



SUMMARY

- ▶ Post Graduate Mechanical engineer with 20 years of design engineering experience in Conceptual, FEED, Detailed Engineering and Project Management jobs in the Oil & Gas field.
Piping experience includes various offshore and onshore Oil & Gas projects with Qatar Petroleum (QP), Qatar Gas (QG), North Oil Company Qatar (NOC), Maersk Oil Qatar (MOQ), ZADCO, ADMA-OPCO, GASCO, IOOC and DEL.
- ▶ Chartered Professional Engineer (CEng), registered through the Institute of Engineers India (IEI) - (CEng Membership No: M-1616638; PE Membership No: PE 7003477)
- ▶ Project Management Professional (PMP), certified through Project Management Institute (PMI) - (PMP No: 2077052)
- ▶ Registered with Qatar Engineering & Consulting Offices Accrediting Committee (Reg. No. 13647)

EXPERIENCE

2019 – 2022	Senior Principal Engineer - Saipem; Chennai, India
2019 – 2019	Lead Piping Engineer - WorleyParsons; Doha, Qatar
2018 – 2018	Principal Engineer (Projects & Services) - GTC International; Kochi, India
2014 – 2018	Senior Piping Engineer - WorleyParsons; Doha, Qatar
2007 – 2014	Senior Piping Engineer - W.S Atkins; Sharjah, UAE
2002 – 2007	Piping Engineer - Toledo; Abu Dhabi, UAE
2001 – 2002	Piping Design Engineer - DOOSAN (Korea Heavy Industries Constructions Limited), UAE
2000 – 2001	Mechanical Site Engineer - Gulf Cost Electromechanical Est.; Abu Dhabi, UAE

PROJECTS INVOLVED

OFFSHORE PROJECTS:

As Piping Design Engineer for the following offshore projects:

- ▶ FEED for ZLNG Project (Petronas)
- ▶ FEED for LAM Offshore Facility Complex (Dragon Oil Turkmenistan)
- ▶ FEED for North Field Sustainability Project iFEED (QatarGas).
- ▶ Engineering Procurement Services and Construction Management (EPsCM) for various new Infill Wells, Well Work-overs, Water Alternating Gas (WAG) wells and Request for Modification projects – Al Shaheen Field, North Oil Company (NOC).
- ▶ Design Engineering for various in-house CSCC projects, seconded to Maersk Oil Qatar (MOQ).
- ▶ Design Engineering Services Contract (DESC) for various Producer, Water and Gas Injection Flowlines and Facilities Management Projects – Al Shaheen Field, Maersk Oil Qatar (MOQ) & North Oil Company (NOC).
- ▶ Engineering for US-218 Tower Capacity Upgrade (ADMA-OPCO)
- ▶ Engineering for UAD Riser Protectors, Deck Extensions and Extended Platform at LQP & CPP (ZADCO)



Resume

- ▶ PMC services for EPIC of Block 4 Riser Platform and Future Risers (Dragon Oil Turkmenistan)
- ▶ EPIC for LP Associated Gas Compressor at Halul. (Qatar Petroleum)
- ▶ Pre-bid Engineering for KJO Hout Offshore Gas Facilities EPC Contract (KJO)

As Piping Stress Engineer for the following offshore projects:

- ▶ FEED for LP Associated Gas Compressor at Halul. (Qatar Petroleum)
- ▶ Reshadat Renovation and Development project for IOOC (Iranian Offshore Oil Company).
- ▶ FEED for A-Structure South Field Development for Qatar Petroleum Development Company (QPD)

As Proposals Engineer for the following offshore projects:

- ▶ FEED for Integrated Oily water / Sludge handling system, New Drain System, Fire Protection for crude oil manifold and Pipeline replacement at Halul for Qatar Petroleum (QP)
- ▶ FEED for HALUL and NFA platform power supply through submarine cables (QP)

ONSHORE PROJECTS:

As Piping Design Engineer for the following onshore projects:

- ▶ FEED for Methanol Production Facility Kingisepp (Eurochem Russia)
- ▶ FEED for QG1 Waste Heat Recovery Project (Qatargas)
- ▶ FEED for Abu Tubul Block 60 - Gas Processing Plant Project (OOCEP)
- ▶ Fuel Farm for King Abdul Aziz International Airport Development Project. (ARAMCO)
- ▶ Engineering Services for IC to DGIC Conversion (DUSUP)
- ▶ Replacement of cooling water RTR pipeline at Abu Dhabi Refinery (TAKREER)
- ▶ EPIC of HP NG pipeline to Emirates Steel Industry, Mussaffa (GASCO)
- ▶ Addition of LPG Dehydration Unit at Ruwais Refinery (TAKREER)
- ▶ EPIC of Umm Al-Nar Station "B" Desalination Plant at Abu Dhabi Refinery (ADWEA)

As Piping Stress Engineer for the following onshore projects:

- ▶ Detailed Engineering for Abu Tubul Block 60 - Gas Processing Plant Project (OOCEP)
- ▶ Consultancy Services for Habshan Pipe Racks Structural integrity & Adequacy check (GASCO)
- ▶ Engineering Services for BC to IC Conversion (DUSUP)
- ▶ Common Low Sulphur Condensate Storage and Export Facilities (Dolphin Energy)
- ▶ Engineering for Ammonia Dispatch Line for Green Dome Petrochemicals.
- ▶ EPC for Molten Sulphur Transfer Line for Qatar Gas (Qatargas)
- ▶ FEED for Oily Water Effluent Pipeline in Dukhan Field (Qatar Petroleum)

