

SACHIN SHIRNATH

MECHANICAL PIPING ENGINEER

CAREER OBJECTIVE

Mechanical Piping Engineer with 11 years of experience in Engineering, planning, developing and implementing industrial piping systems for Oil & Gas, Power Industry. Action-oriented with strong ability to communicate effectively with executive public and business audiences. To execute the knowledge and information into work and achieve success by making efforts to take the company to great heights. It should allow me to utilize knowledge and skills in the best possible way and should provide an opportunity to grow while contributing towards organizational growth.

SUMMARY OF EXPERIENCE

WSP Oil & Gas from Feb. 2019

- Day to day project management, carry out concept studies, review of project inputs, preparation of Piping drawings with support by a team of technical staff.
- Piping design supervisions duties include preparing scope of work, inter discipline coordination, schedule preparation, manpower forecast for various projects & proposals.
- Responsibility for monitored piping designer's quality and taking necessary actions to maintain satisfactory standards.
- Research and review design options for both technical and economic impact.
- Management of and overseeing the on-time completion of tasks assigned to expected company standards.
- Maintains regular communications with project staff to ensure work complies with drawings, specifications, internal quality standards and schedule.
- Technical & Management Co-ordination with Canada office & internal group viz. Civil, Instrument, Electrical, Process, in the management of project execution.
- Review the Piping Design documents (P&ID, GA's, Isometrics, Mechanical Equipment GA, MTO's, Line List, Tie-ins list, Supports Details, orientation drawings and vendor drawings).
- Review the plant 3D model for all design, accessibility, Maintainability, constructability.
- Conducting internal audit to review compliance of processes. Issuing NCR, observations. Preparing management reports.

Emerson Process Management from Aug. 2011 to Feb. 2019

- Checking of P & ID, Equipment Drawings, GAD, piping layout drawings, Fabrication drawings, piping isometric drawings.
- Preparation of project documents, mechanical equipment datasheets, specifications, QA, ITP documents for bought out items, Fabrication as per the project specifications.
- Leading a group of Draughtsman for the preparation of General Arrangement and Detailed drawings.
- Technical Co-ordination with the international offices (USA, Singapore, Dubai, Saudi Arabia, Nigeria) in the management of project execution.
- Fabrication Visit, Site Visit to Dubai, Abu Dhabi, Nigeria for project expedition.
- Active Coordinating internally with piping group, sub-contractors, Vendors, Clients and other disciplines for project execution.
- Responsible for Work Quantum estimation, Man Power Planning, Work scheduling required for execution of the project.
- Preparation of Pressure drop report for the piping systems.



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Vadvali Section, Ambernath.
421501. (Permanent)

🌐 <https://www.linkedin.com/in/sachin-shirnath-80285721/>

TECHNICAL SKILLS

- PDMS, AutoCAD, Cadworx Plant, Autodesk design review, Nevis work, CEASAR II, PV ELITE.
- Codes and standards like ASME, EN, PED, API, TEMA, BS, IGETD, PNGRB, NACE, SHELL DEP, AGA and OISD.
- Pressure Vessel, Tank Design
- Piping Isometric Drawing, Pipe Rack Design, Bulk MTO.
- Equipment Layout, MTO, Nozzle Orientation, Piping GAD / Isometrics.
- Familiar with Tank Farm Design, Mitre Bend calculations, PT Rating.
- Knowledge of Piping Pre-fabrication, erection Activities.

AWARDS

- Best performance award for project execution for GASCO Project.
- Best performance award for project execution for SRC Basrah Pipeline Iraq Project.

- Sub Vendor drawing, design review & technical Bid evaluation for Piping / Valve / Equipment / Specialty item
- Preparation of deviation list, CRS-comment resolution sheet with technical justifications for deviation approval.
- Pipe thickness, Line sizing calculation as per ASME, PED as per velocity recommendations.
- Pipe support, piping system analysis using CEASAR II.
- Preparing & checking of equipment orientation drawings for mechanical equipments considering equipment spacing, accessibility, operation and maintenance requirements.
- Review of Technical Requirements of Tenders. Preparation of Tendering and Bulk Piping MTO, structural MTO from P&ID's and Equipment layouts.
- Review of contract specification, project requirements, project handover with KOM.
- Responsible for Piping erection operations and pipe support installation in accordance with schedule, Procedures, Specifications, Priorities and Availability of Construction Drawings
- Routinely study, check and review all contractor scope as detailed in drawings and specifications / instructions, ensuring contractors proper interpretations and compliance with the latest AFC drawings and specifications.

Nirmal Industrial Controls Pvt. Ltd. from Sep. 2008 to Aug. 2011.

