

Piping 3D Modeling of Compressor Station

Key Features

Technology:

Intergraph CADWorx 2016

Autodesk AutoCAD 2016

Navisworks Manage 2016

Duration:

The project was completed in 10 weeks

Deliverables:

1. Overall Site Layout
2. Equipment Layout
3. Piping Layout
4. Pipe Support Location Drawings
5. Bill of Materials
6. Isometrics
7. 3D Model
8. Piping General Arrangement Drawings
9. Updated P&IDs

The Client

US based privately held Engineering, Procurement, Construction & Project Management company specializing in the engineering and construction of heavy industrial facilities and pipelines. The company has extensive experience with oil terminals.

The Business Need

The client required Rishabh Engineering to perform piping 3D modeling of compressor station with capacity of 50 MMSCFD along with support arrangement, equipment modeling, civil & structural modeling and piping plan drawings.

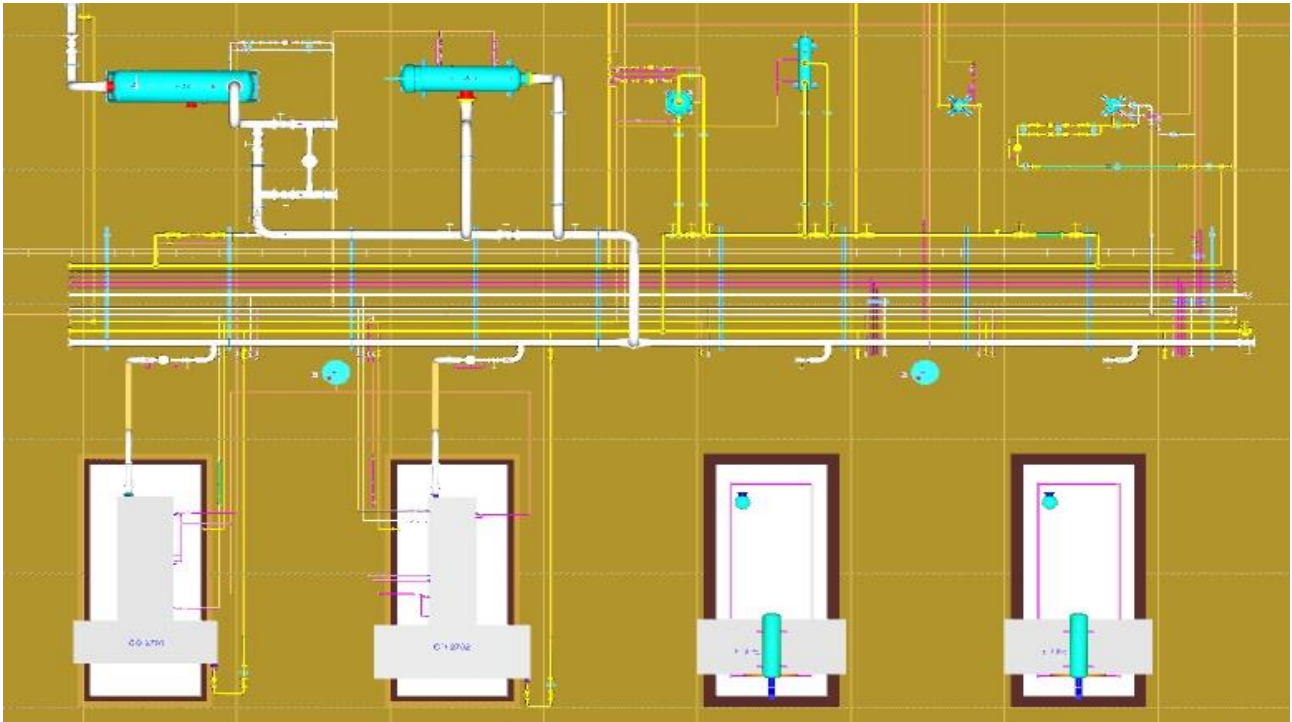
Rishabh's Solution

Rishabh Engineering was appointed to deliver the final Piping 3D model compressor station and the associated deliverables in a span of 10 weeks by a team of 7 members (including 1 Team Leader).

The project included modeling of the following equipments:

- 2 Receivers
- 1 Slug Catcher
- 3 Compressors + 1 Future compressor
- 1 Filter Separator
- 1 Two-Phase High Pressure Separator
- 1 Discharge Horizontal filter
- 1 Glycol Absorber/Scrubber
- 1 Gas/Glycol Exchanger
- 1 Glycol after Scrubber

