

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.

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 m³/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.

**Pure Water
from Sewage**



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





MBR Container Sewage Plant



Pre Treatment



Odor Control



Sludge Dewatering



Air Blowers for Aeration and MBR Scouring



The Final Effluent: Clean Water for Irrigation