

CASE STUDIES · CREDENTIALS

WATER TREATMENT PLANT

Power Plant · Transmission and Distribution · Oil & Gas · Water Treatment · Special Purpose Machines

**ENGINEERING
DESIGN**

Buildable by Design — Modular Water Treatment Skids

Engineered Around Client Capabilities

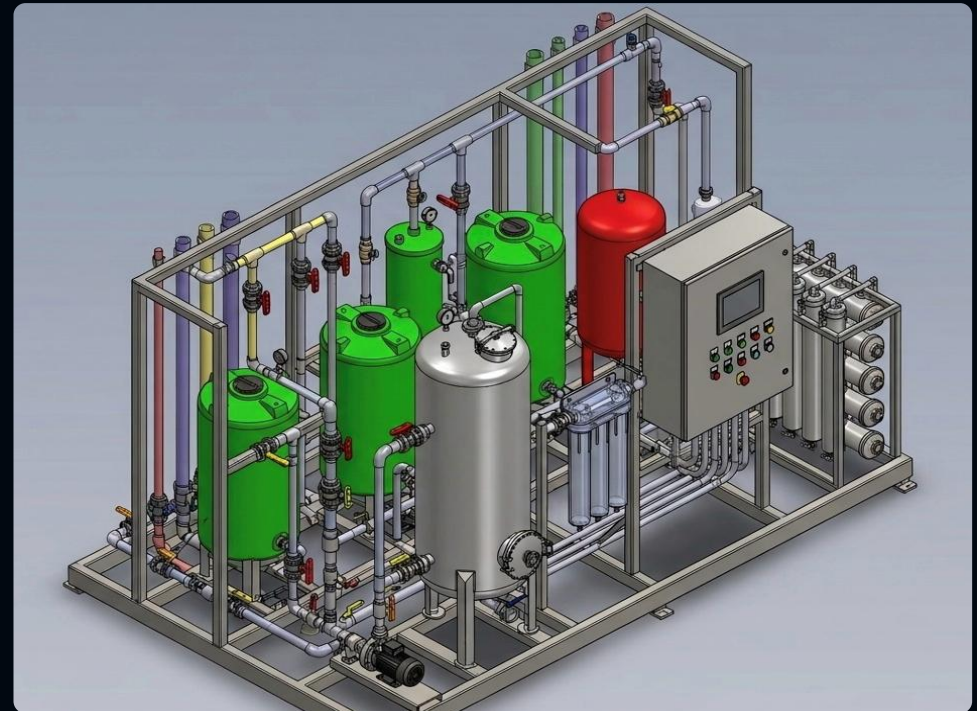
Detail engineering for modular water treatment systems & skid packages - USA, Client : Confidential

SCOPE

Detail design & fabrication support for self-contained, transportable water treatment units — pump skids, RO skids, chemical dosing, and mobile treatment packages.

PIPING & MECHANICAL

- i. P&ID, 3D modelling, piping spool & frame drawings, and BOM
- ii. 30/60/90% IFP & IFC packages, procurement support, vendor document review
- iii. Data-sheets, catalogues, O&M manuals, and inspection test plans



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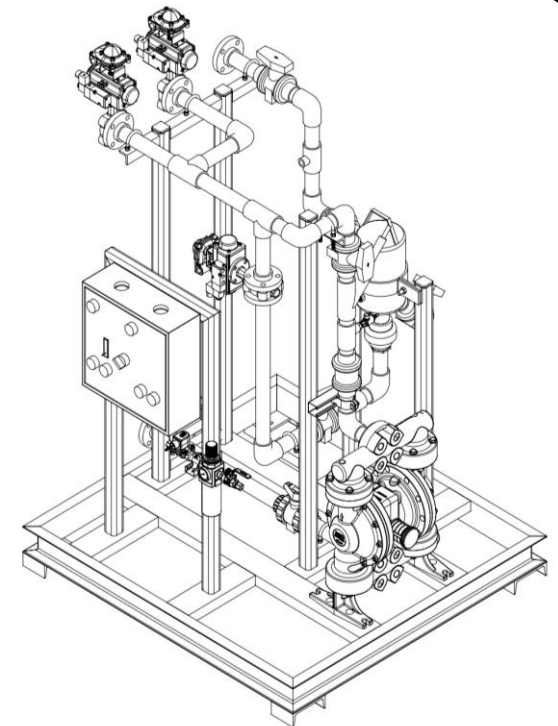
WHAT WE DID DIFFERENTLY

CHALLENGES

- Design had to work within the client's existing fabrication capabilities — not around them
- Multiple sub-systems and piping networks needed to fit a compact, transportable envelope
- System had to serve varying water sources and site conditions without triggering redesigns

SOLUTIONS

- Engineered skid layout around the client's shop floor — no new tooling, no new capital spend
- Optimised piping and component placement for cost-efficient fabrication and easy maintenance
- Delivered a single configurable base design adaptable to different sources, flow rates, and sites
- Full preliminary design completed in 2 months — giving the client early cost visibility and faster time-to-build



Let's engineer your next project together.

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