

## Pipe & Structural Stress Analysis for OC & RAS Systems

### Key Features

**Technology:**

Intergraph CAESAR II

**Duration:**

The project was completed in 10 days

**Deliverables:**

1. Restraint Report
2. Structural Report

### The Client

A US based engineering and consulting services provider specializing in pipe support engineering/design and pipe flexibility analysis for major piping installations in Power & Water/Waste Water Treatment industries.

### The Business Need

The client required Piping Stress & Structural Stress Analysis (qualification of the system support details to accommodate the Piping loads) for:

- Odor Control system (OC) with Fiber Glass Piping (FRP) &
- RAS (Return Activated Sludge) ductile Iron system

### Rishabh's Solution

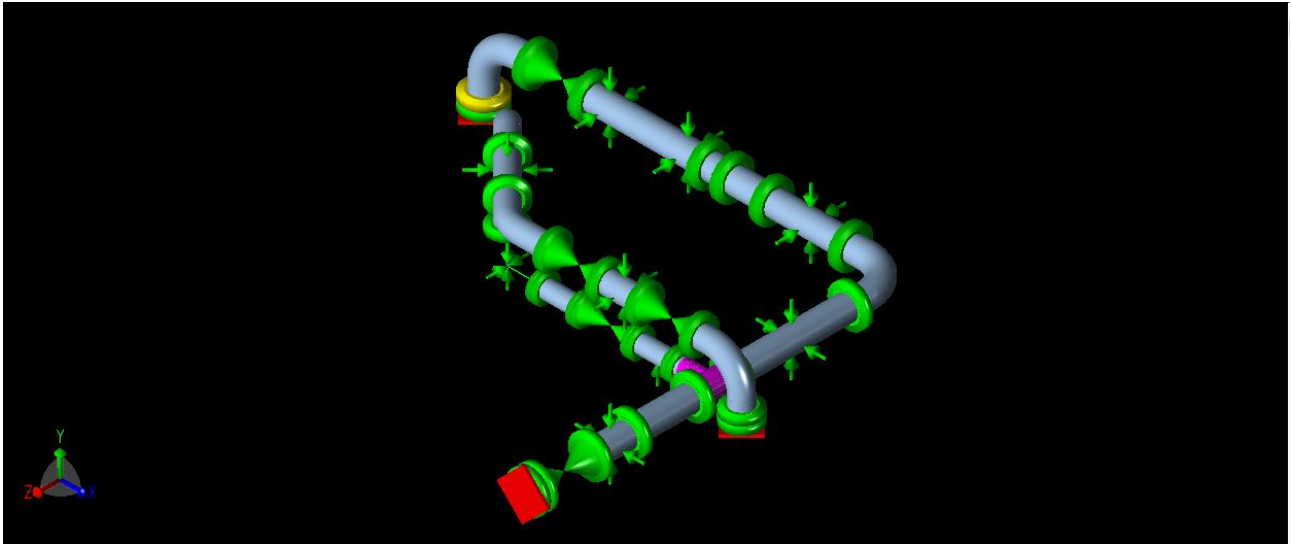
Rishabh Engineering was appointed to deliver the piping stress analysis and structural stress analysis reports for the OC & RAS systems in a span of 10 days by utilizing a pipe stress and a structural stress engineer with the following scope for:

#### OC System

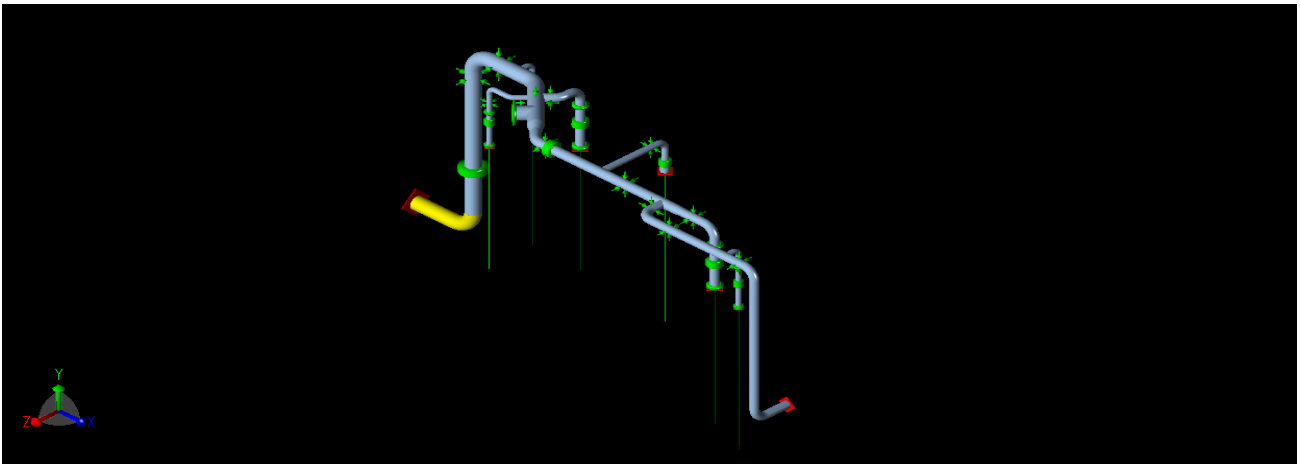
- Basic piping analysis to determine the deadweight and lateral loads on the OC supports
- To qualify the structural frames and baseplates and anchor bolts