As Proposals Engineer for the following onshore projects:

- ▶ Design of Pig Trap System for 6" Propane and 20" Raw Ethane Pipelines to Borouge for intelligent Pigging Operations (GASCO)
- ▶ Replacement of 16" & 10" Gas Pipeline in BAB Area. (GASCO)
- ▶ EPIC of Gas Supply Pipeline to Umm Bab and Dukhan For Qatar Gas (Qatargas)
- ▶ Fire Integrity Enhancement at Abu Dhabi Refinery (TAKREER)
- ▶ District Cooling Plant projects for Emirates University and Dubai International Airport (TABREED)

As Piping Site Engineer for the following onshore projects:

- ▶ EPIC of Gas supply to Al-Ain Air College (GASCO)



- ▶ District Cooling Plant project for Abu Dhabi Central Market (TABREED)
- ▶ Water Distribution Network for ADNOC Residential Complex, Ruwais (ADNOC)

NATURE OF EXPERIENCE

a) Project Management

- ▶ Project Engineering covering scheduling, project monitoring and reporting, etc.
- ▶ Intra-discipline coordination across the different departments and teams of various business centers worldwide to implement consistent design approaches and to ensure smooth interface engineering
- ▶ Tender Enquiry handling, studying enquiry document to clearly understand the scope of work, Distributing inquiry documents to relevant disciplines. Managing pre-tender and post tender discussions with clients / sub-contractors etc. Communicating with client to clarify scope and other contractual issues.
- ▶ Tender Bid preparation, Man-hours and Cost estimation for Piping discipline. Compiling and finalising the proposal using information from sub-contractors and discipline engineers etc. Follow-up on regular basis till final decision by the client.

b) Piping Materials and Layout Engineering

- ▶ Supervise, direct, coordinate and manage the engineering professionals / designers to ensure proper quality control of piping engineering deliverables.
- ▶ Piping manning and resources planning, scheduling and coordination of piping engineering activities to meet the project schedule.
- ▶ Inter-discipline coordination across Process, Piping, Instrumentation and Structural disciplines for design and engineering activities.
- ▶ Conducting Interface meetings and weekly discussions with CPY to ensure project progress as per project schedule and deadlines.
- ▶ Responsible for all the required 3D model reviews with CPY, resolving and close outs of CPY comments to ensure project completion as per SOW Contract.
- ▶ Managing and tracking the Design Scope Change and the Request for Information Processes.
- ▶ Development of Overall Field Layout, General Arrangement Plans, Equipment layouts, Piping plans, Isometrics.
- ▶ Preparation of Piping Design Basis, List of Piping Deliverables, Site Survey Reports, Tie-in Index & tie in packages.
- ▶ Preparation of Specifications, Datasheets and Material Requisitions for piping bulk materials, manual valves and special piping items.
- ▶ Preparation and checking of Piping Bill of material, MTO
- ▶ Vendors Qualification and performing Technical Bid Evaluations for materials offered by suppliers of piping items like valves, special parts, etc. Preparation of technical recommendation and purchase order specifications.

c) Piping Stress Analysis

- ▶ Preparation of Stress Analysis Work Instructions and Support specifications as per the Project / Client requirements
- ▶ Preparation and checking of Stress Critical Criteria /Line List and stress critical systems.
- ▶ Modeling of piping systems in CAESAR II and framing of load cases based on process requirements.



Resume

- ▶ Stress Analysis of critical, high temperature, high pressure, Jacketed and large diameter piping systems, Pump suction and discharge piping, Compressor, Air Fin Coolers, Pressure Vessels, Column piping, Piping to PSV's and Relief Valves, Flare headers, Occasional load cases like wind and seismic, Flange leakage calculations, etc.

d) Equipment and Material Handling

- ▶ Preparation and checking of Material Handling Philosophies, Design Basis and Specifications
- ▶ Review of Equipment and Material Handling Routes, Layouts and MTO.

EDUCATION

- ▶ Master of Technology (M. Tech) in Energy Engineering from NIT Calicut
- ▶ Post Graduate Diploma in Business Management from ICFAI University, Hyderabad.
- ▶ Bachelor of Engineering (B. E.) in Mechanical Engineering from Bharathiyar University

SPECIFIC TECHNICAL EXPERTISE / SPECIALIST COURSES

PROFESSIONAL CERTIFICATIONS & TRAININGS:

- ▶ PMP Certification as Project Management Professional from Project Management Institute (PMI)
- ▶ Certificate course in Piping Engineering from Indian Institute of Technology, IIT Mumbai
- ▶ Certificate course in Piping Design Technology from GRAI, Vadodara
- ▶ Certificate course in Reliability based design from Purdue University, Indiana, USA.
- ▶ Diploma in Industrial Safety & Management from IMAT, Chennai

COMPUTER EXPOSURE:

- ▶ SP3D, PDMS, CADWorx for design & 3-D modelling of Petrochemical Plants
- ▶ CAESAR II, AUTOPIPE PLUS for stress analysis, buried piping design
- ▶ PV Elite for Pressure vessel stress analysis
- ▶ AutoCAD, Microstation for Engineering drafting and review

PERSONAL PROFILE

- ▶ Date of Birth : June 9, 1978
- ▶ Sex : Male
- ▶ Nationality : Indian
- ▶ Passport No. : R4907048
- ▶ Languages Known : English, Hindi, Malayalam - (Fluent); Arabic - (Intermediate)
- ▶ Driving License : India, Qatar, UAE

- ▶ REFERENCES : (Upon Request)
- ▶ CERTIFICATES : (Upon Request)