

Company Overview

Petrospine Engineering Pvt. Ltd. is leading engineering consultancy which has a significant expertise in many different areas of Chemical, Fine Chemical, Pharma, Refining, Petrochemical and Oil & Gas facilities design. We are committed to deliver cost effective and well scheduled reliable technical solutions to our customers.

Process Engineering is a key element and passion of Petrospine technical activities in the development of overall chemical industry and not limited to Oil and Gas industry only. Our additional strength is Distillation, which is the major unit operation of chemical industry. We are expertise in distillation design, troubleshooting and operational solutions.

Our engineers and project management team have extensive experience, being as an Industry leaders they have executed several engineering projects successfully. We are proud to employ a wealth of highly experienced engineers, with a good process design knowledge and able to provide independent advice on the most appropriate licensed technologies.

Petrospine engineering capabilities cover engineering studies for pressure vessels, rotating equipment, instrumentation, electrical facilities, computing, piping, civil works, cost control and scheduling for facilities and revamps. All types of engineering studies are fully managed in-house and through our strategic alliances.

To our customers, we offer engineering studies based on powerful engineering tools and work processes. According to the nature of the project, engineering studies will include all or part of the engineering steps; such as Basic Engineering Design (BED), Front End Engineering Design (FEED) or Detail Engineering.

Company Strategy

Purpose: To be a leader in the Engineering Project Management and Consulting industry by providing enhanced services, relationship and profitability.

Vision: To provide quality services that exceeds the expectations of our esteemed customers from Chemical, Fine Chemical, Pharma, Petrochemical, Refining and Oil & Gas industry.

Mission Statement: To build long term relationships with our customers and clients and provide exceptional customer services by pursuing business through Qualitative, Work Prioritising and Innovative Strategies.

Core Values: We integrate honesty, integrity and business ethics into all aspects of our business functioning. We believe in treating our customers equally whether they have small scale or large scale background, our key focus is to deliver sustainable qualitative solution as per their requirements.

Goals: We are eyeing for a countrywide expansion in the field of design engineering and supportive services, project management and to develop a strong base of key customers. To build good reputation in the Process Engineering and Engineering Project Management and become a key player in the industry.

Key Competencies / strengths

- Simulation
- Basic Engineering
- Front End Engineering and Design (FEED)
- Detailed Engineering
- Concept Studies
- Revamps
- Licensers Evaluations and Selection
- Troubleshooting Assistance and Engineering solutions
- Project Management Consulting
- Technical Bid Evaluation and Vendor Management

Project Experience/Exposures

- Hydrogen Production Unit
- Ethylene Cracker and Associated Units
- Hydrocracker Unit
- Sower Water Stripper Unit
- Sulphur Recovery Unit
- Crude Distillation Unit
- Vacuum Distillation Unit
- LPG Extraction Unit
- Gas Processing (Condensation Stabilization/Glycol Dehydration/Glycol Regeneration)
- Tank Farm and Utilities
- Exposure to Auxiliary Units (Plant and Instrument Air/GTG/Hot Oil)
- Solvent Recovery

Tools and Techniques

- HYSYS®
- Flarenet®
- PRO-II®
- Promax®
- HTRI®
- PIPENET®
- AUTOCAD®
- PDMS®
- CEASER®
- SPPID®
- SP3D®

Engineering Skillsets

- Plant Simulation
- Piping and Instrumentation Drawings
- Process Flow Diagrams
- DPDT Diagram
- Material Safety Diagram
- Design Basis
- Process Design Criteria
- Process Control Philosophy
- Operating Manuals
- Cause and Effect Diagrams
- Vessel Sizing (including two and three phase separators)
- Heat Exchanger Sizing
- Air Cooler Design
- Column Sizing and Internal Selection
- Control valve hydraulics
- PSV/PRV hydraulics
- Pump Hydraulics
- Line Hydraulics
- Equipment Process Datasheets/Specifications
- Instrument Process Datasheet/Specifications

Speciality Services

- Piping stress analysis
- Surge analysis
- Process Development / Optimisation
- Pre-feasibility and Feasibility Report
- Project Report
- Process Training
- Energy Audits
- Market Research
- Process Inspection and Data Analysis

We are also very enthusiastic to offer the extended support beyond the Process Engineering and not limited to below mentioned disciplines through our strategic alliances we have with other engineering partners.

- Piping Engineering
- Static Engineering
- Rotating engineering
- Instrumentation and Control Engineering
- Civil Engineering
- Equipment Manufacturing

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