

AL AIN POULTRY EFFLUENT TREATMENT PLANT

AL YAHAR, AL AIN - UAE

Chicken Slaughtering & Processing Factory

The Al Ain Poultry Farm is not only a leading producer of chicken meat in UAE, but now also a pioneer in

environmental protection. MENA-Water built the most modern plant for the use of highly contaminated wastewater, based on the MBR



technology. The entire wastewater operation will now be prepared by a multistage industrial water treatment plant for use as irrigation water.

Industrial Wastewater Treatment

The existing, outdated cleaning system for the entire amount of processing of slaughter, processing, packaging, equipment cleaning and disinfection has been modernized and extended from 240 m³/d to 400 m³/d.

Scope and Realization

In February 2013 MENA-Water got the contract for the complete design, construction and commissioning within 8 months. As scheduled the plant was built and successfully put into operation.

The complete plant is operated by PLC and remote monitoring. Now the effluent water can be used for irrigation purpose.



Equipment	Application
Screw Screen	> 3mm particle removal
Lifting Station	Effluent transfer
Fine Screen	> 2mm particle removal
Salsness Micro Screen	Micro screening to 350 micron
Pipe Flocculation	Chemical addition
Dissolved Air Floatation	COD & TSS removal
Aeration Tank No. 1 & 2	Biological treatment
MBR Modules	Ultra filtration
Treated Water Holding Tank	Storage of reclaimed & perishable.
Belt Filter Press	Sludge dewatering
Field Instruments	for flow, level (hydrostatic), TSS, DO pressure
MCC Panel IP 54 Form 2, PLC/HMI	complete treatment process auto controlled





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Micron Screen

Outlet of Micron Screen



Dissolved Air Flotation

Membrane Bio Reactor



Sludge Dewatering: Outlet of Belt Screen



Plant Control

Steps of Treatment and Clean Outlet



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