- Design & Detailed Engineering of Pressure vessel, heat exchanger with "U" Stamp Requirement.
- Performing Strength calculations & Analysis for Pressure vessels, Heat exchangers both manually and by using software like PV-Elite.
- Equipment nozzle fixing as per General piping layout arrangement. Interaction with Client and Sub vendors in technical discussions
- Familiar with manual calculation of shell and head thickness for internal pressure and external pressure, Nozzle thickness calculation, Nozzle reinforcement calculation.
- Design & Analysis of storage tanks based on API 650.
- Preparing of Purchase Requisition, Technical Requisition for mechanical equipment as per project specifications.
- Preparation of piping general arrangement layouts, Piping isometrics, supports details, Materials take off, Equipment location plans, plot plans, orientation drawings, Tie-in Index & tie in packages, As Built Documents
- Respond and provide resolution to Supplier and Fabricator queries, coordinate with QA, Procurement and Other disciplines in the management of project packages.
- Responsible for Mechanical, Piping and Structural, instruments & Tanks Estimation and proposal, involving interpretation of scope of works, drawings and specifications including preparation of material take-off, estimate material pricing, man-hours, construction equipment for technical and commercial bid proposal.
- Prepares detailed construction plans and schedule including direct/indirect manpower schedule, cost.
- Prepare technical & Commercial Bid Proposal including costing, Material Cost Request and request for Subcontract Quotations.
- Coordinate with other discipline with regard to interfacing of works to eliminate double charging and identify missing items.

MEMBERSHIP

- PMP, PMI

EDUCATION

- B.E. Mechanical (SPCE - Mumbai university)
- Exe. M.B.A – Operation Management (PUMBA, Pune University)
- P.G. Diploma in Piping Engineering (Suvidya Institute, Mumbai)
- P.G. Diploma in Mechanical Design of Process Equipment (Suvidya Institute, Mumbai)

ACHIEVEMENTS

- Successfully executed BP Angola Project under the hard deadline.
- Successfully executed NPDC, Nigeria Project with multiple stake holder.
- Nominated for the GASCO, Dubai project execution.

SUMMARY OF PROJECTS WORKED

Project : Groundbrich Compressor Station for natural gas
Client : Trans Canada Pipeline

Project : Hythe gas Plant , Canada
Client : Veresen Midstream

Project : Natural gas Compressor Station for Beiseker, Didsbury, Nordegg.
Client : Trans Canada Energy

Project : Crude Oil Piping System For NPDC , Nigeria
Client : NPDC, Nigeria.

Project : Crude Oil Piping Upgradation for SRC Basrah Iraq
Client : Altanmia Company for General Trading Ltd.

Project : Agbara-Ota Capacity Increase (ACIP) Project
Client : Shell Nigeria Gas Limited
Consultant : Global Process Systems.

Project : Greater Plutonio Development Block 18 Angola.
Client : British Petroleum Angola.
Consultant : Technip

Project : Total ABK crude oil Brownfield project
Client : Total ABK

Project : NG Branch Pipeline Khor Mor To Bazian Power Plant- Detailed
Engineering & procurement Services
Client : Qaiwan Group
Consultant : ILF Consulting Engineers

Project : Capitative Power Plant Guru Gobind Singh Refinery, Bhatinda.
Client : M/s BHEL, Hyderabad.
Consultant : Engineers India Ltd.

Project : 1X53 MW Capitative Power Plant of M/s Brahmaputra Cracker
Polymer Ltd.,
Client : M/s BHEL, Hyderabad.
Consultant : Engineers India Ltd.

Project : Natural Gas Distribution Network Inside Tata Motors Ltd, Pimpari
Pune Plant.
Client : Tata Motors Ltd.
Consultant : Globe Gas Equipment Industry Pvt. Ltd.

Project : Fuel Gas Piping System For Boiler.
Client : M/s I.O.T. Infrastructure & Energy Services Ltd.
Consultant : Indian Oil Tanking Ltd.

Project : Chain-Jazzar Pipeline Spur Line II Project.
Client : Gail (India) Ltd.

PERSONAL SKILLS

- Strong Analytical, Problem solving, Innovation, Adaptability and Quick Learning.
- Able to handle multiple assignments under high pressure and meeting Deadlines.
- Well-motivated, initiative and able to work as part of a team or on individual assignments when required.

PERSONAL DETAILS

Date of Birth : 09-Jun-1985
Nationality : Indian
Passport No : Z3669927
Date of Issue : 31/05/2016
Date of Expiry : 30/05/2026
Marital Status : Married
Languages : English , Hindi ,
Marathi
Country Visited: UAE, Qatar,
Nigeria