

PRASHANT S. SAWANT

Senior Piping Designer



Summary

Around 24 years of experience in mechanical/piping basic and detail engineering of Oil & Gas, petrochemical and industrial plants of various types with knowledge in Industry standards.

Experienced in:

- Experience includes Onshore FEED and Detail Engineering of Oil and Gas Projects, Succeed the projects, within the constraints of scope, quality time and cost to deliver specified requirements.
- Organizing the design & drafting effort on a project, execute designs & ensuring the drafting & checking of piping drawings.
- Provide assistance and design inputs to lead engineer in project review meeting, vendor meeting etc. Provide design inputs to drafting team and check design parameters in the drawing. Coordination with project team members.
- Responsible for Training/Developing the skills of the team members in AutoCAD; generating Section drawing in AutoPLANT , ISO, Reports like Line List, Valve List, Equipment List.
- Planning, Monitoring, Distribution of Work, Quality Check. Consistency checking between databases like Vendor drawing, Instrument.
- Piping activities and deliverables include – Piping Layout, isometrics, BOM, Mechanical Vessel and Column drawing, Awareness of AutoPLANT 3D Model.
- Currently working as a lead for Canada West project.

Experience Highlights

May 2014 – Present

Working as a Piping Lead for project, Scope of work for the project involves,

1. Project – AOC Leismer 40k Expansion CPF FEED (Canada)

- 1) 3D Equipment & Piping Modelling (in AutoPLANT V8i)

- 2) Tie-In list generation
- 3) Locating Tie-Ins using existing model & mark P&ID as per the same
- 4) Isometric extraction for stress critical lines
- 5) Co-ordination with HO lead

2. **Project – SUNCOR VAULT FB 2.0 (Canada) This is feed project**

- 1) Regular and constant communications over the project lifecycle with HO.
- 2) Preparation of Clash Check report.
- 3) Man-hours estimation and tracking.
- 4) Preparation of Piping Isometrics and Piping Layouts.

3. **Project – SUNCOR S3ED (Canada): This is detail design project**

- 1) 3D Piping Modelling using Single-line model provided by HO (in AutoPLANT V8i)
- 2) Isometric checking.
- 3) Preparation of BOQ.
- 4) Preparation of Piping layout.
- 5) Co-Ordination with HO lead

4. **Project NABIYA FIELD GRAND RAPIDS PAD S01: This is detail design project**

- 1) Regular and constant communications over the project lifecycle with HO.
- 2) Coordination with other discipline (Process, Stress and Civil)
- 3) Man-hours estimation and tracking.
- 4) Model review against process PIDs and continues change in design as per Client requirement.

5. **SAGD-PILOT: This is Aspen Pilot Facility Greenfield project. Heated Vapex (H-Vapex) recovery technology for heavy oil developed by the Upstream research company ((URC) for use in Alberta Oil Sands. The Aspen H-Vapex pilot project consist of a single well pad including central processing facilities with 02 well pairs & approximately 1-2kbd (1000-2000 barrel per day) production.**

- 1) Regular and constant communications over the project lifecycle with HO
- 2) Coordination with other discipline (Process, Stress and Civil)

- 3) Man-hours estimation and tracking.
- 4) Model review against process PIDs and continues change in design as per Client requirement.

6. **Project – L74CC & L45CC (Cheecham Terminal) Enbridge, Canada.**

Design of a new CTIB building, 1 Booster pump , 1 meter skid , 1 prover for line 45CC and 2 meter skid , 1 prover, 1 manifold for line 74CC. Development of 2D deliverables from SP3D as per Enbridge standard.

- 1) Regular and constant communications over the project lifecycle with HO.
- 2) Plans and sections development from model (post 60%) for IFC issue.
- 3) Isometric development from 3D Model, checking against P&IDs and submit mark-ups to home office
- 4) Tie Point List (post 60%) updating.

7. **Project – ConocoPhillips- Surmont Phase 2 Commercial (Well Pad 267)**

Working as a Piping Lead for Well Pad 267 project, Scope of work for the project involves , back drafting and checking as required to updating existing project deliverables to final deliverable status. Extraction and production of new project deliverables, including checking and Back drafting as required on SP3D. Progress reporting, discussion with project management and with client (HO) for technical integrity/clarification. Interaction with the HO leads Project team and accordingly coordinating with the team members.

- 1) Regular and constant communications over the project lifecycle with HO.
- 2) Regular and constant deliverable spot checking feedback to HO.
- 3) Provide HO with details related to schedule or budget issues when applicable.
- 4) 2D deliverables including PDF,P&ID
- 5) Completion/ input to tools/ spreadsheets related to progress measurement and reporting

8. Project - CTX (Cheecham Terminal Project) Enbridge, Canada.

Working as a Piping Lead for CTX project, Scope of work for the project involves,

Design of a new Instrument Shelter, incoming connection piping from the PN100 Line 75 mainline to a new manifold inlet header, surge relief system on the new inlet piping, connection piping from Manifold 204 to two existing Cheecham and a new tank, including design of the tank, foundation, and secondary containment. Modification to the existing foam building (851-BLDG-1) to accommodate the new tank. Design of a new booster pump manifold to allow for delivery from the new tank and two existing tanks to initiation station.

