Abhilasha Shrivastava

Detail Design Engineer

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Detail Design Engineer with 4 years of experience. looking for the opportunity to continuously develop technical skillsand expertise, while driving substantial benefits for the company through the efficient design and optimization of processes, resulting in improved productivity, cost reduction, and operational excellence.

SKILLS

Process Management | Oracle -ERP | Power BI | 2D AutoCAD | MS Office | Heat & Mass tranfer Balance calculation | Thickness calculation | IBR and ASME Calculation for vessel, PRS and PRDSH | PDM | Bill of material | Organizational Ability | Flexible & Detail Oriented | Team player | Excellent Verbal & Written Communication | Leadership | Problem Solving | Knowledge of DCS and SCADA

EMPLOYMENT HISTORY

Detail Design Engineer ► Thermax Global Limited, Pune Maharashtra — Jul 2019 - Present

Profile Summary:

- Handling the project and product type orders.
- Skilled in providing solution for client's customized products.
- Supporting an external and internal team for Solutions and guidance.
- Conducting technical discussions with end customer for detailed study of drawings and the real requirement of customers.
- Completion of a specific project or order within time limit with right on first time.
- Strong at maintaining records and documentation.
- Ability to network with various contact points.

Role and responsibilities:

- Heat and mass transfer Calculation for Accumulator, Heat exchanger and Pressure reducing DE superheating station(PRDSH).
- Pipeline Sizing Calculation and developing Bill of Material (BOM)
- IBR and ASME Calculation for different components PRS, PRDSH, Condensate recovery System, Moisture Separator as well as Pressurized vessel system etc.
- Using API code for different product design parameter selections.
- Thickness calculation for vessel, plates and pipe etc.
- Control valve Sizing, Positioner selection and air consumption calculation.
- Pressure Safety valve selection, Sizing and datasheet preparation.
- Hazardous Area Classification (HAC)
- Expertise in Steam and Condensate recovery automation system.
- Datasheet preparation for all components like a control valve, safety valve, pump, Pressure reducing system(PRS), Instaheat and Instruments.
- Preparing deviation sheet and CRS (comment resolution sheet) against Customer documents and comments.
- Selection of Sheet Metal, design of Heat Exchangers system, Piping material selection, Flange Selection, heavy fabrication etc.
- Preparing and Assisting draftsperson for GA, P&ID and Manufacturing drawings by using drafting tools (computer-assisted design(CAD) 2D,draftsight 2D and solid works 3D).
- Preparing Control philosophy and I/O list for the system.
- Knowledge of PID base Control Panel, PLC Panel, junction Box and instrument.
- Vendor evaluation with the preparation of technical datasheet.
- Site visits and service support for customer problem resolution.
- Arranging kick-off meeting for discussion on drawings & documents required for approval & keeping track of it.
- Providing Site drawing for customer approval and taking follow-up for approval.
- Technical discussion with the supplier for required specifications and Issuing manufacturing clearance to vendors against drawing and datasheet approval.
- Acceptance & approval for the technical queries raised by CFT.
- Ensuring the complete supply by defining the scope of supply, spares list and site support.
- Conduct meetings for tracking the status of Product and Project type orders, Manufacturing IBR documents and

supplier documents.

Projects Execution

Academic Projects

Vocational training :

CSPGCL Korba – "DSPM Power Plant"
Jayaswal Neco-"Project on DRI Plant"

Project :

Analysis and Comparison of "Shell `and Tube Type Heat Exchangers (Copper and aluminum) model by using ANSYS and physical prototype model "

Professional Projects

- Accumulator System.
- High-pressure and temperature alloy Steel PRDSH.
- Pressurized vessel for Hot water system.
- Nitrogen-jacketed Pressurized vessel.
- High temp (up to 160 deg C)Pump selection and Calculation.
- Cost reduction of Flash vessel by changing material without affecting performance.
- Site drawing configurator.
- Pump Skid selection configurator.
- Rice max Std.

Reword & Recognition

Recognized under - FOAK(First of a Kind)

Designed and implemented a completely new system of pressurized vessels, which has earned notable recognition from my organization.
Also Calculating and reducing proposed pressurized vessel size for a novel closed-loop system and achieving substantial cost savings marks a significant milestone in the industry.

EDUCATION

Exam/Degree	Year	Name of institute	University/Board	Percentage
Bachelor of Engineering	2019	Rungta Engineering College	CSVTU	71.2
H.S.C-12th	2015	P.G. Umathe Higher Secondary School	State Board	74.2
S.S.C-10th	2013	P.G. Umathe Higher Secondary School	State Board	76.6

LANGUAGES

English | Hindi

Declaration

I hereby confirm that the above-furnished information is the best of my knowledge and beliefs.

Abhilasha Shrivastava