

## JOB DESCRIPTION – JOB ENGINEER

### RESPONSIBILITY

- To generate Engineering design deliverables prepared with due diligence after appropriate consideration of client's requirement and in line with instructions received from Lead Engineer and in comprehensive compliance with PLE's Quality Systems Procedure;
- To adopt and encourage a **First-Time-Right (FTR)** approach for preparation of design deliverables and ensure alignment to approved schedule.

### ROLE PURPOSE

#### Essential

- Obtain/assimilate relevant design input from Lead Engineer and other agents in Project and incorporate in the deliverables;
- Ensure preparation of design deliverables with due consideration for applicable Codes & Standards;
- Ensure prompt Coordination with the other Engineering disciplines.
- Vendor interactions
- Ensure appropriate checking & review of all documents / drawings before release at any Revision status.
- Assist lead in Work planning, progress monitoring and adherence to scheduled completion of engineering documents.
- Preparation / checking of deliverable as per quality plan.
- Schedule adherence for job assigned.

#### Secondary

- Assist HOD / Lead Engineer in all departmental functions.
- Checking and Review of vendor documents
- Updating information on products and vendors/sub-contracts
- Review of critical systems with Lead Engineer and perform necessary steps to produce quality product.
- Acts as a mentor for GET's / EDHT's

## PROFESSIONAL QUALIFICATION

- **Essential** B.E. / B. Tech in Mechanical / Civil Engineering / Chemical Engineering
- **Desired** M Tech in Pipeline Engineering, Marine Structures, Civil/ Mechanical Engineering

## EXPERIENCE

Minimum 5 - 10 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 PLUSONE (Penspen), 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, Excel and AutoCAD Application.

### Desired

- Good working knowledge of MS Office suite applications

## TECHNICAL SKILLS

### Essential

- Understanding of ASME B31.4, 31.8, 31.3, Section VIII, API 1111, ISO and DNV, MSS Codes and Standards / Recommended Practices and Carrying out design / engineering of on-shore & Off-shore pipelines as per these codes.

- 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

- Understanding the requirements for design of loading / unloading facilities / pipelines of Off- Shore terminals like, Jetties, SPM, and PLEM.

#### BEHAVIORAL SKILLS

Behavioral Skills	Essential	Desired
Coordination	✓	
Data Analysis	✓	
Attention to detail	✓	
Planning & Organizing	✓	
Decision making & Objectivity		✓
Prioritizing		✓
Integrity	✓	
Communication		✓
Accountability	✓	
Team Orientation	✓	
Customer Orientation		✓
Quality Orientation	✓	