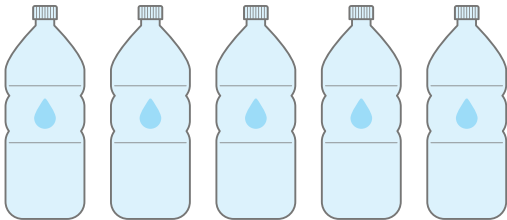
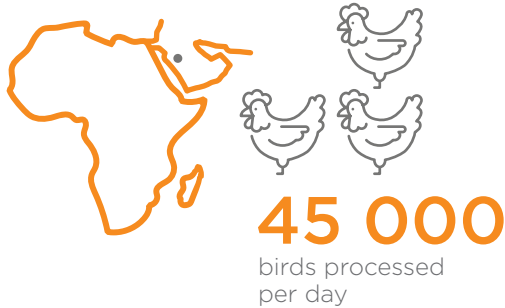


REDUCING REJECT WATER AND AVOIDING ENVIRONMENTAL VIOLATIONS

Al Rawdah Farms

OUR CLIENT

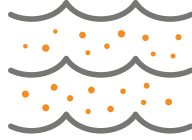
- Leading producer of poultry products In the UAE and export market



3 000M³

of HBRO borehole water used daily

THE CHALLENGE



- HBRO generates high reject volumes with high salinity
- Reject water cannot be discharged into existing network
- Recycling solution preferred over discharge into existing wells



- Greater need for fresh water during summer
- Limited available space

THE OUTCOME



PROXA worked closely with the client at an early stage to develop an optimum solution in terms of space, cost and time

SUCCESS OUTCOMES

- ✓ No additional space required
- ✓ Reused product water in the farm
- ✓ Environmentally friendly solution

“

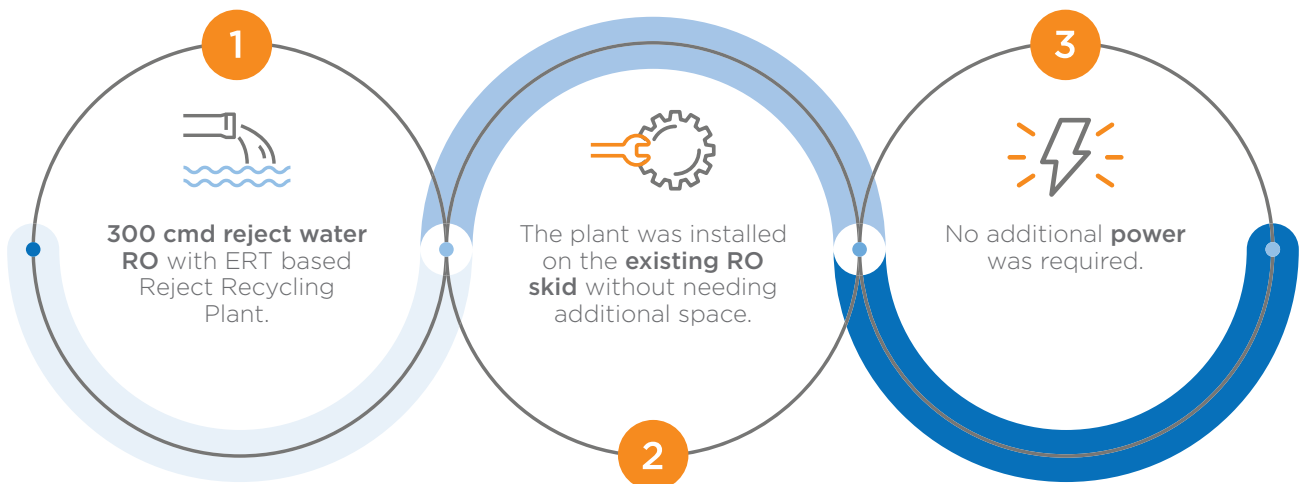
“We would like to recommend PROXA for rendering their quality service in design, supply, installation and commissioning of 25 M³ /hr RO water recycling plant. We would recommend PROXA for any water treatment related projects in the future.

– Emirates National Food Co.,LLC.”

”

HOW PROXA ADDED VALUE

We took a **three-phased approach** to implement a cost-effective and time-sensitive solution.



A rate of 45 to 50% of RO reject water is recovered and reused in the farm. By reducing the reject water volumes, it could be safely disposed into the deep wells, minimising the need to release any excess into the environment.

FEED WATER



RO reject water with high salinity

PRODUCT WATER



11 to 12 m³/hr

CAPACITY & UNIT PROCESSES

RO Reject Water with the flow rate of 25 m³/hr with about 25 bar pressure is boosted via ERT (Energy Recovery Turbine) before feeding into stage 3. 300 m³/day of RO product water is achieved without using any costly electricity.

“The RO Reject recycling plant has significantly reduced the challenges on reject water disposal costs and solving the additional requirements of fresh water in summer over 300 m³/day. This has been achieved without any additional power and space requirements.”

- Peggy Medawar, General Manager

Contact us to learn how we can promote water security for your company.

proxawater.com