers for Aeration and MBR Scouring



The Final Effluent: Clean Water for Irrigation





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