

Ganesh Udamale

Static Mechanical Engineer

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SUMMARY

- 14+ years of experience in Mechanical Engineering related to Refinery, Oil and Gas, Pipelines, and Petrochemical industries
- Well conversant with mechanical design for process equipment such as **pressure vessels, columns, filter water separators, basket filters, heat exchangers, reactors and static mixers** aided with international software, latest codes, standards and recommended practices
- Gained experience in executing different design phases of static equipment (**FEED, Detail Engineering, & Pre-Bid**)
- Worked for various Clients across the globe in **Oil and Gas, Refinery and Petrochemical industries** such as **PERTAMINA, CNRL, SHELL CANADA PRODUCTS, SYNCRUDE CANADA LTD., SHURTAN GAS CHEMICAL COMPLEX, NOVA CHEMICALS, LUKOIL, WAFRA, BASF, PETROQUIMICA SUAPE, IOCL, HPCL, GUJARAT FLUROCHEMICAL** etc.

Technical skills:

- Development and review of Mechanical Design of process equipment
- Development and review of specifications, equipment datasheets and material requisitions of process equipment
- Review of bidder's offer, raise technical queries and development of technical bid evaluation of process equipment
- Review of vendor detail drawings and documentation of process equipment
- Co-ordination with clients, contractors, vendors and other engineering disciplines

Responsibilities:

- Development Accountable for the engineering scope adherence in accordance with project specifications & standards.
- Design and specifications of mechanical static equipment like pressure vessels, heat exchangers, Reactors, Columns etc.
- Review of vendor offers, technical bid tabulations, vendor drawing reviews as per project specification and mechanical data sheet.
- Implementation of quality procedures and contribute to continuous implementation of improvement activities.

Codes and Standards:

ASME, TEMA, NACE, PD 5500, API 660 & WRC 107/537/297 and Indian codes

Computer Skills:

- PV Elite, CodeCalc, HTRI (only basic), Microprotol, AutoCAD

Workshare Highlights:

- **WP Canada (Sarnia, Edmonton, Calgary, Toronto)** – C2FS Nova Chemicals, Shell Scotford, Syncrude, CNRL,

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Imperial Oil

- **WP Abu Dhabi** – Yamama FEED, ASORC PMC Project
- **WP London** – Shurtan Gas FEED Project
- **WP Manchester** – CGUP Gas Processing FEED Project
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EXPERIENCE HIGHLIGHTS

2022 - Present **Chief Engineer - Mechanical (Static Equipment, IBI Chematur Engineering and Consultancy Ltd) - March 2022**

2022 – 2022 **Working as Mechanical Static Engineer, BEC Syakha Project, Gujarat**

- Prepared the Mechanical datasheet and design of Reactors, columns, pressure vessels, heat exchanger.
- Prepared the Material requisition of Reactors, columns, pressure vessels, heat exchanger.
- Review the Vendor mechanical data sheet and design calculation of Reactors, columns, pressure vessels, heat exchanger.
- Involved in recruitment and man power planning, training and development for static department.
- Active participants in Proposal, manpower estimation and aggressive bidding.

2014 - 2022 **Senior Mechanical Engineer – Static Equipment, Worley India Pvt. Ltd.**

2020 – 2021 **Working as Mechanical Static Engineer, Genesis Project, Mumbai Project – MCC Methacrylate Americas Inc. (Geismar, Louisiana – Southern United States)**

- Prepared the Mechanical datasheet of columns, pressure vessels, heat exchanger in EBD (Engineering Database) software.
- Prepared the Material requisition of columns, pressure vessels, heat exchanger in ERM (Enterprise Resource Management) software.

2020 – 2021 **Working as Mechanical Static Engineer, Tata Project, Mumbai Project – HPCL RAJASTHAN REFINERY LIMITED (HRRL Project)**

- Prepared the Material requisition, Technical Queries (TQ), Technical Bid Evaluation (TBE) for static equipment
- Design the columns, pressure vessels, heat exchanger etc in PV Elite software and check the thickness as per Client Engineering Table also provide the weights.

Working as Mechanical Static Engineer, Canada Project – SHELL CANADA PRODUCTSSHELL CHEMICALS CANADA LTD

- Prepared the Material requisition, Technical Queries (TQ), Technical Bid Evaluation (TBE) for static equipment
- Discussions and Resolutions of Technical Queries / Deviations raised by EPC Contractor.

2018 – 2020 **Worked as Lead Mechanical Engineer, America, Houston Project – ESPN - INEOS (Enhanced Specialties Production of North America) Project**

- Prepared the Material requisition, Mechanical data sheet (MDS), Technical Queries (TQ), Technical Bid Evaluation (TBE) for static equipment of heat exchangers, pressure vessel, columns, filters, Static Mixers, Eductor and underground storage tank
- Discussions and Resolutions of Technical Queries / Deviations raised by EPC Contractor.
- Review the General arrangement and all detail drawings.

2018 – 2018 **Worked as Mechanical Engineer, Canada Project – CNRL (Canadian Natural Resources Limited Project)**

- Prepared the Material requisition, Technical Queries (TQ), Technical Bid Evaluation (TBE) for static equipment of heat exchangers, pressure vessel and columns

Worked as Mechanical Engineer, Mumbai Project – ARBF Project (Deputation to - Basell Polyolefins India Pvt Ltd)

- Review of existing documents from documentum & understand and record the equipment history.
- Identify the most appropriate document to be considered for the MAT curve spreadsheet.

