

Design & Detail Engineering for a Water System Package Module

Enventure's expert engineering team provided Design, Modelling and Detail Engineering services to a California-based client for Produced (Oil & Gas) Waste Water Treatment Plant.



About the Client

The Client is a leading developer of innovative and award-winning Water Treatment membrane products and solutions, with services offered across six continents. With a skilled in-house team, the Client develops and markets products and solutions for the world's most challenging water reuse and desalination applications. The Client leads the global advancement of water reuse through ceramic monolith membrane material, module and process innovations.



Business Need

The Client was in the process of developing a product that incorporates ceramic membrane system for microfiltration and ultrafiltration for Industrial Waste Water Treatment applications. With their experience in providing products related to Waste Water Treatment and over a period of learning, they arrived at a breakthrough technology. They required design and detail engineering services for the new product.

As the in-house team was engaged with Process Development and R&D activities to economize the design/detail engineering activities and to reduce the time from “Concept Design” to market, the Client needed a team that could complement their strength to deliver the desired model. The project required synchronization and utmost transparency in execution, hence the Client’s expectation from their engineering partner was relevant experience, domain knowledge and delivery speed with superior quality.

After several discussions and evaluation of multiple vendor options, the Client decided to award design, modelling and detail engineering services to Enventure. Enventure’s multi-disciplinary engineering team was engaged to provide detailed PFD, PID & 3D model of the new product.



Why Enventure?

The Client had in-depth discussions with the Enventure team on schedules & budgets and was pleased with the comprehensive proposal shared by the team.. The Client appreciated the effort that Enventure had put in to the proposal and observed that it demonstrated quality of their talent.The following key differentiators helped build the Client’s confidence in awarding the project to Enventure:

- Excellent customer service systems with clear communication channels
- Sincerity to deliver great results and work towards a common objective
- Strong engineering team with cumulative domain experience of over 4 million man-hours
- Flexible team structures to quickly ramp up with changing business needs
- Credible track record of having been an engineering partner to several companies since 1997
- Mature and robust offshore Project Management System
- ISO certified Quality Management System



The Solution



Team Enventure consisting of experienced professionals started working on the project based on the initial discussions with the Client and provided a detailed schedule based on the requirements.

Enventure developed detailed PFD, P&ID & 3D model of the system and generated fabrication grade drawings. Enventure was able to effortlessly slip into the role of an extended engineering team for the Client due to their prior experience with similar projects related to Water Treatment systems.

Team Enventure offered tailor-made solutions even when they encountered challenges with respect to the inputs. Escalations for the challenges and transparency was maintained with the Client at all stages of the project execution. The team worked proactively to resolve problems much beyond the call of duty. When faced with issues related to schedules, the team ensured that they work collaboratively with the Client and fill in all the missing data to deliver quality output as well as find alternate ways to complete the tasks within given timelines.

Several rounds of discussions and review meetings were conducted whenever the need arose, to ensure that the project was complementing the Client's internal efforts.

With Enventure's solutions that were delivered on time, the Client was able to meet their fabrication deadline for the new product.

Benefits

The Client was impressed with the speed and quality of the work done by the Enventure team. The detailed PFD, P&ID & 3D model of the system that was delivered on schedule helped the Client, meet their fabrication deadline for the new product. Meeting the deadline was a critical aspect for the Client as it resulted in providing considerable market advantage to the product, thus helping the Client to gain a competitive edge.

The 3D model delivered by Enventure had a wider scope of advantages as it would also help the Client for their future product designs. Additionally, if the Client has to share product specifications at pre-bid stage the 3D model could be used to calculate accurate estimates and realistic proposals.



Conclusion

Enventure played a pivotal role in helping the Client meet the fabrication deadline of their new product. The efficient Project Management System and seamless communication at Enventure ensured the overall success of the relationship and enabled Enventure to establish itself as the Client's preferred partner for engineering.



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