ESAKKIRAJ.E
E-Mail: esakkiraj27@gmail.com
Mob. No: +91-9003895331 (IND)



EMPLOYMENT SUMMARY

Having more than **16 years** of experience in piping design engineering, field engineering in offshore and onshore oil and gas projects in India and Overseas.

- Worked in EPCs, like Saipem S.P.A Kuwait, Hyundai heavy industries offshore engineering centre - South Korea, Petrofac -Chennai and UK, L&T Valdel – Chennai and Design Technologies - Mumbai.
- Presently working as a **Principal Piping Engineer** at Saipem India Projects-Chennai for Buzios P-79 FPSO project.

EDUCATIONAL RECORD

Bachelor Of Engineering (Mechanical)	**First class with distinction (April - 2004)**	**Trichy Engineering College, Bharathidasan university**
Diploma in Mechanical Engineering	**First class with distinction (April - 2001)**	**Lakshmi Ammal Polytechnic, Tamilnadu**

PROFILE SUMMARY

- Familiar with International design codes (ASME, NORSOK, API, etc.) and standards.
- Conversant in company standards (Shell DEP's, Total, Petrobras standards, etc.).
- Strong potential in managing piping engineering activities and drive the tasks like man-hour estimation for FEED, proposal and detailed engineering, FEED endorsement, preparation of isometric curve, planning, and scheduling of all piping deliverables.
- Review of vendor documents and inter discipline deliverables.
- Checking of plot plan, equipment layout and piping GAD' s.
- Pipe rack design, preparation and checking of all piping deliverables.
- 3D modelling of piping and equipment.
- Review of pipe routing in view of operability, maintenance, access, support feasibility and safety requirements.
- Driving the 3D model in client reviews.
- 3D model review tag close out activities.
- Mechanization of P&ID.
- Resolution of site queries during fabrication and installation.
- Preparation and issue of Field Change Notice for piping deliverables at site.
- Design change notice study and analysis.
- Site survey and report preparation.
- Inch dia and inch meter estimations.
- Static analysis of piping systems (sustained loads, occasional loads, and expansion loads).

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MATERIALS KNOWLEDGE

- Pipe wall thickness calculations.
- Familiar with preparation of Piping Material Specification sheets for hydrocarbon and utility services.
- Materials Take Off - Piping, valve, specialty items, insulation, painting and supports.
- Preparation of Material Requisition Sheets, TQ, Technical Bid Analysis for piping items.

WORK EXPERIENCE:

I. Current Employer: Saipem India Projects Pvt Ltd, Chennai and Kuwait - (Aug 2016 to till date) Designation: Principal piping engineer

1. Client-Petrobras, Brazil, (May 2021 to till date)
Project-Buzios field area development P-79 FPSO detailed engineering project-
The P-79 will have a capacity to process 180,000 b/d of oil and 7.2 MMcm/d of gas, and store 2 MMbbl of oil. The vessel will be connected to eight producer and six injector wells via a network of rigid production and injection pipelines and flexible service pipelines.

Working as module lead for flare system, export gas compression and injection gas compression modules.
Leading the team of designers and engineers, preparation and issue of technical queries, manhour's estimation for newly added scopes, vendor document review, review of 3D model, checking of equipment layout, piping 2D study sketches and SLD's ,3D model review with client, model review tags close out.

2. Thai Oil Public Company Limited (TOP) Clean Fuel Project (July 2020 to May2021)
Thai Oil Public Company Limited (TOP) is expanding the capacity of its sriracha refinery.
Increasing the efficiency of the refinery and maximizing the conversion of all residues to produce higher valuable products through the "Clean Fuel Project" (CFP).

Worked as lead piping engineer for purge systems.
This project contains HP, MP, LP oil purging and hydrogen purging for HOV, MOV, etc. This purge system contains total 2600 lines. Lead the team of modelers and engineers, designing the purge manifolds, co ordinating with client, stress and support team, inter disciplines and issuing the ISO's as per schedule.

3. Client-Kuwait Integrated Petroleum Industries Corporation, Kuwait (Feb 2017 to June 2020)
Project-KIPIC PKG V- EPC of a complete marine export terminal (artificial sea island and solid pier) for transfer and exporting of solid (pelletized sulfur) and liquid products (LSFO, USLD, ATK/DPK, PCN) into bulk carriers and tankers.

a) Field Engineering office, Kuwait (August 2018 to June 2020)
Worked as lead piping engineer at KIPIC V field engineering team, Kuwait
Managing the piping field engineering activities, site query resolutions, coordinating with inter disciplines, vendors, sub-contractors, client and PMC for the technical issues, as-built preparation, issue of Field Change Notices, issue of VISIO isometrics and local procurement for piping items.

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b) Detailed Engineering office, Chennai (February 2017 to August 2018)
Worked as lead engineer for the berths

Lead the team of designers and engineers, prepared the piping design basis, man-hours estimation, participated in model review with client, model review tags close out, checking/review of piping deliverables like plot plan, equipment GAD, piping GAD and SLD's.

4. Client-Saudi Aramco, Saudi (August 2016 to January 2017)
Project-Jazan IGCC project (Integrated Gasification Combined Cycle) detailed engineering.

Worked as isometric co-coordinator
Lead the team of designers and checkers, planning, scheduling, and releasing of isometrics.

II. Hyundai Heavy Industries, Seoul - South Korea (Feb 2015 to June 2016)
Designation: Senior piping layout engineer

1. Client-ADMA OPCO, Abu Dhabi (Jan 2016 to June 2016)
Project-Nasr phase II–well head tower, manifold tower, and process platform brown field detailed engineering.