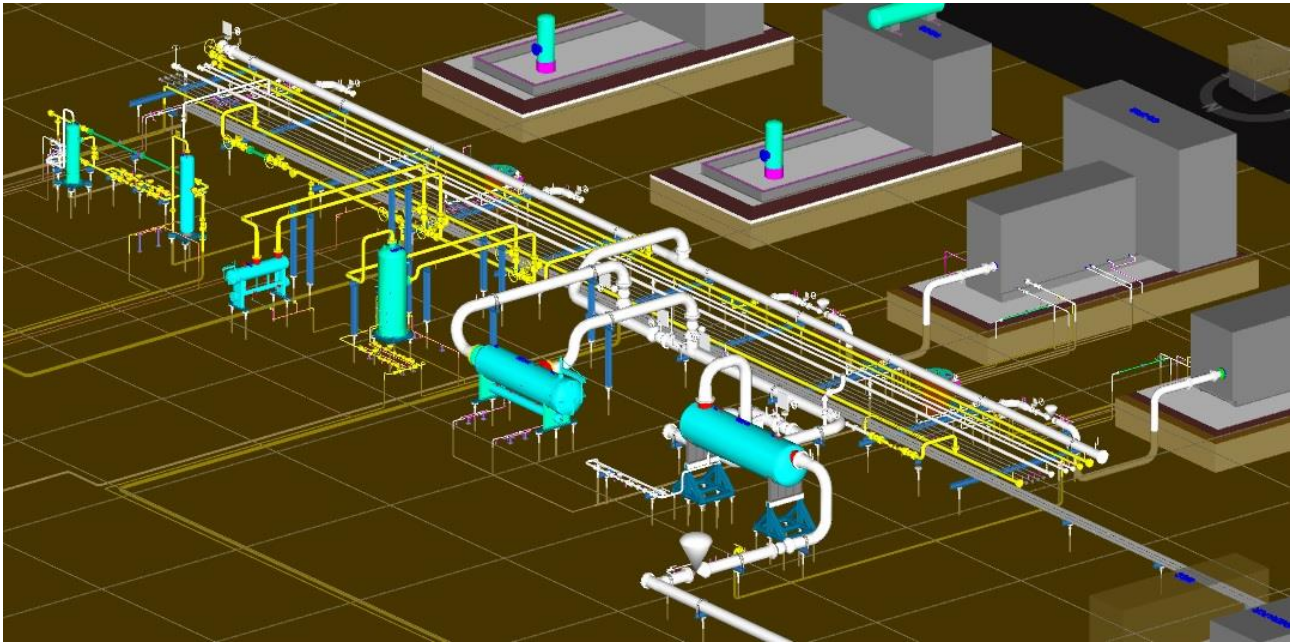
One major challenge that the team came across was that the General Arrangement drawings were not received. Rishabh Engineering modeled the equipment from data sheets. In the IFC stage, when GA drawings were received the team updated the model within short duration and made appropriate changes in the layout. The delivery of the entire project was on defined schedule.



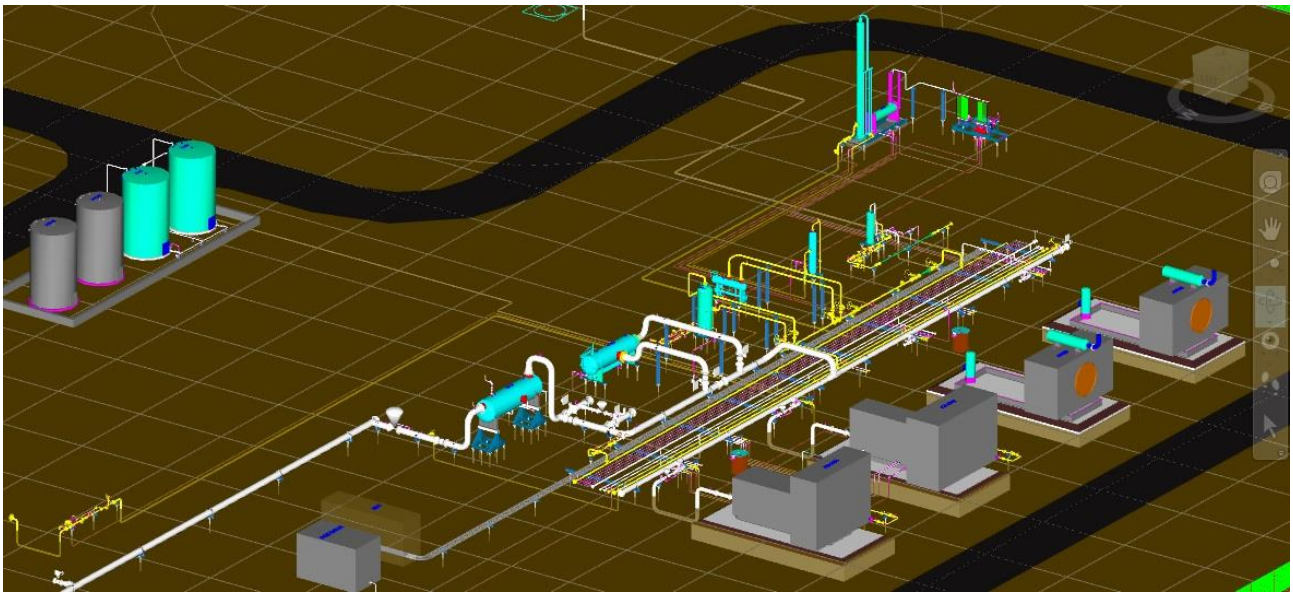
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Technology Used

- 3D Modeling Software – Intergraph CADWorx 2016
- Review Software- Autodesk Navisworks Manage 2016
- 2D Software- Autodesk AutoCAD 2016

Key Deliverables

- Overall Site Layout
- Equipment Layout
- Piping Layout
- Pipe Support Location Drawings
- Bill of Materials
- Isometrics
- 3D Model
- Piping General Arrangement Drawings
- Updated P&IDs

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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.