PERMANENT ADDRESS

S/O Tikam Singh H.No:-1, Vill-Kakrala, Post-Chandpur District-Bijnor, UP, **India** Pin Code-246725

VIVEK KUMAR RAJPUT (SR. PROCESS ENGINEER)

Experince-7 Years

© (+91)-8800144633 vivekrajput16@gmail.com



KEY SKILLS & KNOWLEDGE AREAS

- Working Knowledge of **Offshore** and **Onshore** Oil & Gas Processing Facilities.
- Design Process Packages by Simulation Software as ASPEN HYSYS V8.8.
- PFD (Process Flow Diagram) and P&ID (Piping and Instrumentation Diagram) Development.
- Line Size Calculation for Gas, Liquid and Two-Phase Lines According with API 14E Standard.
- Pressure Drop Calculations According with API 14E Standard.
- Relief Valve Sizing According with API 520, 521 Standards.
- Equipment Sizing of 2 Phase Separator, 3 Phase Separator, Flare KO Drum, Fuel Gas Scrubber, Filter Separator etc.
- Design of Fuel Gas Skid Design, Glycol Dehydration Skid (TEG), Amine Unit Skid, Chemical Injection Skid, Nitrogen Generation Skid and Compressed Air Skid.
- Separators Sizing According with API 12J, Shell DEP 31.22.05.11-12 and Shell DEP 31.21.01.12.
- Fire Water Network Design for Offshore and Onshore According NFPA 11, 13,15,20,22.
- Preparation of Technical Proposal for Pre Bid Engineering, Bid Engineering and Post Bid Engineering.
- Preparation & Issue of RFQ's, Evaluation of Vendor's Quotations, Clarifications, Technical Bid Analysis etc.
- Review of Vendor's Documents, Drawings, Datasheets, Specifications and Calculations.
- Ability to Lead a Team of Engineers and Interact with Clients and Vendors.

EXPERIENCE

7 Years of Work Experience as a Process Engineer in Front End Engineering Design (FEED), Process Engineering, Detail Engineering Services for Oil & Gas (Offshore and Onshore) and EPC Organization as ONGC, IOCL, CEIL (India), HPCL (India), Petronas (Myanmar), PDO (Oman), ADCO, (Abu Dhabi), NIOC (Iran), KOC (Kuwait), Shell (USA), Chevron (USA), Technip, WorlyParsons, Mott MacDonald etc.

WORKING EXPERIENCE & PROJECTS

Oswal Engineering (Infra) Limited., Ahmedabad ECIS Group, Italy (Fully Subsidiary of Oswal)

Assistant Manager (April 2016 - Till Date) Current

Project-1: Supply of Water Metering Injection Skid for ADCO, Abu Dhabi

Role

- Preparation of Process Flow Diagrams (PFD) and Piping & Instrumentation Diagram (P&ID).
- Line Sizing Calculation for Liquid Lines.
- Pressure Drop Calculation for Skid.
- Preparation Data Sheet for Valves.
- Prepare of Line Sizing Report.
- Prepare of Line List.

Project-2: Early Production Facility System for ONGC, Kakinada, India

Role

- Preparation of Process Flow Diagrams (PFD) and Piping & Instrumentation Diagram (P&ID).
- Two Phase Separator Design.
- Coalescer Filter Design.
- Line Sizing Calculation for Two Phase line, Gas and Liquid Lines.
- Preparation Data Sheet for 2 Phase Separator and Coalescer Filter.
- Prepare of Line Sizing Report.
- PSV Design for Fire Case.
- Prepare of Line List.

Project-3: Supply of Corrosion Inhibitor Injection Skid for HPCL, India

Role

- Preparation of Process Flow Diagrams (PFD) and Piping & Instrumentation Diagram (P&ID).
- Line Sizing Calculation for Gas and Liquid Lines.
- Preparation Data Sheet for Pump, Storage Tank, PVRV.
- Calculation for Nitrogen Tank Blanketing According API 2000.
- N2 Calculation for Inbreathing and Outbreathing.
- Calculation for Chemical Barrel Pump.
- PSV Design for Fire Case.
- Preparation of Line List & Valve List.

