

**NAME**

**Sajit Viswan**

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Date : Jan 2024, Abu Dhabi

**DATE OF BIRTH:**

February 27, 1964

**NATIONALITY:**

Indian

**QUALIFICATIONS:**

B.Tech Mechanical Engineering, University of Kerala, 1986.

Certificate, Piping Engineering, IIT Bombay.

Member of Institution of Engineers, India.

Member ASME #9582776

Participant of technical discussion groups:

[www.pipingdesign.com](http://www.pipingdesign.com)

[www.eng-tips.com](http://www.eng-tips.com)

**CAREER SUMMARY:**

***Total industrial experience:*** 30+ years on  
***Petrochemical / Refinery and Oil & Gas projects***

Engineering coordinator / Project Engineering Manager.  
Major: Piping design and Plant Layout of Production and  
Transportation facilities.

**DETAILS OF EXPERIENCE:**

- Design Engineering for Concept, FEED and EPC Projects.
- Conversant with Industry codes and practices:  
ANSI, API, ASME, ASTM, BS, MSS, NACE. **Aramco** SAES, SADP. **Shell** DEPs,  
and MESC SPEs, **Total** PVVs.
- Code calculations for ASME B31.3, B31.8, B31.4, Wall thickness, Branch  
reinforcement. ASME Sec VIII, API 650, TEMA design rules and calculations.
- Pipe and Pipeline Stress analysis calculations using CAESAR II and Simflex-S for  
calculations based on ASME B31.3, 31.4 codes.
- Piping materials - Engineering and Logistics.  
Metal and Plastic piping component specifications. Plastic pipe pressure rating  
determination, Design life based on weep pressure test criteria.  
Material requisitioning and evaluation of technical bids.
- Plant and Piping Layout. Conversant with Plot plan and Design reviews.
- Mechanical feasibility studies on systems and facilities.
- Well oriented in multi discipline work processes.
- Excellent, English communication and Technical writing skills.
- Is capable of implementing IT oriented systems for engineering information  
management for the EPC business. Can support implementation of SAP systems on  
material cataloging and procurement.

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- MS office (Advanced user) - Excel, Word and Access, Caesar II, SP3D Smart plant review, Smart Plant Materials. AspenTech OptiPlant 3D quantity estimation.

## **FIELDS OF EXPERIENCE:**

Upstream Oil and Gas processing, Tank farms, Jetty loading and unloading facilities, Off-shore platform and FPSO.

- ▶ **ADNOC Offshore Abu Dhabi** as PMT Piping Engineer, Technical Standards Sept 2013 onwards to Aug 2023.

Worked as the Company Piping PMT on the Capacity enhancement Train 5, Zirku Flare system replacement FEED project and tendering services to EPC. Discipline Engineering on UZ 750 EPC2, EPC3, UZ Well hook ups, West Island Drilling services Acid Injection. Management of Technical Standards with the Engineering Support Technical Standards team. Creation of ADNOC Offshore Technical Standards system. Content management in the unification of Standards from ZADCO and ADMA and the adoption of ADNOC Group Engineering Specifications. Manage Piping Class and Valve Data sheets across projects. Technical Consultant on Piping and Mechanical related internal advice. Creation of procedures for the management of plant Changes MOC and subsequent deployment of workflows to Maximo and SAP MOC. Coordination and assistance to Operations Support and Asset teams on the MOC process. Management of the Business Continuity Plans and Impact assessments worksheets for Central Engineering CED Teams. Management of CED Dashboard for the Division KPIs and other key performance indicators.

- ▶ **Tebodin ME Abu Dhabi** as Piping Engineering Discipline specialist (From April 2011 to Sept 2013)

Lead Engineer on Qatar Petroleum Mesaieed Butane transfer to QFAC and QCHEM

Project Manager for Borouge Olefin plant Design deficiency and Vibration study.

Lead Engineer for Zadco produced water treatment project.

Engineering coordinator, on the Gasco Habshan Acid gas KO drum construction.

Project Manager for ADMA Das Spheroid area retrofit piping replacement.

Consultant Engineer to Various Projects for Gasco, Takreer and other clients.

