



## PRANABESH CHAKRABORTY

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### Key Skills

*EPC, Manufacturing & Consultancy*

*Piping Design Engineering*

*Conceptual, FEED & Detail Engineering*

*Pipe Stress Engineering & Optimization*

*Piping Layout & Optimization*

*Equipment Design & Optimization*

*Piping Sizing & Calculation*

*P&ID, PFD, Isometric Review*

*B.O.Q., Detailing, M.T.O.*

*Engineering & Project Management*

*Client & Vendor Management*

*Resource & Team Management*

### Soft Skills

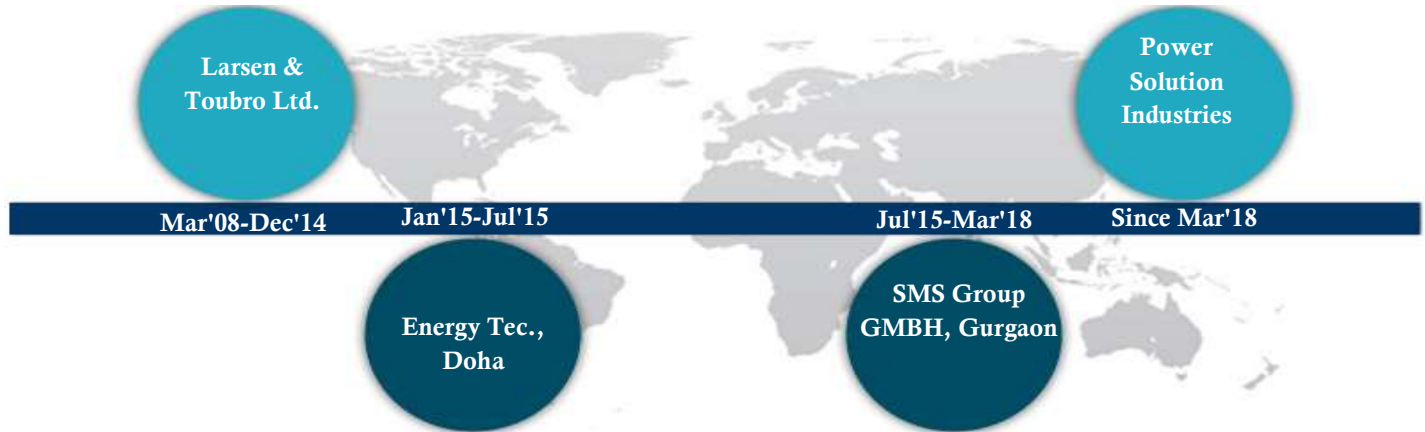


**Senior Professional:** leveraging nearly 17+ years of experience Displayed excellence in administering engineering of piping design & detail engineering in multiple Big Industrial & Infrastructure Projects (Technical Specification Review, Scope Matrix & Definition, Summarizing); Conceptual Design, FEED & Detail Design; MOC for high pressure process piping and finalization of MTOs / Specification; Mechanical equipment Design & Optimization (Pressure Vessels, Storage Tanks, Columns, Compressors, Pumps etc.); Engineering Calculations, Engineering Drawing (Layout & G.A. with BOQ) Preparation; TBE of all process equipment / line pipes/piping/valves etc.; Piping Stress Analysis, Equipment calculation, Support Span & flexibility calculation; Vendor drawing review for equipment and process packages, Product Management, Project Management & Documentation, Client & Vendor Management  
**Location Preference:** Anywhere in India, U.A.E. & Overseas.

