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# PROFESSIONAL Summary

14+years of experience in detail engineering of chemical and EPC projects in the field of Piping and project activities mainly in to Piping related experience in LAYOUT,MTO,BOM and use of international and national codes .

**Experience in Chemical Plants Projects**

* Preparing and finalization of plant layout according to international codes like ASME, IS codes.
* Preparing piping layout along the pipe rack from Boiler to clean rooms and reactor blocks.
* Preparing plant layout for ammonia chiller plant and routing along the pipe rack up to production blocks.
* Routing, Selection and Sizing of Clean utility systems such as distillation (WFI) plant, pure steam generator, PW water system & other systems such as water treatment plant(DM plant), ETP as per ASME BPE regulations.
* Actively participated in design review meeting with R&D team for development of new API production blocks.
* Well conversant with all clean room and production blocks equipment’s like Centrifuges, Vacuum pumps, Dryers and reactors etc.,
* Participating in Monthly forecasting sessions to update Management on source requirements.
* Providing monthly reports to management of engineering staffing, training, assignments and goal completions shared cross-functionally.

**Experience in EPC & POWER Projects**

* Review and finalization of all construction deliverables (Plot plan, Isometrics, Piping GADs, Special Support, Piping MTO , Work volumes , etc.)
* Preparing MTO AND BOM as per project and with the help of ASME CODES.
* Review and evaluating P&ID Mark-ups, MTOs, specialty items, bought out list towards estimation & procurement. Review of supplier offers/vendor documents.
* Well conversant in use of International / National codes and Standards related to layout and piping engineering like ASME AND EN CODES,
* Developing 3D models in SP3D/PDMS.
* Preparing and reviewing of Pipeline alignment sheets, route map and schematic drawings.
* Preparing welding diagrams and Special Nozzles using ASME, IBR.
* Preparing Technical Specifications for Piping Fabrication, Valves, Hangers, TDC and other relevant specifications.
* Working with teams to develop engineering budgets estimates for work share projects.
* Anticipating project problems and update client in advance.
* Reviewing site works and preparing the punch list for the construction contractor.

**Experience in PROJECT/SITE ACTIVITIES**

* Conceptualize de-erection & erection activities. On site co-ordination during project engineering & Construction. Assisting site for Construction activities, collection of inputs from site.
* Worked on site for rectification works to be carried out and coordinate with client and other parties to complete the piping deliverables.
* Coordinating with supply chain and marketing team for piping deliverables.
* Managing the Pipeline Engineering activities in accordance with project requirements within the assigned budget, time schedule and quality standards.
* Reviewing site works and preparing the punch list for the construction contractor.

# EXPERIENCE

* Working as Manager-Piping with **L&T MHPS BOILERS, CHENNAI**, from March’10.
* Worked as Design Engineer with **BIOZEEN LTD, BANGALORE**, from Dec’08 to Jan 10
* Worked as Project Engineer with **AL-TAWLEED ENERGY AND POWER COMPANY (JV OF TATA PROJECTS AND AL-MASHREEK COMPANY)**, Jeddah, Kingdom of Saudi Arabia from Aug’07 to Dec’08
* Worked as Project & Design Engineer with **SMS PHARMACEUTICALS AND CHEMICALS,** Hyderabad from Jun’05 to Jul’07.
* Worked as Project & Maintenance engineer With **HETERO DRUGS**, Hyderabad from Aug ’04 to May’05

# EDUCATION

* **Bachelor of Engineering in Mechanical Engineering from** **Madras University.**

TECHNICAL EXPERTISE

**Operating System :** Windows

**Software’s : SP3D, SPR, PDMS 11.6,** Micro Station V 7.1, & AUTO CAD

#### PROJECTS

## Experience at L&T MHPS BOILERS (EPC) Mar’10-Till date

## Projects handled

* 3X660 MW NUPPL GHATAMPUR SUPER CRITICL PROJECT
* 2X660 Mw MPPGCL SUPER CRITICL PROJECT
* 2X660 MW RRVUNL SUPER CRITICL PROJECT
* 2X660 MW JAYPEE NIGRIE SUPER CRITICL PROJECT

