

# Industrial Application - Containerised MBR System for Waste Water Treatment in Promasidor Nigeria Limited

## Promasidor Nigeria Limited

Promasidor Nigeria Limited is a consumer packaged goods company headquartered in Isolo, Lagos. It is a subsidiary of South Africa based Promasidor Holdings. The firm's major brands include Cowbell milk, Loya milk, Sunvita cereal, Onga seasoning and Top Tea beverages. **MENA-Water** built the containerised MBR system to treat the wastewater generator from the milk factory to obtain the discharge standards.

## Containerised MBR System

The existing Shannon waste water treatment system for the entire amount of waste water from milk factory has been modernized and extended to 300 m<sup>3</sup>/d.

## Scope and Realization

In July'19 **MENA-Water** achieved the complete contract for the design, engineering, procurement, construct and deliver the complete plant within 14 weeks. As per the schedule the plant was delivered and set in operation around Aug'20 after the COVID-19 restrictions in Nigeria.

The complete plant is operated by PLC and remote monitoring. Now the effluent water is matching the local discharge standards of Nigeria.



## Project Data

- Capacity 300 m<sup>3</sup>/day (Model: MW-MR300-I)
- MBR Container Package Plant (Plug and Play)
- Rotary Drum Screen at the Inlet of Grit Tank
- Inlet Strainer for Aeration & MBR Tanks
- Mixer and Diffusers for Aeration Tank
- Air Blowers for Biological Aeration & MBR Scouring
- Membrane Filtration Modules
- Chemical Dosing System
- Control Panel with Integrated PLC and Touch Panel for Automatic Operation of the Plant
- Drain Bag System - Sludge Dewatering System



Containerised MBR Package Plant



Drain Bag System



Machine Room