Project Manager for Gasco Habshan Nitrogen Let down and distribution.

Project Engineering Manager on ADNOC Distribution, Feasibility (Concept) study for the New Aviation Fuel depot at the Abu International Airport.

Lead Piping Engineer for the ADMA Das Island New Nitrogen Plant and the Nitrogen distribution network.

CCC Abu Dhabi as Lead Design Engineer Oct 2009 to Mar 2011

Dolphin Energy through Veco / Ch2MHill as Sr. Piping Engineer April 2009 to Oct 2009.

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► **Technip Abu Dhabi** as Sr. Piping materials engineer (From Jan 2005 – Jan 2009).

Technical services on Dolphin Energy plant retrofit projects during warranty plant shut down, Qatar.

Materials and Specification engineer on various ADMA, ZADCO, Total and Shell jobs.

*The Petrobras Brazil, P52 FPSO Offshore project:*

Isometric and MTO coordinator.

*Qatar Gas offshore QG-II project:*

Prepared Valve data sheets for the Qatar Gas offshore QG-II project.

*TOTAL AKPO FPSO project, Technip Paris:*

Material engineering work for the, Set up piping material rule sheets, piping classes for the Intergraph Marian material management system.

Valve and special parts data sheets.

Technical specification of sea water intake hose assembly for the FPSO.

Review of special parts vendor bids and preparation of technical bid tabs.

*Dolphin EGDS FEED Project:*

Endorsement-review for the bid of the detail engineering job.

*Qatar Petroleum – Ras Gas 3 LNG trains expansion project:*

MTO and Isometric coordinator.

*ZADCO Projects:*

(Upper Zakum) gas injection pipeline project:

Sub sea valve specification

*ADMA Projects:*

Das Island Crude pump:

Piping class and material specifications.

*ADGAS Offshore associated gas project (OAG):*

Valve data sheets, Marian rule sheet logistics.

*Iso Octane Jebel Ali revamp project:*

Piping material vendor offer reviews and technical bid tabs.

*ADCO BAB Gas compression project:*

Piping material class – Project based on Shell basic engineering.

*Total ABK, project for the Installation of Additional Gas Turbine unit on offshore platform:*

Complete material engineering from MTO to requisitioning and follow up with site top ups.

Parsons Oman as Sr Piping Engineer on PDO Projects Nov 2004 to Jan 2005

Tebodin Oman as Sr Piping Engineer on PDO Projects Sept 2003 to Nov 2004

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► **Parsons Kuwait**, PMC contractor to KOC as Design Engineer Piping (from May 2002 – Mar 2003)

Responsible for FEED package technical specification preparation and Contractor document submittal reviews related to the following:

- Piping material specifications
- Evaluation of Pipeline external / Internal coating procedures and repair procedures. PE lining. and Heat shrink sleeves.
- Pressure testing and pigging.
- Pipeline Design and construction.
- Pipe supports.

Involved in the following projects:

- Crude booster station BS-131 Installation, Engineered by Snamprogetti.
- Crude export facilities – Modification of existing specifications for Submarine pipelines, CALM Buoys, Ship loading hoses.

► **Bechtel, Al-Khobar, Saudi Arabia** as Lead Engineer (from July 96 - Mar 2001)

- [Aramco Riyadh refinery](#). Yield improvement project.

Project involved the replacement of the air based control system for the crude heaters to a steam based system

- [Shoiba Phase II Power and Desalination Plant](#) for SWCC.

Field engineering - Rectification of supporting problems of RTR piping.  
Field run small bore piping isometrics and material take-offs.

- [Ibn Rushd](#) (SABIC) PTA Aromatics project, Yanbu.

Lead Engineer, was responsible for the design of piping systems for the Off-plot work done from the Bechtel Yanbu design office.