#### RAS System

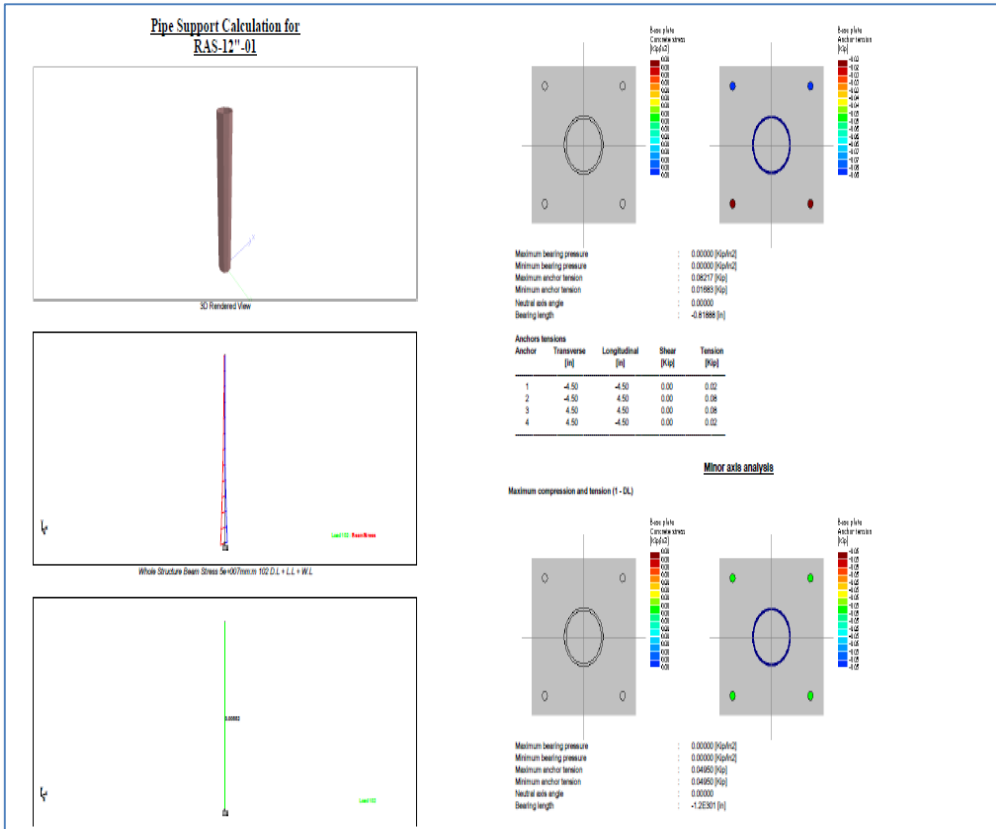
- Basic piping analysis to determine the deadweight and lateral loads on the RAS supports
- To qualify the pipe post and baseplate and anchor bolts



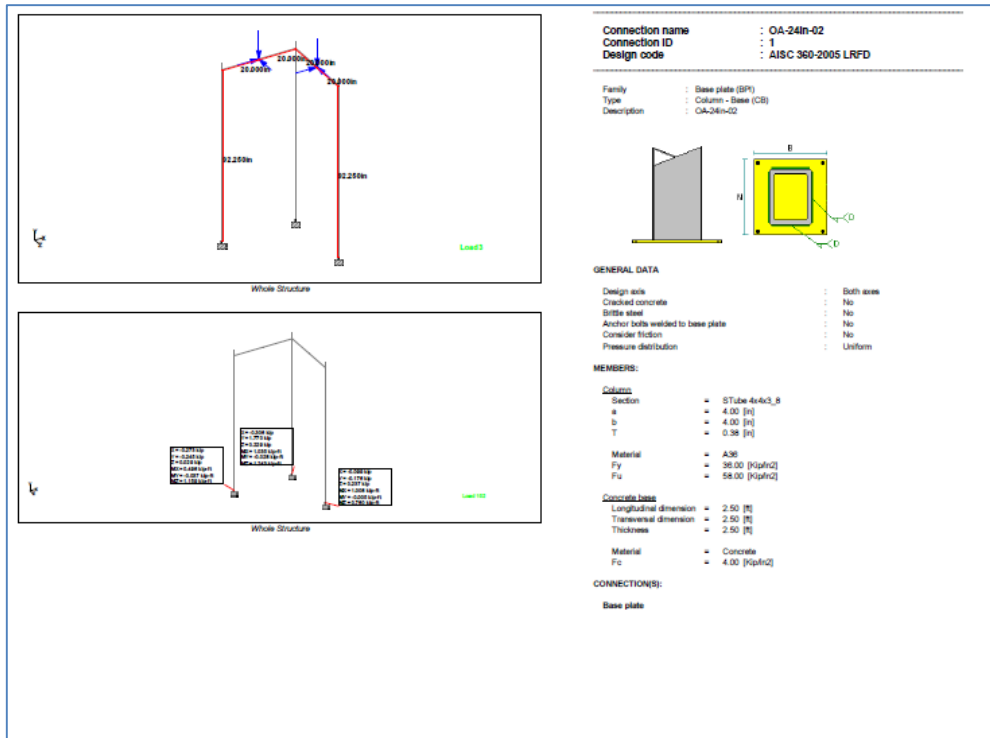
RAS System Piping CAESAR File



OC System Piping CAESAR File



## RAS System Structure STAAD File



## OC System Structure STAAD File

## Technology Used

- Intergraph CAESAR II
- STAAD-Pro
- MS Office

## Key Deliverables

- Piping Stress summary and Restraint summary report
- Pipe support Structure analysis Report

### Contact Details

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More information about Rishabh Engineering, please visit:

[www.rishabheng.com](http://www.rishabheng.com) | [www.rishabhsoft.com](http://www.rishabhsoft.com) | [www.rishabhbpo.com](http://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.