

ENG. SHASHANK TRIPATHI (Process Engineer)

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Skills

- HYSYS / PROMAX / HTFS / HTRI
- CHEMCAD for Chemical Plants
- Process Design / development
- Thermal Design of Heat exchanger.
- FEED Preparation
- Basic Engineering
- Detail Engineering Support
- HAZOP Study and Report
- Technical Bid analysis
- Hydraulic / Utility Study
- Flare / Depressurization study
- Operation & maintenance Manual
- Process Verification
- Flaring Study
- Depressurization Analysis
- Cause & effect chart
- Process engineering deliverables
- P&I Diagrams
- PFD, H&M, Line / Equipment list
- Hydraulic/Line size calculations
- Pump NPSH calculations
- Standards- PETRONAS / TOTAL / SHELL / API / ADGAS / ADCO

Executed Responsibility Scope

- **Completed Project – 17 Nos.**
- Technical Bid analysis
- PFD & H&M, P&ID
- Instrument Process Data sheets
- Depressurization Study
- PSV Sizing and selection
- Flare Analysis
- Sizing & selection of Equipment's
- Heat exchanger design
- Issuance of RFQ's
- Verification of offers
- Engineering deliverables
- O&M Manual
- Cause and effect chart
- Control Philosophy

Experience Overview

- 9 Years extensive experience in refinery projects, Onshore and Offshore Gas Field Projects
 - Refinery and Petrochemical Plant process Simulation & Design
 - Process Models and facility unit operations
 - Development for Process Hazard Analysis events
 - Prepare process specifications, drawings (PFD, P&ID's, H&M etc.) and process deliverables
 - Process Development & Projects
 - Optimization of profitability of operations
 - Technical assistance of Process & improvement of equipment efficiency
 - Conceptual Process study and report / Process Optimization
 - Process calculation related to System sizing in detail.
 - Relief system Design includes hydraulics and sizing.
 - Shell & Tube type Heat exchanger Design
 - Lead the Process to identify the opportunity to improve the system design and performance.
 - Ensuring planned process progress with respect to the engineering deliverables for tenders and awarded projects.
 - Sizing calculations for Process equipment's (Pumps, Heat Exchangers, distillation columns, compressors, separators, reactors etc.) and provide information in the form of equipment data sheet
 - Perform line size calculations
 - Perform hydraulic calculations
 - Perform necessary pump NPSH calculations
 - Preparing engineering deliverables for Client and Vendors
 - Issuance of RFQ's and verification of vendor submittals.
 - Coordination with other Teams
 - Process Design basis
 - Process flow diagrams
 - Heat and mass heat balance
 - P&I diagrams
 - Material selection diagrams
 - Line list
 - Equipment list
 - Process data sheets for equipment's
 - Instrument data sheet
 - Control philosophy
 - Troubleshooting
- As a Proposal Engineer, I have independently performed the following function:
- Preparation of Technical offer
 - Preparation of Cost estimation sheet
 - Preparation of Bill of Material
 - Developed value added propositions and proposal writing
 - Follow up with Client / vendor
 - Issuance of RFQ's during bidding stage
 - Coordination with team in collection of data & deliverables
 - Strong control on documentation & communication
 - Prepare spreadsheet calculations (Pricing & man-hours)
 - Providing support to team members

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Work Experience:

- *Bellelli Engineering S.P.A, Italy*
(October 2014 - Present)
Sr. Process Engineer
- *Koln Process system Ltd.,
S. Korea* (April 2014 –Sept 2014)
Process Engineer
- *Technical Parts Est., Dubai*
(August 2013 -March 2014)
Process Project Engineer
- *Oswal Infrastructure Ltd., India*
(Jan 2012 – July 2013) –
Assist. Mgr.–Process Design
- *Multitex Filtration Engineer Ltd.,
India* (June 2009 – Dec 2011)
Process Engineer

Education

- *B.Tech in Chemical*
(2005-2009)
*Jaypee University of Information
Technology (J.U.I.T.) - 74%.*
- *CLASS XII (2003)*
*Lucknow Public College, Lucknow,
U.P – 71%.*
- *CLASS X (2001) - D.A.V Public
School, Faizabad – 70.6%.*
- *Pursuing MATLAB Course*

Projects:

- On-Shore – Fuel Gas Conditioning Skid, IOOC (End User) – RASMARA (EPC), Iran – Process simulation and engineering deliverables as per Client Specification like P&ID, PFD & H&M, Process and Instrument Datasheets, Control philosophy etc., Flare study and Depressurization study along with Hydraulic study.
- Fuel Gas Conditioning Skid Package – GSPC, Ahmedabad. – Process simulation and engineering deliverables as per Client Specification like P&ID, PFD, Process and Instrument Datasheets, Control philosophy etc.
- Off-Shore - Gas Dehydration using TEG and TEG Regeneration system for LAYANG FPSO PROJECT, Nippon Oil & Gas, Japan (End User) – THHE (EPC), Malaysia. Process Simulation, PFD & H&M, P&ID, Equipment and Instrument Datasheets, Line list, equipment list, Relief valve sizing & selection, Material diagram, Control philosophy, O&M etc.
- On-Shore – Project: UCH-II, Gas Dehydration Using Molecular Sieves, OGDCL, Pakistan. Process Simulation, PFD & H&M, P&ID, Equipment and Instrument Datasheets, Line list, equipment list, Relief valve sizing & selection, Material diagram, Control philosophy, O&M etc.
- Gas Sweetening Project Using MDEA Hybrid Solvent, OGDCL, Pakistan. Process Simulation, PFD & H&M, P&ID, Equipment and Instrument Datasheets, Line list, equipment list, Relief valve sizing & selection, Material diagram, Control philosophy, O&M etc.
- Finger Type Slug Catcher, Peru, USA.
- On-Shore – Fuel Gas Conditioning Skid, Jijel & Biskra Power Plant, Algeria (SPE SPA -End User) –Hyundai (EPC). Process Simulation, PFD & H&M, P&ID, Equipment and Instrument Datasheets, Line list, equipment list, Relief valve sizing & selection, Material diagram, Control philosophy, O&M etc.
- Offshore – Gas Dehydration Using TEG, Moho Nord, Congo. Process Simulation, PFD & H&M, P&ID, Equipment and Instrument Datasheets, Line list, equipment list, Relief valve sizing & selection, Material diagram, Control philosophy, O&M etc.
- Development and Design of Indirect Water Bath heater with Smokes Tubes in order to make more Efficient and economic Indirect Water Bath Heater.
- Project of Shell & Tube Heat Exchanger – 120 Nos.; Heat Exchanger, Selection, Thermal design, Vibration analysis etc., Refinery operations – KNPC. Thermal Design software used HTRI.
- EPF package design for ONGC and Cairn India Ltd. – Characterization of Fluid in HYSYS and design and development of EPF facility Design, datasheets, P&ID, Controls, IPDS etc.
- Refrigeration Plant – Ethylene Boil off package & Ethane Boil off package – Iran: Engineering Design and deliverable with PFD & H&M along with sizing calculation for associated equipment's and valves. Process Simulation in HYSYS.
- Revamping Study of a Gas Compressor Station along with all the associated equipment's like Slug catcher/scrubber etc. – Iraq – Simulation for Compressor and Surge analysis in HYSYS and Preparation of Datasheet and verification of all the installed equipment sizing and operation philosophy.
- C3/C4 total Hydrogenation Unit, KPE, Iran– Gas Complex- Engineering Design and deliverable with PFD & H&M, Process Data sheets along with sizing calculation for associated equipment's and valves, IPDS, Design Basis and Process description for the plant etc. Process Simulation in HYSYS.
- LNG Regasification Unit – FPSO System, Congo – Engineering Design and deliverable with PFD & H&M, Process Data sheets along with sizing calculation for associated equipment's and valves etc. Process Simulation in HYSYS.
- Refinery Simulation for the Topping Plant, Iran – Characterization of Fluid and Complete Process simulation for the Topping Plant –Engineering deliverables are PFD, PID with H&M, Process Data sheets and Design Basis and control philosophy for the plant. Process Simulation in HYSYS.
- Desulfurization Unit – Claus Process, ILAM SRU, Iran – Engineering deliverables are P&ID, PFD & H&M, Process Data sheets with complete sizing and selection and Hydraulic study and utility study, Control philosophy etc. Process Simulation in PROMAX.