**Project involved the design of the following facilities,**

- The [Royal commission corridors](#) export and feed stock supply pipelines from/to Ibn Rushd to/from Yanpet, Aramco plants and the Marine jetty.
- Inside [Aramco NGL](#) plant for the Propane and Butane feedstock supply: pumps, metering and proving facilities, layouting of the ESD (ZV) valve system outside the hazardous area. Propane back up system: Pumps, [heaters](#) and condensate transfer systems.
- [Product Export and import facilities](#): Interfacing the product export and imports pipelines with the new marine hose tower at the jetty and the ship loading vapour recovery system. Vent system comprising a system of sloping lines, a knock out drum and a vent stack. The slops extraction and transfer to the plant incinerator. ESD and surge relief valve systems. Pig launcher receiver systems. Extension of the fire water header, relocation of the jetty remote operated fire water monitors and provision of additional fire hydrants and monitors.
- Hydrogen supply from [Yanpet](#): Supply line from the cold box tie-in to the pipelines.

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- Job functions included: All areas involved the preparation of conceptual layout studies for the respective owner approval based on a preliminary flow diagram. Provided technical input for the preparation of process PIDs, location of tie-in points and its locating on existing plant PIDs. Review of mechanical equipment, interfacing piping. Development of new design drawings and revision of existing drawings, viz.: Plot plans, Piping GAs, ISOs, P & Ids, Documents search, Compilation of input information for preparation of drawings, Revision of drawings based on clients comments, Aramco review comments, stress review comments, Checking of drawings, Preparation of MTOs, MRs, FMRs (Material requisitions), Material reconciliation exercises based on construction shortages and surplus availabilities, Technical Bid Evaluations (TBE) of vendor offers.
- Devised a database system using **Access** for the compilation and summation of MTO and material management for the project.

H&G Bombay as Piping Engineer April 1995 to Jun 1996.

▶ **Petromin Shell Refinery, Saudi Arabia** as Mechanical Piping Engineer (Assignment Duration: Nov 1992 - Nov 1993).

- Mechanical Piping Engineer at the Petromin Shell Refinery Company at Jubail Saudi Arabia in the Technical Services Department.
- Involved in the design, plant survey, and document search for plant modification design request (PMDR) Jobs. Work included in the revision of existing layout drawings and fabrication isometrics based on PMDR job descriptions, mark-ups of PIDs and piping layout drawings. Up-dating to As-built of existing PIDs.
- Performed stress analysis for re-routed / modified lines for Hot, SS, pump, and rack lines.
- Was involved in the Third crude tank project for the design & construction of piping, new equipment and tie-ins to existing piping system by hot tap operation. Performed hot tap calculations as per the requirements of the **Shell** engineering Department. Was responsible for review of contractor drawings for mechanical / piping.
- Review and assessment of variation claims made by contractors. Was also involved in the repair work of debutanizer column damaged during the fire in the hydrocracker unit- compilation of drawings for repair work. Ordering of piping materials, Column tray and internal parts.

Satech CE Saudi Arabia as Piping Engineer Apr 1991 to Oct 1991.

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▶ **Uhde India Ltd. Bombay, India** as Mechanical piping design engineer (Assignment Duration: Oct 1988 - Apr 1991).

- Mechanical piping design engineer, involved in piping and mechanical static equipment design.
- Prepared and checked design calculations, equipment specifications and data sheets for Tanks, Vessels, Columns and Exchangers. Reviewed fabrication drawings.
- Performed piping stress calculations. Designed pipe supports structures. Prepared and compiled the company structural pipe support standard.
- Prepared and checked piping GAs and Isometrics, Consulted and provided PID mark-ups for changes required by piping to process.
- Compiled piping BOM summaries.
- Prepared a structural pipe support standard. Provided pipe supports for piping based on standard and special supports. Designed and prepared sketches for special supports. Made computer programs in Dbase for support BOM take-offs for standard supports and special supports.

Involved in the following projects:

- Formaldehyde project for HOCL Rasayani India.
- Capro-Lactum project for GFSC Fertilizers Gujarat India.

▶ **Asian Tech Ltd. Bombay, India** as Mechanical Engineer (Assignment Duration: Dec 1987 - Oct 1988)

Mechanical Engineer, maintenance and overhaul of machinery viz.: Pumps, Compressors, Diesel engines and other construction equipment. Procurement and maintenance of service parts inventory. Allocation and control of work at the workshop.