Worked as piping engineer.
Participated in 90% model review with client and closed the tags, completed the pending 10% engineering activities and model transferred to Ulsan fabrication yard with the team of engineers and designers.

2. Client-Chevron North Sea limited, U.K (Oct 2015 to Dec 2015)
Project-Rose bank FPSO FEED engineering - FPSO contains facilities to process, store & off load crude oil and gas.

Worked as piping lead engineer.
My responsibilities are preparation of list of piping deliverables and man-hours estimation.

3. Total E&P, Myanmar (Feb 2015 to Sep 2015)
Project-Yadana gas field development project - WP4 wellhead, low compression, and medium compression platforms detailed engineering.

a) Worked as area engineer for low compression platform
3D modelling, checking of equipment layout, piping GAD and support GAD, vendor documents review and releasing of all piping deliverables.

b) Worked as engineering coordinator for Hyundai Heavy Industries
Responsibilities for engineering and installation of riser lines with coordination of Sapura energy Malaysia, TOTAL (client) and Hyundai heavy industries Ulsan fabrication yard.

III. Petrofac Engineering Services Pvt Ltd, Chennai and Aberdeen - U.K (Nov 2011 to Jan 2015)
Designation: Senior piping layout engineer

1. Client-Ithaca Energy, UK (April 2013 to Jan 2015)

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Project-Greater Stella area development project – Floating Production Facility contains facilities to receive and process the reservoir fluids from three oil fields.

Worked as area engineer for Top side Umbilical Termination Unit, launcher receiver area and chemical injection area.
Carried site survey at Remontova shipyard Poland, handled the team of designers and engineers, vendor documents review, checking of equipment layout, piping GAD, 3D model review with client, model review tag close out, planning, scheduling, and releasing of all piping deliverables.

2. Client-MAERSK Oil North Sea UK limited, U.K (Oct 2012 to March 2013)
Project-Modifications on Gryphon, GP3 and Janice FPSO's.

Deputation to Petrofac Aberdeen (U.K) for 6 months
Responsibilities are 3D review of pipe routing, isometric checking, preparation of piping MRS and vendor documents review.

3. Client-ZADCO, Abu Dhabi (Nov 2011 to Sep 2012)
Project-Upper Zakum oil field development, Upper Zakum 750k proposal and detailed engineering project - This project consists of central processing unit and satellite platforms on 4 artificial islands with cluster manifolds, crude oil processing facilities, water injection and gas lift facilities.

Worked as piping lead engineer for South Island
Lead the team of designers and engineers for preparation of piping MTO's, review of equipment layout, inch dia and inch meter estimation, man-hours estimation for all piping deliverables.

IV. L&T Valdel Engineering Ltd, Chennai - (July 2008 to Nov 2011)
Designation: Senior piping layout engineer

1. Client-ONGC, India (Jan 2010 to Nov 2011)
Project-MHN MLQ process platform and living quarters project contains MHN process platform, MLQ living quarters and flare tripods.

Worked as piping engineer.
Review of vendor documents, preparation of piping MTO, valve MTO and preparation of Piping Material Specification, 3D model review, model review tag close out, checking of equipment layout, piping GAD, support GAD and isometrics.

2. MAERSK Oil Qatar (Jan 2009 to Dec 2009)
Project-Alshaheen oil field Block-5 field development -HA & IA process platform detailed Engineering.

Deputation to L&T offshore fabrication yard, Hazera
Responsibilities are resolving site queries, updating of 3D model and piping deliverables as per site modifications.

3. Tullow Ghana limited, Ghana (July 2008 to Dec 2008)
Project-Jubilee FPSO Detailed engineering (MODEC) - FPSO contains facilities to process, store and off load crude oil and gas.

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Worked as area engineer for separation module and water injection module.

Responsibilities are review of vendor documents, 3D model review, checking of equipment GAD, piping GAD, support GAD, pipe wall thickness calculation, preparation of piping material specification, preparation and checking piping MTO, valve MTO and speciality items MTO.

V. Design Technologies Pvt ltd, Mumbai - (Jan 2005 to Jul 2008)
Designation: Piping engineer

1. Client-Ganesh Benzoplast Private Ltd, Tarapur
Project-Benzoate, benzoic acid, ferrous fumarate, and petroleum sulphate units detailed engineering.

Worked as piping engineer.
Tank form area designing, pipe rack designing, preparation of piping GAD, equipment GAD and isometric drawings, preparation of piping MTO, valve MTO and piping speciality items MTO.

SOFTWARE EXPOSURE

Drafting	:	AutoCAD, SPOOLGEN, VISIO
3D modelling	:	PDMS, PDS, SP3D
Review software	:	SPR, Navis works review
Stress analysis	:	Caesar-II

ACHIEVEMENTS

Won engineering excellence award in the role of piping engineer category at Petrofac Chennai for the year of 2014 towards Ithaca energy FPF project for cost saving in topside umbilical termination unit to umbilical connections.

PERSONAL DATA

Qualification	:	B. E. Mechanical Engineering (First class with distinction, April-2004)
D.O.B		05/06/1983
Marital Status	:	Married
Passport No	:	Z3389638
Date of expiry	:	31/08/2025
Permanent address	:	2/25, Sattanathan street Kalugumalai-628552 Tamandu, India

Given an opportunity to prove my skills, I assure you that you shall find me a sincere and competent Engineer, with a desire to learn and grow into the organization.

Yours faithfully

Place: Chennai

E. ESAKKIRAJ