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- Develop MAT (Minimum Allowable Temperature) curves for Brittle failure analysis of existing equipment as per API 579
- All inputs in MAT curve spreadsheet to be recorded in an auditable format using duly filled checklist
- Duly filled MAT curve spreadsheet. Addition of appropriate notes as applicable in MAT curve spreadsheet
- Duly filled checklist
- Inputs considered while preparing the MAT curves should be highlighted in existing equipment documents

Worked as Mechanical Engineer, Mumbai Project – HVPAX Pilot Project

- Developed and checked, mechanical datasheets of Air cooler heat exchangers

2017 – 2017

Worked as Mechanical Engineer Project – Grace FCC Catalysts Middle East LLC

- Prepared the Material requisition and Mechanical data sheet (MDS) Pressure vessel, Silos, Air receiver, Air Accumulator, FRP tank, Silo, Plate & frame Heat Exchanger of heat exchangers

Worked as Mechanical Engineer Uzbekistan Project – Shurtan Gas Chemical Complex Upgrade Project (SGCCUP)

- Preparation of Mechanical datasheet and Design calculation for pressure vessels, filters and dryer

2016 – 2017

Project Expeditor, Mumbai Project – MAFFL Integrated Aviation Fuel Farm and Hydrant Facility at CSIA

- Interacting with project teams (Client, Inter-discipline members and Vendors)
- Organize Kick-off meeting for various packages in project
- Following up for approved documents/deliverables and expediting with vendors and discipline members for timely delivery of packages and equipment at site

2014 – 2016

Worked as Mechanical Engineer Corunna, Ontario, Canada Project – NOVA Chemicals (Canada) Ltd. - Corunna, Ontario, Canada

- Preparation of Mechanical datasheet and Material Requisition for vessel, dryer and heat exchanger Organize Kick-off meeting for various packages in project
- Preparation of technical bid evaluation (TBE) and Technical query (TQ) for pressure vessels, dryer and heat exchanger
- Preparation of dirty weight calculations for equipment to be removed
- Preparation of Bluebeam closeout reports for COP2E package

Worked as Mechanical Engineer Project – Trans Anatolia Natural Gas pipeline Project (TANAP)

- Preparation of technical bid evaluation (TBE) and Technical query (TQ) for pressure vessels, dryer and heat exchanger

Worked as Mechanical Engineer Project – RABAB HARWEEL Integrated Project (RHIP) – Petroleum Development OMAN

- Preparation of Material requisition, technical bid evaluation (TBE) and Technical query (TQ) for pressure vessels

Mechanical Engineer, LukOil Mid-East Limited, West Qurna-2, Iraq Project – Yamama Formation Development Project (FEED)

- Developed mechanical design calculation of pressure vessels, heat exchangers and columns
- Developed mechanical datasheets of pressure vessels, filters, heat exchangers, columns and reactors

Mechanical Engineer, Project – Central Gas Utilisation project – Gas processing feed

- Prepared the Material requisition, Technical Queries (TQ), Technical Bid Evaluation (TBE) for static equipment
- Design the columns, pressure vessels, heat exchanger etc in PV Elite software.

MECHANICAL STATIC EQUIPMENT ENGINEER

- 2013 – 2014** **Mechanical Design Engineer – Static Equipment, Technip India Limited., Mumbai, India**
- Project – USGC Petrochemical CP Chem**
- Preparation of Material requisition, technical bid evaluation (TBE) and Technical query (TQ) for pressure vessels and heat exchangers
 - Discussions and Resolutions of Technical Queries / Deviations raised by EPC Contractor.
 - Review the General arrangement and all detail drawings.
- 2011 – 2013** **Mechanical Design Engineer – Static Equipment, TEMA India Limited., Mumbai, India**
- Project – National Fertilizers limited (NFL), Consultant: - Tecnimont ICB**
Project – Lanco Solar Pvt.limited, Consultant: - Fluor Supply
Project – Braskem, Consultant: - Technip
Project – AL jubail Petrochemical company, Consultant: - Technicas
- Design the column, pressure vessels, heat exchanger in PV Elite software and provide the dimensions and thickness to drawing dept
 - Discussions and Resolutions of Technical Queries with client.
 - Review the General arrangement and all detail drawings.
 - Co-ordinate with Material dept, shop related quarries, project dept., estimation dept and drawing dept
- 2007 – 2010** **Mechanical Design Engineer – Static Equipment, India Tube Mills & Metal Industries Ltd., Mumbai, India**
- Project – CPCL, Consultant: - M/s. EIL**
Project – IOCL (PDRP), Consultant: - M/s. Foster Wheeler energy limited
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Project – Indian Oil Corporation Ltd. Consultant: - M/s. Foster Wheeler Energy Ltd
- Design the column, pressure vessels, heat exchanger in PV Elite software and provide the dimensions and thickness to drawing dept
 - Discussions and Resolutions of Technical Queries with client.
 - Review the General arrangement and all detail drawings.
 - Co-ordinate with Material dept, shop related quarries, project dept., estimation dept and drawing dept
- 2007 – 2008** **Trainee Engineer (upto 2008) / Design Engineer, – CPCL, Consultant: - M/s. EIL**
- Design the column, pressure vessels, heat exchanger in PV Elite software and provide the dimensions and thickness to drawing dept
 - Review the General arrangement and all detail drawings.
 - First 6 months, I have worked in fabrication shop as Production Engineer

EDUCATION

2003 - 2007 **BE Mechanical Engineering, SVPM College from Pune University**

SPECIFIC TECHNICAL EXPERTISE / SPECIALIST COURSES

2009 **Piping Engineering course from Elixer Institute from, Thane – Mumbai**
2005 **Auto Cad course from Vikhroli- Mumbai**

PERSONAL DETAILS

Date of Birth - 16th June 1984

Nationality – Indian

Languages - Marathi, Hindi & English