Case Reference IP-1078 – Treating Dahra H_2S Water for Drinking

ZULAL Oil and Water Services

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EPC Water Desalination RO Plant with ReidSteel Building for Oil Field

Client: **Waha Oil Company**

Location: **Dahra Field**

Equipment: **Sour Water RO Desalination Plant**

Design: **600m³/day Permeate from Deep Well water with High Salinity (20000ppm TDS & 50ppm H_2S)**

Application: **Drinking**

Year: **2025 (Ongoing)**

Scope:

- **Engineering & Design** – Technical drawings, compliance with **RO system standards**, risk assessments.
- **Procurement & Fabrication** – H_2S Removal Degasser, Ultrafiltration units, RO membranes, pumps, dosing systems, QA/QC inspections.
- **Civil Works** – Site prep, foundation construction, drainage, and structural supports.
- **RO System Installation** – Assembly of Degasser & H_2S Removal System, pre-treatment (Ultrafiltration UF membranes, softeners, carbon filters), RO membranes, and post-treatment units.
- **Instrumentation & Control** – Automatic Control, integration of SCADA systems, monitoring sensors, and calibration of flow/pressure transmitters.
- **Prefabricated Building Erection** – Installation of ReidSteel UK structure, including ventilation, electrical, and safety systems.
- **Commissioning & Handover** – Performance testing, water quality validation, and final documentation.

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