

# 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:**

- Final 3D model
- Isometric drawings
- Consolidated Piping MTO
- Model review files on fortnightly basis
- 5. CAESAR (.C2) File
- 6. Stress Reports
- 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

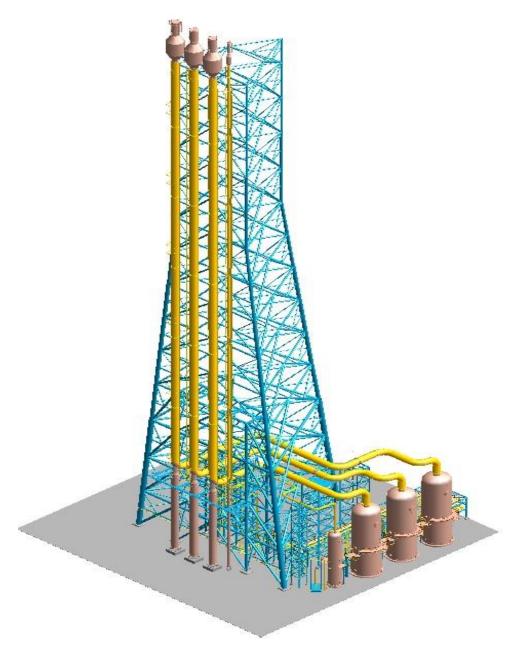
Rishabh Engineering was appointed to develop an intelligent 3D Model (Aveva PDMS) and Piping Stress Analysis Report (Intergraph CAESAR II) with all the engineering deliverables required for erection & construction with support design.

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 B<sub>31.3</sub> Codes and completed the project in 3 months with a team of 6 members (including a team leader).





 $_{\mbox{\footnotesize 3D}}$  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.

#### **Contact Details**

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## **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.

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