

JOB DESCRIPTION – LEAD ENGINEER

RESPONSIBILITY

To ensure generation of Engineering design deliverables prepared with due diligence after appropriate consideration of client's requirement and comprehensive compliance with PLE's Quality Systems Procedure; to encourage a **First-Time-Right (FTR)** approach for preparation of design deliverables, per approved budget/schedule.

ROLE PURPOSE

Essential

- Lead & own the process of preparation of design deliverables with due consideration for applicable Codes & Standards.
- Interface with Leads of other departments to reflect the as-on-date input from other departments, as applicable.
- Take ownership of deliverables produced & their quality.
- Capture all changes / modifications in the deliverables that has been intimated by Project, prior to release of deliverable.
- Ensure appropriate checking & review of all documents / drawings before release at any Revision status.
- Attend project review meetings.
- Manpower estimation, work planning / forecast and effective utilization of manpower, progress monitoring and adherence to scheduled completion of engineering documents.
- Coordination with the other Engineering disciplines, client and vendors
- Control of Quality of engineering documents with regard to Quality assurance basis.
- Assist HOD in all departmental functions.

Secondary

- Identify training needs of team members.
- Keep HOD informed on progress of project, with agreed periodicity.
- Monitor Budget Compliance of design deliverable production.
- Escalate resource / infrastructure issues / concern areas that implicate the production process, to the right office / agency.
- Acts as a mentor for GET's / EDHT's.

PROFESSIONAL QUALIFICATION

Essential B.E. / B. Tech in Mechanical / Civil Engineering

Desired M Tech in Pipeline Engineering, Marine Structures, Civil/ Mechanical Engineering

EXPERIENCE

Minimum 9 – 15 years relevant experience in on-shore / off-shore Pipeline design / Engineering, stress analysis

SOFTWARE SKILLS

Essential

- Hands on experience of carrying out following analysis on Caesar / Auto Pipe plus Software
 - Buried to Above Ground Pipeline section, stress / flexibility Analysis.
 - Off-shore Riser Analysis
 - Off-shore Crossing Analysis
 - Plant Piping Stress Analysis.
- Proficiency in using offshore pipeline design software such as plus one (Pens pen), Pipe Calc (JP Kenny), Fat Free (DNV), AGA Stability. Stable lines (DNV).
- Hands on experience in carrying out installation analysis of Off-Shore pipelines using OFFPIPE and Orcaflex / Orcalay.
- MathCad and AutoCad Application.

Desired

- Good working knowledge of MS Office suite applications

TECHNICAL SKILLS

Essential

- Carrying out design / engineering of on-shore & Off-shore pipelines as per ASME B31.4, 31.8, 31.3, Section VIII, API 1111, ISO and DNV, MSS Codes and Standards / Recommended Practices.
- Specifying and Procurement of Pipeline and Associated facilities materials using API, ANSI, ASTM, ISO, DIN, CAZ, and BS Codes and Standards.
- Capability to draft Specifications, Reports, Basis of Design.
- Preparation of Alignment Sheets, Crossing Drawings, Route Maps, BV and Scraper station layouts, PLEM Layouts, Riser GA etc.
- Installation analysis of Off-shore & On-Shore Pipelines.

Desired

- Specifying requirements for design of loading / unloading facilities / pipelines of Off-Shore terminals like, Jetties, SPM.
- SPM Design Review.

BEHAVIORAL SKILLS

Behavioral Skills	Essential	Desired
Communication	✓	
Interpersonal Skills	✓	
Planning & Organizing	✓	
Prioritising	✓	
Decision making & Objectivity	✓	
Leadership	✓	
Empowerment & Delegation	✓	
Change Management	✓	
Conflict Management	✓	
Integrity	✓	
Accountability	✓	
Team Orientation	✓	
Customer Orientation	✓	
Quality Orientation	✓	