



About Mun Siong Engineering Limited

One of Singapore's leading integrated service providers since 1969, Mun Siong Engineering Limited offers a range of mechanical and electrical & instrumentation services for oil & gas, petrochemical, energy, chemicals, and power industries. As a one-stop solution provider, the Mun Siong Group caters for engineering, procurement, fabrication, construction, maintenance of plants and equipment, and specialised products and service solutions.

Location : Singapore

Job Description

Piping engineering is a branch of engineering dealing with design & layouts of piping network along with the Equipment in a process plant. These layouts from a complete blue print of the plant & are used for plant construction at site. The most important factors to be considered are process requirements, safety, operability, maintenance, compliance with statutory requirements & economy.

Responsibilities

- Piping design engineers' involvement starts right from feasibility and then to conceptual and detail engineering where the output comes in terms of drawings.
- Study the process requirements & site condition to design and plan the mechanical system that can support the process operations work.
- Plan and prepare layout to analyze the space requirement, road access, maintenance space, location of equipment, and requirement of pipe rack
- Co-ordinate with electrical, instrumentation, process team and civil structural team to understand the elevation & structural requirements.
- Inform civil structural team about pipe racks, platforms, and structural requirements.
- Prepare piping layouts, isometrics and perform stress analysis as required.
- Selection of components such as valves, fittings, insulation, painting, welding specification, testing requirements to produce an economical design.
- Prepare datasheet for valves, special type fittings & strainers, moreover coordinate with vendor to make sure that the right product is delivered at your home.
- Prepare specification for vendor quote and perform TBE (technical bid evaluation) at times.
- Review and ensure that the design is compliance with the international codes & standards, local country codes & client specifications.
- Prepare the material list depicting all the materials, sizes, specification, special requirements, testing requirements to meet the design. This document shall be used as an input for a procurement team.
- Review the documents & drawings of vendor supplied equipments, valves and skids to verify the piping requirements are meet.



- Perform site inspection at vendor manufacturing unit to qualify a vendor to check that he can supply the bulk requirement on demand.
- Cross verify the stress report with supports mentioned in the drawings to avoid design flaws.
- Assist project engineering team for the last minute modification requirement during construction.
- Prepare as-built drawings after completion of construction and documents as necessary.

Requirements & Professional Skills

- Bachelors Degree in Mechanical Engineering
- Minimum 3 year's relevant experience in projects for chemical, oil & gas, power plants.
- Conversant with applicable Codes & Standards for plant piping design, ASME/ANSI B31.3, API520, ANSIB16.5, API602, etc.
- Able to provide quick and effective technical solutions, to suit requirements at all stage of the project.

Our Core Values

Safety

To put the safety of our staff above all.

Quality

To strive for continuous quality improvement in all that we do.

Customer Focus

To achieve total customer satisfaction by flawlessly delivering customer wants.

Leadership

To be a world-class leader in every aspect of our business.

Teamwork

To encourage cooperative efforts at every level and across all activities in our company.