

Oil & Gas Metering Skid

(Detailing, 3D Modeling, Structural Design)

Key Features

Technology:

CADWorx Plant Professional

STAAD Pro

ProSteel

AutoCAD

Navisworks

Duration:

The project was completed in 3 months

Deliverables:

1. Final 3D model
2. Weekly updates and latest model for review
3. Structural stress report-PDF format
4. Piping isometric design
5. Skid and structural drawings

The Client

A leading designer and manufacturer of bespoke metering, hydraulic control systems and produced water treatment solution.

The Business Need

The client required Detailing, 3D Modelling & Structural Design for an Oil & Gas Metering Skid. The project underwent many project execution cycles and needed to be compliant as per various ASME B31.3, BS 5950 and other international codes and standards.

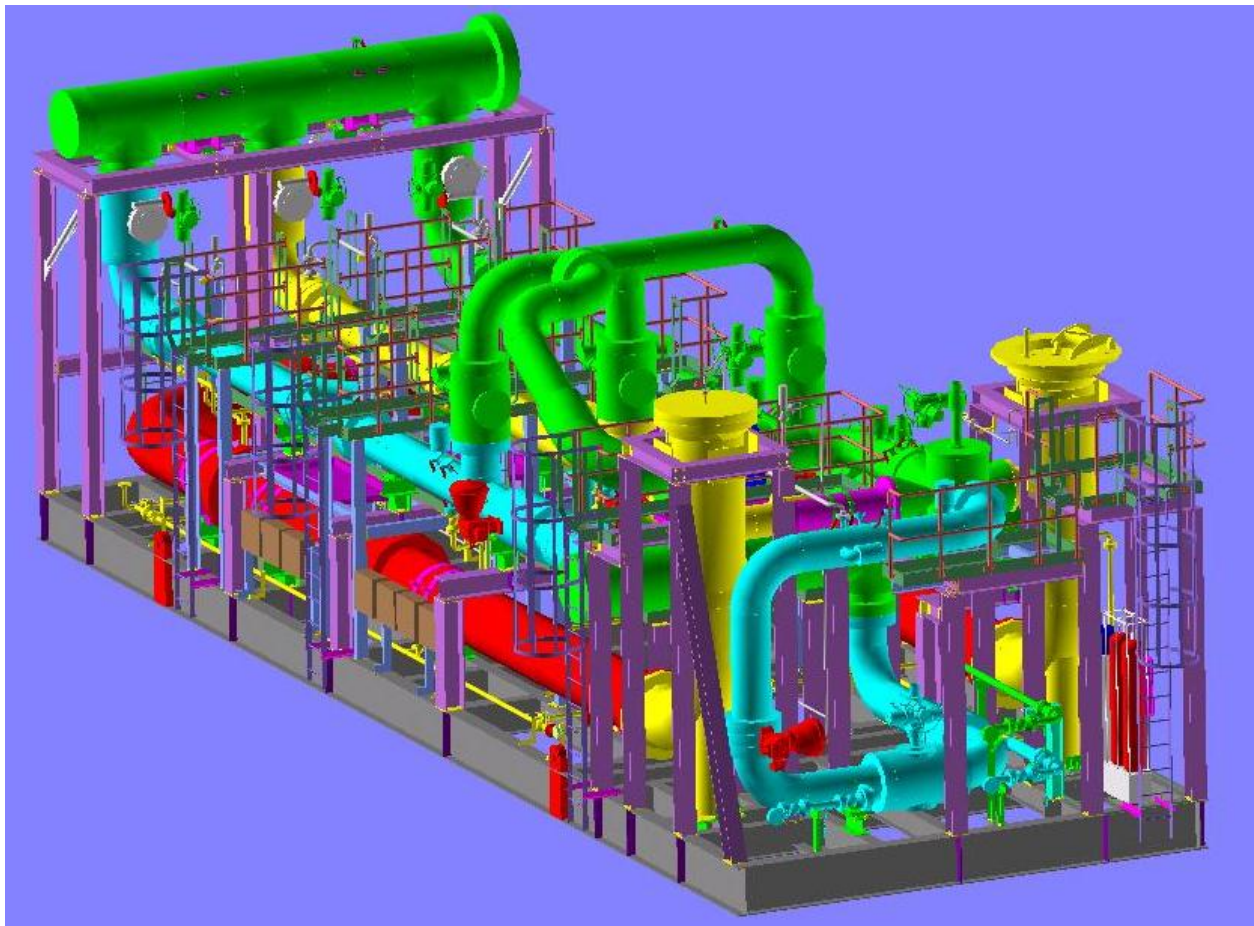
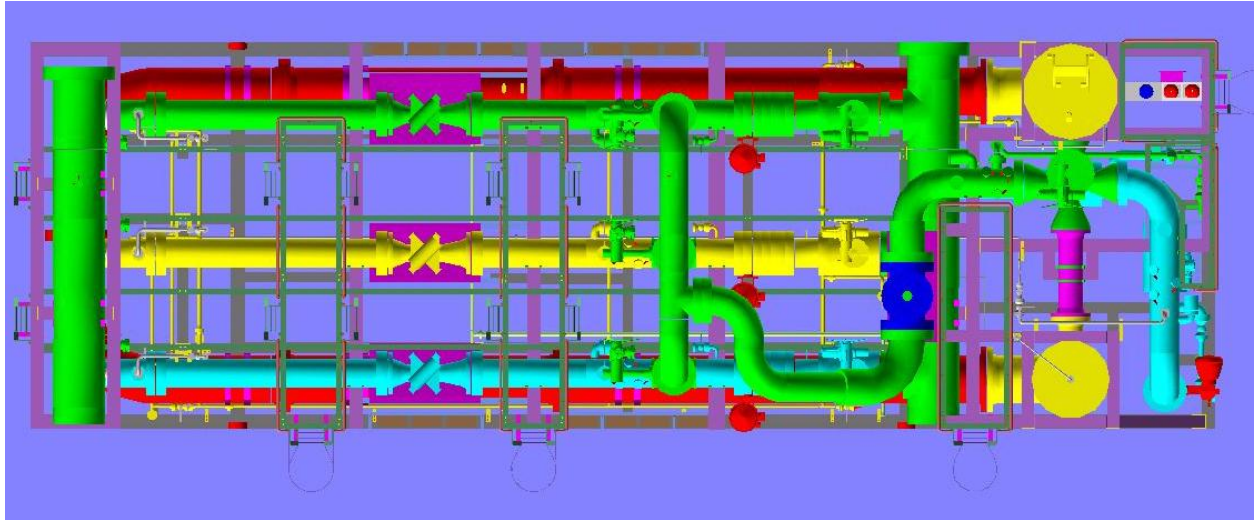
Rishabh's Solution

