

Gas Processing Equipment

PROCESS ENGINEERING AS PER GLOBAL STANDARDS

The global modularization market was worth \$ 10 billion in 2020 and is predicted to be worth \$ 14 billion by 2030, growing at a CAGR of 5.7 percent. Modularization is the act of constructing pipe spools, pipe racks, and skids at offsite fabrication facilities. These products are employed in the oil and gas and petroleum refinery industries because they help minimize on-site construction costs and time, as well as their capacity to add flexibility to project execution. Modularization seeks to reduce the number of interfaces, total installed cost (TIC), and overall project gestation while optimizing ROI and permitting standardization of future similar projects. Modularization, as opposed to traditional field-constructed projects, divides a unit into components, known as "modules," which are prefabricated at an offsite workshop and placed subsequently onsite on a pre-laid foundation. Increased demand for piping spools and modular skid systems in the oil and gas, petrochemical, and other industries are expected to fuel the modularization market expansion.

Further, an increase in construction activities for oil and gas refineries and other projects, which in turn increases demand for plant modules, is expected to cater to the market's expansion. Modularization offers many significant benefits including cost savings by reducing field erection; higher quality and safety from having fabrication done in an offsite shop; decreased schedule (by up to 25-50%); increased



efficiency; module mobility and re-usability; and less site construction complexity due to fewer interface points for modules, reduced onsite logistics, and many more.

Gas Processing Equipment (GPE) is a trusted name in this highly technical industry, specializing in the engineering and supply of process plants, skid packages, and equipment. GPE has good access to job processing centers, ancillary service providers, engineering expertise, and a supplier base owing to its integrated office and plant in western India's industrial

hub of Pune. It serves a wide range of industries, including upstream oil and gas, refineries, petrochemicals, fertilizers, steel, defense and renewable energy such as biogas and green hydrogen. With committed engineers, cutting-edge simulation, 3D modeling, mechanical and thermal sizing tools, the company provides complete solutions to customers all over the world. "Strict adherence to our integrated management system covering ISO 9001, 14001, and 45001 assists us in ensuring perfect project execution," says

Somdev Chattopadhyay, Co-founder & Director. Somdev has developed GPE as a process-driven, professionally managed SME specializing in critical process equipment and skid packages. He holds an engineering degree from Pune University and a PGP from IIM Bangalore."

Modularization of Projects

Projects are characterized by complexity and uncertainty. Each project is unique and its success depends on a variety of design and project management strategies. Companies with a wide product range must be able to manage project complexity to maximize efficiency and secure long-term competitive advantage.

GPE modularizes process plants by splitting them into skid assemblies using advanced process simulation and 3D modeling software. Individual skids are pre-assembled as per project specifications, fully tested during FAT and then transported to site. Since these skids are 'plug and play,' customers can quickly install and commission them. GPE can custom deliver these plants in record time because of the deployment of a robust project management and progress tracking system. GPE also has a distinct competitive advantage owing to its collaboration with process experts from Europe and the USA.



With a dedicated team of engineers, the latest simulation, solid modeling software, and mechanical & thermal sizing software, the firm offers end-to-end solutions to its customers across the world

The company provides a full variety of modularized process plant design and supply options. Customers can choose products and services based on the scope of their project, technical specifications, delivery dates, outsourcing policies, and end-user standards. Significantly, GPE's key strength is the construction of process equipment, and its plant is ASME certified. The firm's procurement staff can aid in locating bought-out

components that are on the vendor lists of nearly all major engineering consultants, process licensors, and end-users. GPE can provide complete material traceability, on-time project delivery, engineering change control, and online QAC documentation owing to its deployment of 'GPEpro' which is a completely customized ERP system based on the SAP B1 platform.

Comprehensive Services

GPE provides full process engineering services for gas dehydration, separation, purification, cleaning, and compression applications, leveraging 'WINSIM II' and a range of in-house software to simulate process parameters. GPE provides O&M services combining the highest levels of participation and devotion to the customer's facility in accordance with newest process industry trends. All important operations services, such as operations support, technical expertise and solutions, local/remote monitoring and diagnostics, full maintenance planning and execution, and inventory management, are seamlessly integrated into routine operations on a daily basis.

"We always work towards adding value to our End-user and have made ENDUSER the acronym for our project execution strategy. This encompasses the following:

Ensure diligence in detail engineering, for trouble-free and timely project execution.

Nurture relationship with global associates based on professional integrity.

Develop insight through interaction with customers and consultants.

Understand latest process engineering developments from across the world.

Source bought our items from leading suppliers with strong service organizations.

Ensure highest standards of quality, inspection, and internal testing during production.

Recruit and retain talented individuals through training and motivation," explains Shankar Chattopadhyay, Founder & Managing Director. Shankar started GPE with the clear vision to modularize process plants and harness India's engineering and manufacturing talent for the world market. He has over 40 years of experience in the global process industry and is an engineer from IEST (B.E.College) and MBA from IISWBM.

Over the years, GPE has grown multifold and carved a niche for itself due to its relentless focus on quality and timely project execution. It aims to be the preferred service provider for modularization at the world stage in the decades ahead. With induction of new directors and domain experts, the company is well poised to grow both its topline as well as reputation. ||