

SATHISH KUMAR BASKAR

Piping Engineer

Professional Summary

Having around 11 years of experience in oil and gas industry in upstream and downstream oil and gas projects which includes offshore production and wellhead platforms, FPSO, FLNG, LNG and Onshore refineries & petrochemicals, oil & gas processing plants.

Currently working with JGC Yokohama, Japan as Piping Engineer involved in FEED & Detailed Engineering projects.


Having good knowledge in piping engineering (Layout, Materials and Stress analysis)

Worked with different operating company standards like PETRONAS, MODEC, SHELL, IOCL, TOTAL, WOODSIDE, ZABSIB.

Roles and Responsibilities

- Exhibit excellent Design skills and strong, consistent leadership to efficiently deliver Documents to both client and company satisfaction.
 - Leading a team of engineers and designers for project execution.
 - Well conversant with international Codes and Standards such as ASTM, API, ASME, NACE etc.
 - Preparing design instructions and standards based on project specifications and client requirements.
 - Preparing the Piping Class specifications based on the process PID requirements.
 - Preparing the pipe support drawings and pipe assembly standards for the project requirements.
 - Review & commenting of Plot plan, Equipment GA, valve datasheets, instruments, piping speciality & Isometrics.
 - Preparation of preliminary and intermediate MTO at different stages of project.
 - Preparing Piping Assembly STD, Utility station layout, Instrument air layout etc...
 - Presenting 3D model at different stages (30%,60% and 90%) in Internal and client Model Reviews.
 - Design and modelling of Firewater Deluge system as per the process safety requirements.
 - Preparing study sketches and instructing designers to update 3D model.
 - Preparation of Equipment Layout, Piping Layout and support drawings etc.
 - Modeling of piping, equipment's and structures using PDMS/E3D/SP3D.
 - Pipe Support tagging & MDS modelling for both critical and non-Critical lines.
 - Other responsibilities include inter & intro disciplinary coordination, Manpower Scheduling.
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- Building Cats and Specs for piping components, specialities and instrument valves.
 - MDS supports customization as per project requirements.
 - Generating Daily Navis review model and model data consistency error reports.
 - PDMS/E3D PML development, C# Addins & PMLNet customization.
 - Attention to detail, problem-solving skills, and the ability to work on multiple projects simultaneously.

Work Experience

 **JGC – Yokohama, JAPAN** – From Nov2022 to Current (Deputed from HCL Tech Chennai)

Project: ZLNG

Role: Piping Engineer

- Handled Hot water Pumps & Heater Skids, N2 Holder & Compressors Packages and Chemical Injection skids.
- Plotplan preparation and development for 60%, 90% stages for project.
- Piping Assembly STD and utility station layout preparation.
- Reviewing and providing comments to equipment Vendor drawings.
- Designing platform for vessels and proving input to Mechanical team.
- Plotplan study, development and Equipment Vendor drawing commenting.
- Preparation of technical reports/instructions in project.
- Isometrics checking

 **KBR - Chennai, INDIA** – From May2020 to Oct2022

Projects: Plaquemines-LNG | Sangomar-FPSO | Marlim 1-MV33

Role: Senior Piping Designer

- Handled LNG Liquefaction Train system (LTS modules).
- Area Designer for Flare and KO drum unit and process piperacks.
- Area designer in GTG module for developing the fire water network.
- Coordination with vendor and inter-discipline.
- Presented 60% & 90% Model review with client.
- MDS Support modelling and Isometric Issuance.
- Support modelling coordination, guidance, Isometrics back-drafting and issuance.
- E3D MDS Support Coordinator.

 **TechnipFMC – Chennai, INDIA** – From July2013 to Apr2020

Projects: Coral FLNG | ZAPSIB-2 –PE-Plant | Sasol LCCP Ethane Cracker | JBF

Role: Senior Piping Designer

- Site Query coordination and resolution.
- Isometric and Construction DMS coordination.
- Piping Isometrics coordination and weekly report sending to projects using POWER BI tool.
- Co-ordination with Sub contractor for Tie-in Schedule Preparation and follow-ups.
- 3D model clash check and resolution
- IDC drawing checking from Safety, Inst, electrical, handling, structural teams.
- Instrument (ON/OFF) valves Review & Commenting.
- Co-ordination with Sub Contractor to have clash free Model & resolution.
- Close out of Internal & Client model review comments.
- Auditing and issuing isometrics as per the project schedule
- MDS Support modelling Coordinator

Achievements

- Developed the piping dead load program in E3D for calculating the Dead weight of piping system and providing input to the structural team. (For ZLNG project)
- Developed Copy Utility in E3D for LTS Modules Copy functions. (For PLNG project)
- Developed loading info tool in E3D using stress summary (For PLNG project)
- Developed SPS utility for project special SPS supports. (For Coral FLNG project)

Software Skills

- E3D/PDMS, S3D/ SP3D
- AutoCAD, Microstation, Smartsketch
- Navisworks, SmartPlant Review, Review Reality
- C# dotnet, Python, Javascript, cmd & powershell scripts
- Office 365 Apps, PowerBI

Overseas Experience

- Yokohama, Japan (Nov2022 to TillDate)

Educational Qualifications

- 2016 to 2019
Sathyabama Institute of Science and Technology, Chennai, India.
Bachelors in Mechanical Engineering
CGPA 8.3
- 2010 to 2013
CPCL Polytechnic College, Chennai, India.
Diploma in Mechanical Engineering
CGPA 9.1

Languages Known

English, Hindi & Tamil (Native)

Personal Details

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