

SUMANA MUKHOPADHYAY

WORK EXPERIENCE

Total : **14 Years**

Relevant: **12 Years**

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AREA OF EXPERTISE

Project Management

Proposals & Estimation

Steam System

Process Engineering

Piping Engineering

Pressure Vessels

TRAININGS

Pressure Vessel Design from INS

ISO 9001:2015 from TUV Nord

COMPUTER SKILLS

AutoCad2016

Compress Build 7510

Caesar-II V7.0

Navisworks

MS Office

PERSONAL SKILLS

Initiative

Troubleshooting

Enthusiastic

Self Learner

PROFILE SUMMARY :

A competent Project Manager with excellent communication, organization and co-ordination skills. Possessing a proven track record of executing projects with utmost client satisfaction and ensuring that work is carried out in accordance with the SOPs and client requirements. Efficient collaborator who moves project forward in a competent and technically sound manner.

KEY SKILLS AND COMPETENCIES :

- Serving as Project Manager on medium sized projects.
- Served as Lead Engineer for medium to large sized projects.
- Development of Proposals, estimation & project execution strategy.
- Managing, guiding & motivating multiple teams and providing technical support on unusual or difficult issues.
- Guiding team for the development of HMBD, P&IDs, Calculations, Equipment Layout, Specifications, Piping Layout, Supports etc.
- Responsible for reviewing all the drawings and documents generated by the team as per Client requirements and the SOPs.
- Responsible for inter-disciplinary co-ordination & resolving the technical issues.
- Working closely with Client to resolve challenges during the Project Execution while maintaining good relations with them.
- Frequent co-ordination with Client to ensure timely completion and adhering to the technical as well as client requirements.
- Evaluate new systems, procedures & guide for development of SOPs and executing internal audits
- Identify training needs, planning & execution of Trainings.

ACHIEVEMENTS :

- Leading Process Team for the development of about 165 P&IDs, pipe sizing, pressure drop calculations, Pump sizing, PHE sizing & other process calculations for 2 x 120000 TPA Fiber Plant in a very short span.
- Won an additional Purchase order value equal to 40% of Original Purchase Order by providing an excellent back up of Change records prepared by me.
- Guiding & Managing Piping Teams during MTO estimation & Isometric Submission of about 10000 pipe lines for 2 x 120000 TPA Fiber Plant which lead to my new role as Project Manager.

WORK EXPERIENCE

1) PLANTECH CONSULTANT PVT. LTD., Pune: Nov 2011 – Till Date,

PROJECTS HANDLED AS PROJECT MANAGER FROM AUG 2018 – TILL DATE:

- i) 1x175 MW & 1x60 MW CPP, JSW Dolvi for Thermax Ltd. (On-going)
(Scope: Boiler & TG Area Piping Engineering including 3D Modeling)
- ii) 2x65 MW CPP, GNACL for Thermax Power Division (On-going)
(Scope: TG Area Piping Engineering)
- iii) UF-RO Plant for DTA-ETP DBN Project (Phase 2) for Thermax Ltd. (On-going)
(Scope: 3D Modeling & Piping Engineering)

KEY RESPONSIBILITIES AS PROJECT MANAGER

- Review of enquiry feasibility, preparation of project scope, quotation & proposals, review of Purchase orders after receipt of order.
- Review of client documents & Coordinating with Client for technical clarifications.
- Assisting in development of project schedule & resource planning.
- Managing Teams consisting of Lead Engineers, Jr. Engineers, Sr. Designers, Designers, Draftsmen, assigning tasks & monitoring completion of tasks.
- Monitoring of workflow through project review meetings, review of manhours & adjustment of timelines & resources considering the needs of both client & the project team.
- Guiding teams for development of project documents, calculations, specifications, layouts, stress analysis, supports, 3D Model etc.
- Review of all deliverables through application of QA/QC documents to ensure quality assurance.
- Providing technical direction to the teams throughout the project execution & resolving internal or external issues.
- Coordinating with various disciplines & holding interdisciplinary meetings to ensure timely completion of the project activities.
- Working closely with clients to resolve challenges around project development, to achieve project milestones & procurement assistance.
- Review the requirement of outsourcing of activities, floating enquiry, assisting in preparation of Purchase orders.
- Monitoring the workflow of vendors to ensure timely completion & review of vendor documents to ensure quality assurance.

PROJECTS HANDLED AS PROJECT LEAD ENGINEER FROM NOV 2011 – AUG 2018:

- i) 2x120,000 TPA Viscose Fiber Plant, APR Rayon, Indonesia
(Scope : Viscose, Spinbath, Spinning Buildings & Balance of Plant; Basic Engineering including P&IDs, Equipment sizing and specifications for Pumps, Tanks, PHEs, PRDS etc. & Complete detail engineering including 3D Modeling)

ii) 24 KLPD Distillery Plant, Royal Casks Distilleries, Srilanka

iii) 2 x 30 MW Thermal Power Plant, PT Mega Daya Tangguh, Indonesia for Thyssen Krupp Industries

(Scope for ii & iii : TG Area & Balance of Plant; Basic Engineering including P&IDs, Equipment sizing and specifications & Complete detail engineering)

iv) 3 x 110 TPH HRSG, BPCL, Kochi for Thermax Ltd.

