



PIPING DESIGN FOR OIL REFINERY

About Our Client

The client is a Multi-Discipline Engineering, Procurement and Construction Management (EPCM) company that specializes in providing comprehensive solutions to various industries, including chemical, petrochemical, refining, paper, power, industrial power/ cogeneration, gas and liquid transmission, manufacturing, and fabrication.

Scope / Challenge

The scope of this project was quite extensive, involving the design and detailing of over 30 new piping systems and the revamping of around 500 existing pipelines. These pipelines ran across 40 plus critical and non-critical equipment, which presented a significant challenge for the project team.

To accomplish this, the team had to deploy software suites, including LFM, which deals with laser scanning of existing units and converts point data to 3D models.

One of the most significant challenges facing the project team was the tight time frame of just three months given by the customer to complete the project.





Solution

The TAAL Tech team took a meticulous approach in executing this project, starting with a thorough study of the Piping and Instrumentation Diagrams (PIDs) and other critical inputs, as well as the project schedule. The project was divided into three different teams, each of which worked with laser scans and site data to ensure accuracy and completeness.

The first milestone was achieved within just two weeks, with the design ready to be kicked off using existing models generated from the scan data. This early success was a testament to the team's expertise and their ability to work quickly and efficiently.

The client had specific expectations for how the project would be delivered, with a package-wise approach and daily deliveries from each package. The TAAL Tech team was able to meet these expectations by working in parallel and concentric work layouts, ensuring that each package was delivered on time and to the required quality standards.

Throughout the project, the team remained focused on delivering high-quality work while meeting the tight deadlines set by the client. Their dedication and attention to detail allowed them to deliver a final product that met or exceeded the client's expectations, providing them with the infrastructure needed to support their operations for years to come.

Results Delivered

The client was highly impressed with the on time performance of the TAAL Tech team, noting that their ability to work efficiently and effectively under pressure was one of the best they had ever seen. The team's attention to detail and commitment to delivering high-quality work, even under tight time constraints, was a critical factor in the success of the project.

This project's success is a testament to the skill and expertise of the TAAL Tech team, who were able to meet the client's needs and exceed their expectations. The team's ability to work collaboratively and efficiently, along with their technical proficiency, allowed them to complete the project on time and to the required quality standards, establishing TAAL Tech as a trusted partner for the client.



About TAAL Tech

TAAL Tech is a niche Engineering and Technology solutions provider serving global corporations in their pursuit for faster innovation. Our vision is to be a leader in providing innovative, high value engineering & technology services to global corporations. Meet our team and learn more about us.

