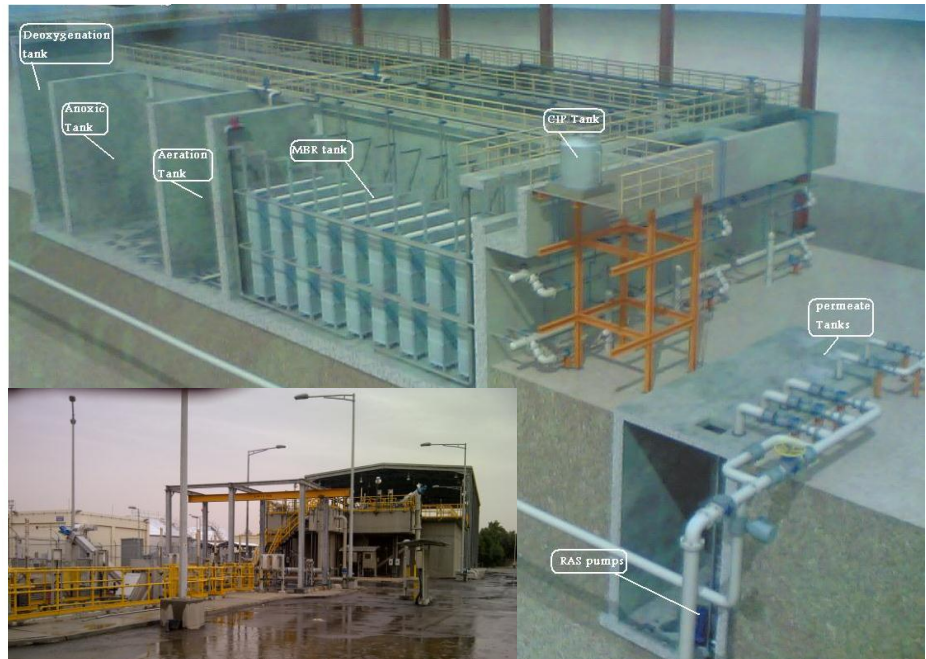




# UPGRADE SEWAGE TREATMENT PLANT at SAUDI ARAMCO UDHALIYAH

- **END USER:**  
Saudi Aramco
- **CLIENT:**  
Alsuwaidi Industrial Services
- **INDUSTRY:**  
Waste Water Treatment
- **DATE OF CONTRACT AWARD:**  
2008
- **CONTRACT COMPLETION:**  
2010



## INTRODUCTION:

ACWA Emirates was awarded a contract to Design, Build, Install and Commission a MBR Waste Water Treatment Plant in Udhaliyah for Saudi Aramco.

## DESCRIPTION:

The plant is designed to treat an average flow of 3,520 m<sup>3</sup>/day of sewage. The sewage is equally distributed over three parallel Biological Streams, each capable of handling 50% of the design average flow, providing a total plant capacity of 5,280 m<sup>3</sup>/day. The plant utilizes the globally successful Kubota Membrane System, comprising of Flat Sheet Membranes, which produce a very high quality effluent that could be re-used for unrestricted irrigation or further treatment processes like R.O. for district cooling.

## SCOPE OF SUPPLY:

The plant comprises of:

- Inlet works
  - Vortex Type Grit Removal System
  - Grit Classifier
  - 3mm Fine Screen Compactor
- Anoxic and Aeration Tanks
- MEMTREAT® Membrane Bio-reactor
- Air Blowers, Diffusers and Submersible Mixers
- Permeate Tank and Pumping Facility
- Effluent Disinfection and pH Correction System
- PLC & SCADA System



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