

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 in **FEED** and **EPC** 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.
- Ability to Conceptualize Plot plan, Equipment layout, utility station layouts etc.
- 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...
- Preparation of vessel trims, LG/LT & nozzle orientation drawings.
- 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**, support drawings, Piping **GAD** 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.
- Preparation of Equipment list, line list and Valve list etc.
- Piping **Isometrics** and piping GAD checking and Issuance.
- 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.
- Preparation of 3D model at FEED and EPC at 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, Smarts sketch
- 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 & Tamil (Native)

Personal Details

Name : Sathish Kumar
DOB/Age : 25-Aug-1994 / 29yrs
Mobile : +91 8682930853
Email : basathishkumar@outlook.com
Address : No 60A, Sivapatham 3rd street KK Thazhai MMC,
Chennai – 600051, Tamil Nadu, India.