

Detailed Engineering & 3D Modeling of Oil & Gas Metering Skid

(CADWorx, Navisworks, CAESAR II, STAAD Pro)

Key Features

Technology:

Intergraph CADWorx
AutoCAD
Navisworks
STAAD Pro
CAESAR II

Duration:

The project was completed in 3 months

Deliverables:

1. General Arrangement Drawings
2. Final 3D Model
3. Stress Report
4. Isometric Drawings
5. Pipe Support Details
6. MTO for Piping & Structure
7. Weight & C.O.G Calculations
8. Fabrication Drawings

The Client

A specialized engineering contractor in design, construction and commissioning of field-proven innovative solutions for Custody Transfer Flow Measurement in the Oil & Gas industry. Offshore Metering Systems, Pipeline Metering Systems and Metering Control Systems are their main focus areas.

The Business Need

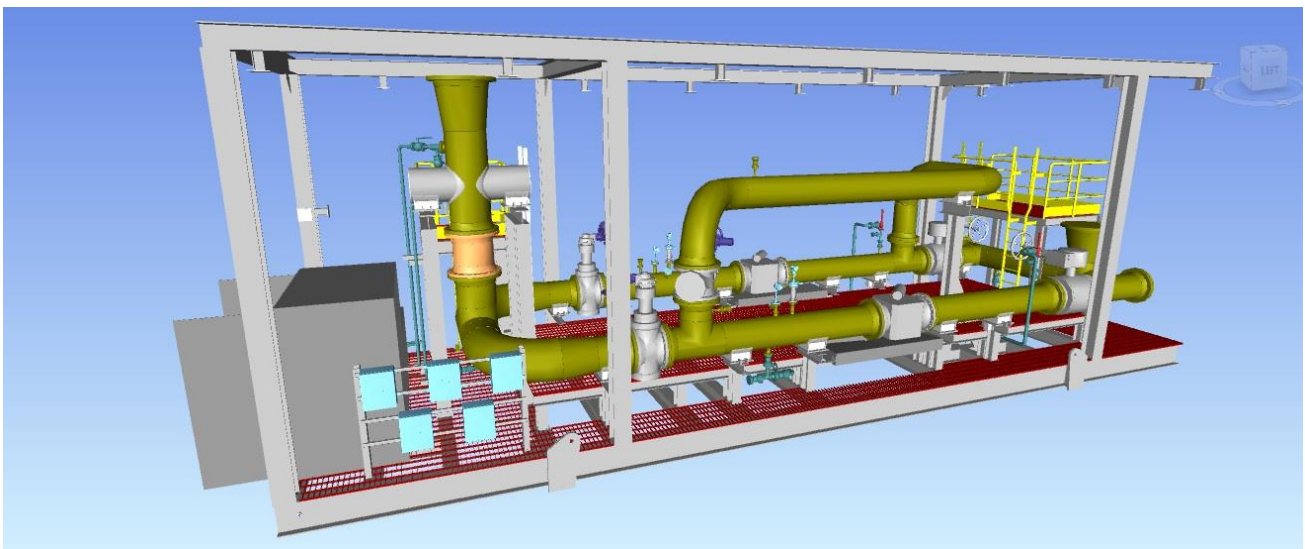
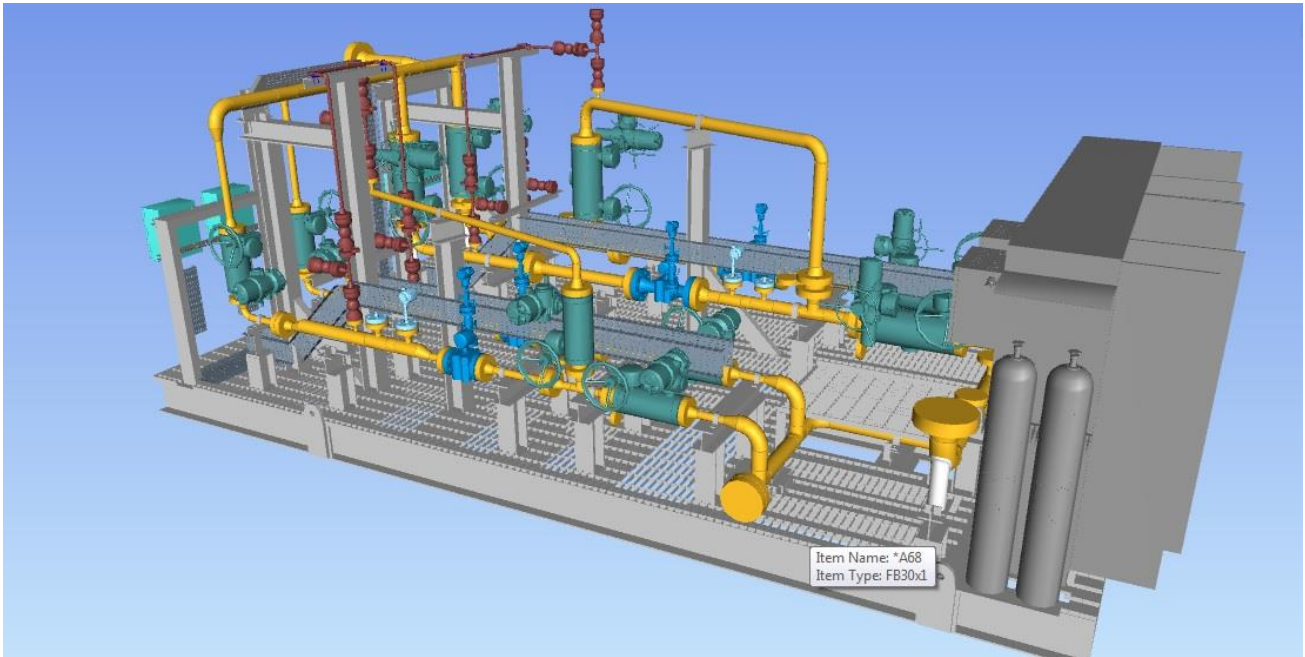
The client required detail engineering for Oil & Gas Metering Skid of FPSO Catcher (Floating Production Storage & Offloading) including shop drawings for piping, structural steel, secondary steel platforms, ladders, cable tray supports with

- 3D Model in CADWorx
- GA Drawings
- Pipe Stress Analysis Report
- Structural Steel Calculations including Anchor/Foundation Loads
- Piping Fabrications Drawings
- Structural Fabrications Drawings
- Lifting Lug Details
- Weld Preparation Details On Structure
- MTO for Structure (all structural steel elements including grating)
- MTO for Piping Materials (including bolts, nuts, gaskets)
- Weight and C.O.G. Calculations
- Lifting Calculations and Lifting Plan (drawing)
- Mono Rail Calculations

Rishabh's Solution

Rishabh's Engineering delivered detailed engineering of FPSO in 3 months with a team of 9 members including 1 team leader.

ASME B31.3 codes and standards were followed to ensure higher quality in delivering detailed engineering.



Technology Used

- 3D Modeling – Intergraph CADWorx
- 2D Drawings – AutoCAD
- Review Software – Navisworks
- Pipe Stress Analysis – CAESAR II
- Structural Analysis – STAAD Pro

Key Deliverables

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- Pipe Support Details
- MTO for Piping & Structure
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- Fabrication Drawings

Contact Details

US Ph : +1-201-484-7302, 1-877-RISHABH (747-4224)

UK Ph : +44-0207 993 8162

Email : sales@rishabheng.com

Twitter : www.twitter.com/RishabhEng

Linkedin : www.linkedin.com/company/rishabh-engineering-services

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.