Meeting with clients to define pipeline requirements.

Conducting site surveys and research to determine pipeline specifications and placement as well as pump sizes.

Preparing and presenting technical materials such as cost estimates, pipeline layouts, and flow simulations.

Calculating project requirements such as materials, budget, and time.

Creating and developing digital designs such as pipeline maps, blueprints, and mechanical diagrams.

Overseeing the construction and installation process of pipeline infrastructure and systems.

Performing maintenance, repairs, and upgrades to pipelines, as needed.

Keeping up to date with the latest advancements in design software, technical standards, and construction techniques.

**Pipeline Engineer Requirements:**

Proficiency in mechanical design software such as AutoCAD or Pipeline Studio.

Experience with pipeline construction techniques such as welding, excavation, and assembly.

Exceptional project management and organizational skills.

Strong communication and leadership abilities.

Willingness to travel and work in harsh weather conditions.

Development & Checking of plot plan, crude oil storage tank, equipment layout, Piping layout & Isometric drawings

Prepare minutes of meeting record and follow-up with internal team for closures.

Reviewing and optimizing the 3D model for efficient use of space, equipment arrangement, piping configurations and accessibility

Conceptual piping arrangement for piping systems and utility piping systems

Preparing reports, technical specification and engineering documents such as line list, valve list, equipment list, tie-in list etc.

Presenting project mile stone of 30%, 60% and 90% 3D model reviews to clients

Knowledge of process equipment, function and plant operation, ESD & PSD procedures.

Listing out the critical pipelines for stress analysis

Preparing technical bid evaluation and assisting estimating group for preparing cost estimate during FEED and proposal stage

Familiar with various international piping codes NFPA 59A, ANSI/ASME, API, ASTM, BS & NORSK

Providing internal training and knowledge sharing program to improve the engineering efficiency

Providing engineering proposal and technical assistance to construction

Overseeing site construction work and Development various testing & commissioning procedure

Preparing Piping layout, Technical specification & job specification

Developing the equipment layout and general arrangement drawing and site co-ordination

3D Model review and resolution, Vendor drawing review and technical discussion

Preparation and Checking of P&ID, line list, Layouts, ISO’s, support drawing and bill of material / material take off

Interaction & coordination with other engineering design discipline, clients and vendors

Providing engineering guidance and Preparing engineering documents, reports and presentation

Knowledge of inter discipline engineering activities and providing technical solution

Bid evaluation, Man hour estimation and Manpower planning

Familiar with classification DNV, ABS, IRS, MARPOL & SOLAS regulations

Familiar with various international piping codes NFPA 59A, ANSI/ASME, API, ASTM, BS & NORSK

3D Modelling of piping system and equipment

Estimating BOQ, MTO from the drawings

Preparing piping layout, Equipment layout, Valve list, Line list

Preparing piping tie-in list and location identification

Preparing piping system matrix, composite layout & ISO drawings

Preparing & Selection of vessels tank fittings, Deck & bulkhead fittings and Skin fittings

Reviewing & development of marine P&ID as per class and marine requirement

Preparing piping co-ordination drawing and production support

Preparing inter discipline clash report and erection sequences.