## JOB ROLE as Team Lead and Team Member

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* Checking & Issue of Isometrics (P&ID Check, Line Routing, Support Check, Special requirement check etc.)
* Preparing Technical specifications for Pipe fabrications, Technical Delivery Conditions, Valves etc.,
* Overall project review with respect to schedule and planning manpower for completing activities in given time.
* Review the plant 3D model from design, accessibility, Maintainability and constructability using Smart Plant Review (SPR) Software.
* Providing construction (IFC) and fabrication drawings (spool drawings) with sufficient details to prefabricate and install piping systems.
* Preparing Bid Evolution Reports for vendors.
* Preparing and reviewing valves datasheets, Vendor technical specifications and bidder’s quotations.
* Provide Piping Inputs to P&ID, Line Designation Table (LDT), and Instrument specification sheets (ISS).
* Preparing welding diagrams and Special Nozzles using ASME, IBR.
* Selection of Pipe Supports, Special Support & Spring Hangers.
* Preparing GADs for Piping Systems.
* Visiting site for resolving the Field Problems or changes Due to Clashing, mismatching, lack of materials.
* Modeling the Piping routing with the help of SP3D.
* Preparing welding diagrams and Special Nozzles using ASME, IBR.
* Selection of Pipe Supports, Special Support & Spring Hangers.
* Preparing GADs for Piping Systems.

## Experience at BIOZEEN (Consultancy) Dec’08-Jan’10

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## Project : Chemical facility Project, Tehran, IRAN

## Role : Design Engineer - Piping Environment : PDMS 11.6, AUTO CAD-2009

## Roles & Responsibilities:

* Preparing piping layout along the pipe rack from Boiler to clean rooms and reactor blocks.
* Preparing plant layout for ammonia chiller plant and routing along the pipe rack up to production blocks.
* Actively participated in design review meeting with R&D team for development of new API production blocks.
* Routing, Selection and sizing of Chilled Water & Hot water for HVAC and Process applications and other utilities like Compressed air, Nitrogen, oxygen and Carbon dioxide systems.
* Routing, Selection and Sizing of Clean utility systems such as distillation (WFI) plant, pure steam generator, PW water system & other systems such as water treatment plant(DM plant), ETP as per ASME BPE regulations.
* Calculation of energy losses in pipes.
* Preparing Basis of Design (BOD) for Black&Clean utility Piping Systems.
* Preparing Technical Vendor Specifications for piping systems.

## Experience at AL-TAWLEED ENERGY AND POWER COMPANY Aug’07-Sep’08

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## Project : Shouiabah III, 3X300MW Steam power Plant, Jeddah, KSA

## Role : Piping Engineer Roles&Responsibilities:

* Preparation of equipment layouts, area wise key plans, and piping layouts.
* Checking and Modifying of GADs and Nozzle orientation drawings for storage vessels and closed cooling water system heat exchangers, DM water system and dosing systems as per site conditions.
* Preparing System Isometrics and identifying drop out items for Hydro testing.
* Interference checking and resolving clashes in PDMS 11.6.
* Rerouting and selection of BOP piping (like Boiler feed water system, DM plant piping, DeAerator piping and Compressed Air systems) to compensate the clashes occurred during erection.
* Responsible for applying and implementing **KKS** and ASME B 31.1 codes at construction level and checking P&IDs for proper piping routing.
* Modeling and modifying of pipe supports and pipe racks.
* Responsible for Preparing MTOS.
* Extracting BOM from Isometrics.
* Preparing Tender specifications for piping systems.
* Modifying of piping design documents as per client’s requirement.

## Previous Assignments

## SMS PHARMACEUTICALS and CHEMICALS from Jun’05-May’07

* **HETERO DRUGS LTD Aug’04-May’05**

## Roles & Responsibilities:

* Preparation of equipment layouts and piping layouts.
* Preparing piping P&IDs and PFDs.
* Routing, selection and sizing of piping systems for Steam , Cooling Towers, Chilled Water, Brain solutions and other utilities.
* Calculation and selection of utility pumps including Head and NPSH selection.
* Modeling pipe line supports and Pipe racks.
* Preparing Tender BOQ and Evaluation of piping Tenders.
* Preparing Technical Specifications for piping system.
* Coordinating with Various departments, Clients, contractors for smooth execution of projects
* Routing, selection and sizing of piping systems for Steam , Cooling Towers, Chilled Water, Brain solutions and other utilities.
* Responsible for all Welding (like SMAW, GTAW, and TIG) related activities including NDT tests and welder qualifications for sanitary piping.
* Responsible for all piping & support erection works, Pumps erection and alignment activities.
* Preparing cost estimation and BOQ for works done.
* Coordinating with Various departments, Clients, contractors for smooth execution of Projects.
* Responsible for all Welding (like SMAW, GTAW, and TIG) related activities including NDT tests and welder qualifications for sanitary piping.
* Responsible for all piping & support erection works, Pumps erection and alignment activities.