- 1) Regular and constant communications over the project lifecycle with HO.
- 2) 2D deliverables including PFD, P&ID
- 3) Key Plan (post 60%) Updation
- 4) Ortho Drawing extraction from model and development (post 60%) for IFC issue
- 5) Section Drawing extraction & development (post 60%)
- 6) Isometric development from 3D Model, checking against P&IDs and submit mark-ups to home office
- 7) Tie Point List (post 60%) updating.
- 8) MTO Checking.

9. Project – RHIP (Rabab Harweel Integrated Project)

The engineering scope for this phase involves completing the design for execute phase of the project, off-plot facilities of the RHIP plant, the detailed high level scope of work 3 distinct oil fields for Production as well as Injection Namely Rabab,Sakhiya and Dafaq. Numerous Gathering wells (production wells) and Injection wells connected from RGMS (Remote Gathering Manifold Stations) and RIMS (Remote Injection Manifold Stations), All these facilities (RGMS/RIMS) are connected to either RHIP or HMPS (Harweel Main Production Station); Total numbers of wells are 66 nos.

- 1) Piping GA checking & ISO Checking.
- 2) Preparation of piping layout.

10. **Project – HUMMA, ARQ, South Fuwaris Future Growth Project**

Individual well production is gathered at sub-centres located throughout the field. Crude oil from wells is lifted using electrically driven pumps and flows to the SCs where the crude is processed to remove solution gas and bulk water. Ratawi and Burgan crude oil is sent to the Main Gathering Centre by the separator pressure. Eocene crude oil is stored in near-atmospheric pressure tanks and pumped to the MGC.

The brief scope of work involves new facilities like manifold headers, 2/3 phase production separator, surge separator, HP gas scrubber, HP flare and LP flare with associated utilities system, new tank facilities, 3 pumps, closed drain system piping, oily water sewer pit, chemical injection skid with pumps, instrument air compressor, control and switchgear building with UPS and DG set at sub-centre - 20, installation of new manifold at sub-centre – 40, 41 and 42 along with the adequacy check of existing equipment in sub-centre -20. Optional scope is also considered for water disposal from the three phase production separator at SC-20.

- 1) Developing Plot Plan, Equipment Layout, Piping layout & sections.
- 2) Piping GA checking & MTO activities.
- 3) Coordination with other departments.

2007- 2014

11. **Principal Designer, Mott MacDonald Pvt. Ltd., Mumbai (India)**

Project–Hindustan Petroleum Corporation Limited., (Bhopal LPG Plant)

Project Cairn Aishwarya Field Well Pad Project. (Rajasthan, India).

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Project – BGRE, AKAS, Gas Gathering station, Iraq

Project – Nimar C Fullfield water injection project, Oman

Project – SOHAR PRE-BID MTO, Oman

Project – OXY (Occidental of Oman inc.), Oman

Project – ISPRL (Indian Strategic Petroleum Reserves Limited), PADUR PRE-BID

- 1) Developing Plot Plan, Equipment Layout, Piping layout & sections.
- 2) Piping GA checking, Isometric checking & MTO activities.
- 3) Coordination with all other departments.

- 4) Plant Layout / Piping discipline activities for detail design work
- 5) PDMS 3D model reviews to check suitability of the design.
- 6) Pipe support detailing and preparation of special pipe supports.
- 7) Physically checking the dimension on site and preparing sketches for drawing.
- 8) Minor Design changes done on PDMS as per design requirement

1999- 2007

12. Piping Designer, Flat Product Equipment (I) Ltd., Mumbai

Project – Union Steel Ltd. China

Project – Young Kong Malaysia.

Project – Bhushan Steel, Khopoli

Project – Uttam Galva, Khopoli

- 1) Preparing piping general arrangement
- 2) Modeling on Auto plant
- 3) Design & Development of Equipment Layout according to the process
- 4) Preparation of Nozzle Orientation for various equipment's
- 5) Checking of Vendor drawings
- 6) Checking of Civil Load Data (CLD) sheets
- 7) Preparation & checking of Isometrics
- 8) Piping Supports
- 9) Piping Supports

1997- 1999

13. Piping Draughtsman, Vijay Fire (I) Ltd., Mumbai

Project – MRPL (Mangalore Refinery petrochemical Limited)

- 1) Preparing pump House General Arrangement drawings & Foundation Plan.
- 2) Preparing piping general arrangement related to fire fitting system.

3) Process & Instrumentation Drawing.

Education

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| 1992 - 1993 | SSC | Mumbai | |
| 1993 - 1995 | HSC | Mumbai | |
| 1995 - 1997 | NCVT - ITI | Sharadashram Vidyamander | Dadar-Mumbai |

Specific Technical Expertise/Specialist Courses

AutoPLANT
Navisworks Freedom
AutoCAD