



PALM JUMEIRAH MBR DUBAI

- **END USER:**
Palm Water - Dubai
- **Main Contractor:**
Metito Overseas Ltd
- **INDUSTRY:**
Sewage Treatment
Plant
- **DATE OF
CONTRACT AWARD:**
2004
- **CONTRACT
COMPLETION:**
2007



INTRODUCTION:

ACWA Emirates LLC has been sub-contracted in 2004 with the Design of sewage treatment plant utilizing MBR technology this include Supply of bioreactor membrane equipment, and Supervision of installation, testing and commissioning of the biological mbr system at the “ Palm Jumeirah “ in Dubai, Plant capacity with 21,700 m³/day peak daily flow.

DESCRIPTION:

The membrane bioreactor plant is to be situated in the new sewage station built for this purpose, below ground level.

The Influent of raw sewage is pre-screened to less than 3 mm bi-directionally via drum screens, passes through grit classifier, equalization tanks, and is then transferred by forwarding pumps to the process section utilizing anoxic tank, aeration tank and Membrane bioreactor Tank. The membrane bioreactor is designed to treat:-

Plant Peak Daily Flow : 21,700 m³/day and Peak Hourly Flow; 1875 m³/hr.

Main plant items:

- Fine Screen (3mm drum) and Grit Removal.
- Equalization tanks and Forwarding Pumps.
- Anoxic, Aeration and Membrane Tanks.
- Membrane Units
- Sludge Treatment System.
- Membrane/Aeration Blowers.
- Permeate Tank.
- Chemical Cleaning Make Up System
- incl. integral pumps, etc
- MCC , PLC and SCADA .
- Odour Control System.



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