### Profile Summary

- **Demonstrated excellence** in reviewing the client's technical requirements for piping design & engineering and establish the project design basis within parameter of project schedule for various cases, specification, standards and guidelines for engineering work execution.
- **Strategized cost effective** plant & system operation by implementing optimal sequences of operations in various parts of industrial plants.
- **Proficient in** Generating & check MTOs (Through SAP & Manual both), drawing and datasheet, review & submission to deliver quality services to client.
- **Driven, self-motivated, highly energized**, in preparation of data sheet (pumps, valves) as per project specification; preparation of TDC as per project material specification; preparation of piping material Indent (pipes, fittings, special fittings, valves, fasteners as per project piping material specification;
- **Steered efforts in leading** Checking of Isometric drawings as per P&ID, Mechanical equipment G.A drawings (vessel), valve G.A, Instruments G.A. Pump G.A, Basics of piping engineering guidance; Preparation of fabrication detail drawings of (spectacle blind, spacer, orifice plate, flanges, valves, fittings, supports etc.) as per ASME codes.
- **Sound knowledge in:**
  - Various Steel Plants, Oil & Gas Plants, Industrial Plants & Buildings.
  - Design & Estimation software like ERP, SAP, MS OFFICE, ADOBE ACROBAT, MS OUTLOOK, AUTO CAD, PDS, PDMS, ANSYS, SOLIDWORKS, CREO (internal training in Germany), CAESAR-II, PV-ELITE.
  - API, ANSI, ASME (B 31.3., 31.4, 31.8), ASTM, BS, DIN, ISO, IS, IBR Standards.
- **Expertise in Engineering Design & Load case** based on optimum load calculation, sketches, GA preparation & approval.
- **Construction practices** & economic principles, calculation methods, design details, international codes and standards, installation & commissioning procedures, and specifications.
- **Fabrication process** to ensure the quality of piping fabrications, welding, implementation of the required NDE, and hydrostatic testing in accordance with the codes and standards.

## Career Timeline



### Professional Experience

Since Sep., '20 with Technical Metal LLC as Engineering Manager

#### Key Result Areas:

- **Piping Engineering Operations:** Piping System Design & Engineering (Technical specification review, system Design & Optimization as per Standard, various equipments i.e. pumps, valves, pipes, fittings, static & rotating equipments etc. Design & Engineering, Selection & Sizing, BOQ preparation etc.); Vendor equipment data and specifications for piping systems (e.g. valves, fittings, strainers, pipes, flanges etc); Mechanical / Utility / Piping System Design ( various system design i.e. service water System, potable water system, waste water system, chilled water system, instrument air system, compressed air system, nitrogen distribution & purging system, oxygen system, fuel oil piping, LNG piping, crude oil tanker piping, high & low pressure steam distribution system, high & low pressure hydraulic & pneumatic system etc.); Piping stress analysis, flexibility calculation, optimum support span calculation etc.; piping calculations (shortest route for piping , sizing calculation, wall thickness calculation, loss calculation, pressure drop calculations, sizing, nozzle load calculation, optimum support span calculations, stress calculation, fluid balancing calculations etc.); Static Equipment Engineering, design & optimization of various mechanical equipments such as pressure vessels, tanks, columns (static equipments), pumps -centrifugal, reciprocating, axial flow, compressors etc. (rotary equipments); layout & detail drawing with BOQ preparation ;Equipment nozzle load calculation & nozzle orientation as per layout, wall thickness calculation ( Top, Bottom, Body etc.), Pressure drop calculation; fire-fighting system design & engineering & Optimization as per NFPA, various equipments i.e. pumps, valves, nozzles, sprinklers etc. design & engineering, selection & sizing, BOQ preparation etc.; plumbing system design & engineering (Storm water system, drainage water system, waste-water system design & optimization etc.); Proposal engineering, technical specification review; scope matrix & definition; summarizing; conceptual feed & detail design, project compliance report & statement; team leading, team management; man-power work distribution & reporting; product Management, project management & documentation, client & vendor management.
- **Estimation Operations:** Tendering work which includes but not limited to preparation & submission / uploading of deliverables in a timely manner, required compliance report preparation & submission, continuous communication with client / vendor / sub-contractor; True Value & updated cost estimation for structural / piping / mechanical / solar photo-voltaic projects; estimates and work plan in accordance with project scope, schedule and budget; estimation & costing with considering all hidden & direct cost which includes but not limited to man-hour , project cost e, in-house product cost, sub-contractor's cost etc.; costing & budget preparation with continuous communication with company management as well as suppliers & sub-contractors; vendor & sub-contractor techno-commercial proposals & bid evaluation in order to obtain the optimized cost from local as well as international market; vendor & sub-contractor price negotiations; quotation & proposal preparation & price negotiation with clients.
- **Project Operation:** Monitoring and executing projects with respect to budgeted cost, schedules, change of scope, demand forecasts & time over-runs to ensure timely execution of the projects; priority & resource co-ordination between multiple projects; preparation & update of project plans, schedules & status report; co-ordination of cross functional meetings with clients, consultants, sub-Consultants, suppliers, sub-suppliers, project team, engineering team etc.; reporting status, developing project-related documentation and implementing lessons learned; supporting the developing of coherent work plans and budgets for all activities in the project; assisting in the management of finance, human and information resources to maintain a good project management system; monitoring project compliance with project management standard policies & templates by project audits.

