

3D Modeling & Piping Stress Analysis for Refinery Flare Package

Key Features

Technology:

AVEVA PDMS
CAESAR II
AutoCAD
Navisworks

Duration:

The project was completed in 3 months

Deliverables:

1. Final 3D model
2. Isometric drawings
3. Consolidated Piping MTO
4. Model review files on fortnightly basis
5. CAESAR (.C2) File
6. Stress Reports
7. Support Drawings
8. Overall MTO

The Client

A leader in combustion engineering with over 25 years of project package supply expertise, the client provides full design, manufacturing, erection and commissioning services for flare system for oil & gas refinery, petrochemical, fertilizers, steel plants, and allied chemical Industries.

The Business Need

The client required 3D Modeling & Piping Stress Analysis of flare package with structural support design.

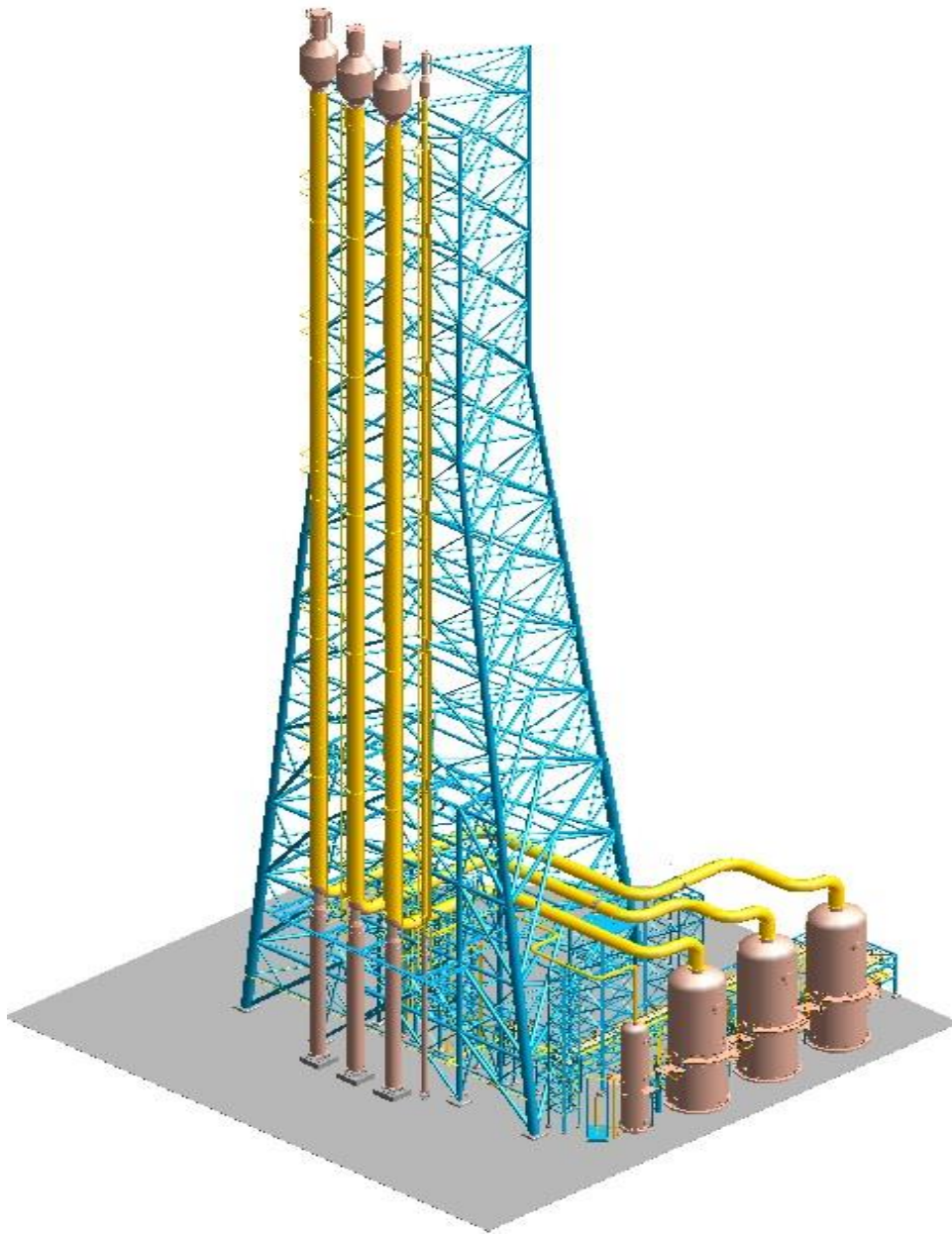
Rishabh's Solution

Rishabh Engineering was appointed to develop an intelligent 3D Model (Aveva PDMS) and Piping Stress Analysis Report (Intergraph CAESAR II) with all the engineering deliverables required for erection & construction with support design.

The scope covered 3D modeling of all major disciplines like:

- Piping
- Mechanical Equipment
- Civil & Structural

We successfully developed intelligent 3D Model with AVEVA PDMS, implemented ASME B31.3 Codes and completed the project in 3 months with a team of 6 members (including a team leader).



3D Modeling & Piping Stress Analysis for Flare Package of Refinery

Technology Used

- 3D Modeling – AVEVA PDMS
- Pipe Stress Analysis – CAESAR II
- 2D Drawings – AutoCAD
- Review Software – Navisworks

Key Deliverables

3D Modeling & Piping Stress Analysis for Flare Package of Refinery including:

- Final 3D model
- Isometric drawings
- Consolidated Piping - MTO
- Model review files on every fortnight bases for client to review.
- CAESAR (.C2)File
- Stress Reports
- Support Drawings
- MTOs

Our Approach & Achievements

- 3D Model was effectively created with 99.9% accuracy fulfilling the quality parameters required by the client. The project was planned to be completed within 3 months and delivered in a timely manner.

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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.