Rishabh's Engineering team completed the project within 3 months.

Along with the International Codes and Standards used for Calculations and Design, ASME B 31.3 American Society of Mechanical Engineers Process Piping Code & BS 5950 codes and standards were followed as well.

- Reviewed preliminary data (P&ID, layout, data sheet & other data)
- Generated preliminary skid based on the available standard dimensions
- Structural design in line with project specification & international codes with a view to optimize the metering sizes & weights
- Lifting calculations, drawing, details of slings, chains shackles, tensioners & parts list for lifting beam
- Provided detailed drawings of all skid base, structural supports, pipe supports, ladders, walkways, Junction box supports, grating, handrail with holds indicated where required
- Provided isometrics of all mainline & small-bore lines with holds

- Checked the model against currently available bought outs & updating the model & drawings
- Provided final BOM for both the piping & steel works
- Filled in of weld numbering sheet & assigning weld numbers to isometrics
- Provided all drawings to end client for reviewing models in native format upon request



Technology Used

- 3D Modeling (Piping & Structural) – CADWorx Plant Professional
- Structural Design and Analysis - STAAD Pro, ProSteel
- 2D Drawings – AutoCAD
- Review File to be delivered in .NWD (Navisworks)

Key Deliverables

- Final 3D model
- Weekly updates and latest model for review
- Structural stress report-PDF format
- Piping isometric design
- Skid and structural drawings

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More information about Rishabh Engineering, please visit:

www.rishabheng.com | www.rishabhsoft.com | www.rishabhbpo.com

About Rishabh Engineering

Rishabh Engineering provides multidisciplinary engineering support services to EPC companies in industries like Oil and Gas, Petrochemical, Power and Water treatment. Our parent company, Rishabh Software is a CMMI level-3, ISO9001 and ISO27001 company that provides services in Software Development, Business Process Outsourcing (BPO) and Engineering Services Outsourcing (ESO) to clients globally. Rishabh has offices in USA, UK and India with their main delivery center in Vadodara, India.