Marafiq Waste Water Treatment Plant, Jubail - KSA

MARAFIQ
It is the utility lifeline to the industrial cities of Jubail and Yanbu. These two cities are a beacon of light on the Kingdom’s journey of national economic development and privatisation. In a relatively short space of time, Marafiq has succeeded admirably in laying a solid foundation as a private enterprise with a Customer-focused approach.

Jubail Wastewater Treatment and Disposal
The purpose of Marafiq industrial treatment systems is to conserve water by making maximum use of desalinated water in a complete cycle of use, treatment and reuse.

Industrial effluent is collected and treated, which is pumped back to the industrial areas for reuse in fire-fighting systems and other industrial applications.

The Industrial Wastewater Treatment Plant is designed to treat the incoming industrial wastewater generated from Industries located at Jubail Industrial City.

MENA-Water
MENA-Water provided the complete design, supply, installation and commissioning startup for the complete Inlet works for Marafiq Jubail IWWTP with plant capacity of 60,000 m³/day.

Screening, screenings conveyor & compactor, manual screen, longitudinal grit removal and grit washing system, grease removal, odor control system, automated penstock & measuring Instruments. The complete plant is operated by Quantum PLC & SCADA.

Equipment | Application
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Multi Rake Screen | screenings removal
Manual Screen | bypass screening removal
Launder Channel | screening transport
Screening Channel | washing and compaction
Grit Trap | sand removal
Grit Washer | sand washing & classifying
Grease Trap | grease & FOG removal
Penstocks & Stoplog | flow control & regulation
Air Blowers | grit trap aeration
Activated Carbon Filter | odor control system
Instrumentation | flow, level (ultrasonic), pH, VOC, temperature, conductivity.
MCC & Quantum PLC | complete control with SCADA
Application Report
Pre-Treatment

2 x Multi Rake Screen & Manual Screen
1 x Screenings Washing Conveyor

2 x Longitudinal Grit Trap & Grease Trap
2 x Blower for Aeration (1 duty/1 standby)

2 x Grit Washer with Degasing Unit
Installation of Multi Rake Screen in Channel