- **Reviewing:**
  - Plant 3d model for all design, accessibility, maintainability, and constructability with preparation of work packages for construction activities and method of statements.
  - Design calculations and drawings and implementing design criteria and specifications as per client requirements.
  - Engineering studies, design drawings and documents, and material equipment specifications.
  - Project scope of work and developing project deliverables with estimated timelines, inter-disciplinary coordination, resource management, material procurement, machinery and cost planning as per the scope of work with other departmental engineers as well as client.
- **Developing & Executing:**
  - Technical documents related to all system designs such as purchase requisition, design basis report equipment specifications and scope of work documents.
  - Pressure vessels calculations, storage tank calculation, pipe & wall thickness calculation, pressure drop calculation, pump head calculation, water balance calculation, heat balance calculation.
  - Zero/intermediate/bulk level MTO, isometrics, detailed drawings.
  - Piping layout with optimization following through international standard and approved P&ID and PFD.
  - Mechanical data sheets based on process data sheets and applicable P&ID, selection of materials.
  - Complete technical offer (against Data Sheet, Material Requisition of Pipes, Fittings, Valves, Ducts, Pumps, Blowers, bearing lubrications, insulations, Filters, Compressors, Cooling Towers, Heat Exchangers, Thickeners, Packages).
  - Progress meetings & coordination meetings along with client, main contractor, consultant, subcontractor and leading project team with group of engineers & designers.
  - Analysis and optimized design in compliance with the technical criteria for the project.

#### Previous Experience

Mar'18- Aug.,'20 with Power Solution Industries, Dubai as Design & Estimation Engineer

Jul'15-Mar'18 with SMS Group GMBH, Gurgaon as Senior Engineer- Piping & Utility

Jan'15-Jul'15 with Energy Tec., Doha, Qatar as Design-In-Charge

Mar'08-Dec'14 with Larsen & Toubro Ltd., Kolkata as Assistant Manager-Piping & Utility

Oct'06-Feb'08 with M/s Jessop & Co. Ltd., Kolkata as Production Executive

Dec'05-Sep'06 with M/s International Combustion India Ltd., Kolkata as Sales Engineer

#### Software Skills

- AUTO CAD , PDS, PDMS, ANSYS , SOLIDWORKS , CREO, CAESAR-II , PV-ELITE, STAAD-PRO, ERP, SAP, MS OFFICE, ADOBE ACROBAT, MS OUTLOOK,

#### Education

- **B.Tech. (Mechanical Engineering)** from West Bengal University of Technology in 2005.

#### Personal Details

**Date of Birth:** 27<sup>th</sup> March 1983.

**Languages Known:** English, Hindi and Bengali.

**Present Location:** Kolkata, West Bengal, India.

**Permanent Address:** Kolkata, West Bengal, India.

**Willingness to Relocate:** Yes

**Availability To Join:** Immediately Available

**Driving License:** Licensed to drive car in India & U.A.E.

**Passport Number:** L5227015.

**Passport Validity:** Up to 9<sup>th</sup> October, 2023.