(Scope : Boiler & Rack Piping Engineering including 3D Modeling)

v) Petronas Rapid Project, Malaysia

vi) Clean Fuel Projects, KNPC, Kuwait

(Scope for v & Vi: Design & Detail Engineering of Pressure Vessels)

vii) 3 x 55 MW Balingasag Power Plant Project, Phillipines for Thyssen Krupp Industries

(Scope : Steam Piping Engineering)

viii) 1 x 45 MW CPP, Orient Cements, Gulbarga for Thyssen Krupp Industries

ix) 1x 33 MW Captive Power Plant, Gulf Cement Company for Thyssen Krupp Industries

(Scope for viii & ix : TG Area & Balance of Plant Piping Engineering)

x) 2 x 90 TPH AFBC, TNPL for Thermax Ltd.

xi) 37 TPH FM Boiler, Toyo Thai Corporation Ltd. for Thermax Ltd.

xii) 85 TPH AFBC Boiler, Isabela Biomass Energy Corporation for Thermax Ltd.

(Scope for x, xi, xii : Boiler Piping Engineering)

xiii) Illovo Distillery for Praj Ltd.

xiv) Associated Alcohol for Praj Ltd.

(Scope for xiii, xiv : Steam piping Engineering)

KEY RESPONSIBILITIES AS PROJECT LEAD ENGINEER

- Managing multiple projects from conception through to completion, planning and scheduling teams for carrying out the same.
- Ensuring that all engineering work is carried out in accordance with specifications, contractual requirements & SOPs.
- Review of Design Calculations like pressure drop, pipe sizing, pump sizing, PHE sizing, pressure vessel & tank calculations etc.
- Preparation of specification for various equipments like Cooling tower, Pumps, PHE, piping, valves, Expansion Joints, strainers, PRDS etc.
- Development of Specifications of various packages like HVAC, Compressed air system, Fire fighting etc.
- Development of Plot Plan, Equipment layout, piping layout, MTO, stress sketches, Supports etc.
- Review of all input documents including Vendor Drawings & Documents.
- Checking of all deliverables as per SOPs & checksheets.
- Supporting team for the timely Model reviews and maintaining the correctness by following SOPs.
- Coordinating with Client for the project requirements & resolving the issues throughout the tenure of the project.

2) DEVELOPMENT CONSULTANT PVT. LTD., Kolkata: Sep 2009 – Nov 2011,

Projects Done:

- i) 2x685 MW Thermal Power Plant for GMR Energy
- ii) Raw Water Intake of 6X150 MW CPP at Mahan, MP
- iii) Detail Engineering of Balance of Plant for 1x350 MW TPP, KVK NILACHAL PVT. LTD., Orissa
- iv) Pre-Bid Engineering of Balance of plant for 160 MW CCPP, Rajasthan Rajya Vidyut Utpadan Nigan Ltd., Ramgarh
- v) Pre-Bid Engineering of Balance of plant for 250-360 MW CCPP, Agura Independent Power Project, Nigeria
- vi) EPC Specification preparation for 1x800 MW STPP, Gujarat State Electricity Corporation Ltd.
- vii) EPC Specification Preparation for 2x660 MW, Simhapuri Phase-III

KEY RESPONSIBILITIES

- i) Preparation of Design Basis reports and performing various design calculations for equipments and piping.
- ii) Preparation of Package/Equipment Specifications and floating tender.
- iii) Review of Bids and arranging bid clarification meetings
- iv) Preparation of Tender Evaluation Report.
- v) Review of Vendor drawings and documents.
- vi) Developing Plot plan, equipment layout, piping layout etc and performing stress analysis of piping.

3) FOSTER WHEELER BENGAL PVT. LTD., Kolkata: June 2008 – Sep 2009

KEY RESPONSIBILITIES:

- i) Preparation of piping layout & isometrics as per the General Layout of the plants and as per P&ID.
- ii) Checking isometric drawings prepared by designers.
- iii) Performing stress analysis using Caesar-II & Preparation of support schedule.
- iv) Preparation of stress analysis report.
- v) Preparation of Support Sketches.

4) SANDPIPER CONSULTANTS PVT. LTD., Durgapur: April 2007 – June 2008

KEY RESPONSIBILITIES:

- i) Preparation of piping layout as per the General Layout of the plants and as per P&ID.
- ii) Preparation of Isometric drawings along with MTO as per layout and P&ID.
- iii) Preparation of piping layout as per the General Arrangement of the plants and as per P&ID
- iv) Stress Analysis using CAESAR-II, preparation of Stress Analysis Report.
- v) Preparation of Support Schedule
- vi) Designing Tanks as per Code API 650 & IS 803.
- vii) Designing small pressure vessels As per Code ASME SEC VIII Div.1

5) FORCE MOTORS LTD., Pune: Jan 2005 – Aug 2006

KEY RESPONSIBILITIES:

- i) Designing of Sheet Metal Tools and Spot Welding Fixtures including assembly drawing, details and bill of material.
 - ii) Co-ordination with the manufacturing group for each tool and sorting out the problems that arises during machining.
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EDUCATIONAL QUALIFICATION :

- **BE MECHANICAL** from **GOVT. COLLEGE OF ENGINEERING PUNE (COEP), MAHARSHTRA** in **2004**
 - **HSC** from **KENDRIYA VIDYALAYA VARANGAON ORD. FY. (CBSE), MAHARASTRA** in **2000**
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PERSONAL DETAILS

Date of Birth	:	10 th January 1983
Address	:	J-302, Dwarka Vishwa, Indrayaninagar, Pune-26
Languages	:	English, Hindi, Bengali, Marathi
Hobbies	:	Web surfing, Arranging events & trainings
Passport	:	M5592797 Valid till 11 Jan 2025