Project-4: Miscellaneous Work

Role

- Preparation of Technical Proposal for ONGC (India), CIEL (India), IOCL (India), HPCL (India) to Pre-Bid Engineering, Bid Engineering and Post Bid Engineering as Following:-
 - Fuel Gas Conditioning Skid
 - Glycol Dehydration Skid (TEG)
 - Gas Compressor Skid
 - Gas Metering Skid
 - Amine Unit Skid
 - o Nitrogen Generation Skid
 - 2 & 3 Phase Separator with Internals
- Evaluate Technical Specifications of RFQ's and Complying Technical Queries.

Bellelli Engineering S.p.A, Abu Dhabi (UAE)

Process Engineer (May 2015 - March 2016) 1 Year

Project-1: Glycol Dehydration Package (TEG) of Layang FPSO Facilities for JX Nippon Oil & Gas Exploration

Ltd., Japan

Role

- Preparation of Process Flow Diagrams (PFD) and Piping & Instrumentation Diagram (P&ID).
- Line Sizing Calculation for Gas and Liquid Lines.
- Preparation of Process Data Sheets for Equipment and Instruments.
- Preparation of Process Data Sheets for Pump.
- PSV Design for Equipment.
- Preparation of Line List.
- Preparation of Valve List.

Project-2: Supply of Fuel Gas Package for National Iran Oil Company., Iran

Role

- Preparation of Process Flow Diagrams (PFD) and Piping & Instrumentation Diagram (P&ID).
- Line sizing Calculation for Gas and Liquid Lines.
- Preparation Data Sheet for Scrubber and Filter.
- Calculation for Depressurization for BDV by Hysys V8.8.
- N2 Purging Calculation for Fuel Gas System.
- PSV Design for Fire Case.
- Preparation of Line List.
- Preparation of Valve list.

Project-3: Miscellaneous Work

Role

- Preparation of Technical Proposal for PDO (Oman), ADCO (Abu Dhabi), NIOC (Iran) to Pre-Bid Engineering, Bid Engineering and Post Bid Engineering as Following:-
 - Fuel Gas Conditioning Skid
 - Glycol Dehydration Skid (TEG)
 - Gas Metering Skid6
 - Chemical Injection Skid
 - Methanol Injection Skid
 - Corrosion Inhibitor Injunction Skid
 - o 2 & 3 Phase Separator with Internals
- Evaluate Technical Specifications of RFQ's and Complying Technical Queries.

Petro6 Engineering & Constructions Pvt Ltd., Chennai, TN

Process Engineer (September 2014 - April 2015) 8 Month

Project-1: Yetgun A,B,C offshore Platform Process Modification for Petronas Carigali (Hongkong) Myanmar

Ltd., Myanmar

Role

- Check the Adequacy for Gas Line and Liquid line for New Flow Rate.
- Line Sizing Calculation for Gas and Liquid Lines.
- Checking the Vendor Documents for Equipment's as well as Datasheets.
- Preparation of Process Data Sheets for Equipment.
- Preparation of Instrument Process Data Sheets.
- Relief Valve Sizing and Pump Sizing.
- Preparation of Line List and Valve List.
- Preparation of Bill of Material.

Project-2: Satellite Field Development Project for Cairn Energy India Ltd., Rajasthan

Role

- Preparation of Process Flow Diagrams (PFD) and Piping & Instrumentation Diagram (P&ID).
- Carrying Out Design Calculations, Pump Hydraulics Calculations.
- Line Sizing Calculation for Gas, Liquid and Two-Phase Lines.
- Relief Valve Sizing and Pump Sizing.
- 3 Phase Separator, Fuel Gas Scrubber and Flare KO Drum Design.
- Preparation of Process Data Sheets for Equipment and Instruments.
- Preparation of Line List.

Project-3: Study of Deluge System and Hydrant System Petronas Carigali (Hongkong) Myanmar Ltd., Myanmar

Role

- Update of P&ID and PFD.
- Design of Fire water network, Layout, Data Sheet etc.
- Calculate Fire Water Demand.
- Preparation Drawing for New Nozzle Spray System According to Equipment Protection.
- Spray Nozzle Calculation for Delude System.
- Preparation of Hazardous Area Classification.
- Analysis of Fire Water Network in Layout.
- Hydraulic Calculation by Excel Sheet.
- Line Sizing calculation by Excel Sheet.
- Working Knowledge of Various International Codes and Standards Including NFPA 11,13,15,22.

Asmetech Engineers Pvt. Ltd., Noida, UP

Process Engineer (September 2013 - August 2014) 1 Year

Project-1: C-26 Cluster & B-173A-B Well Platform Project of ONGC, Mumbai

Role

- Performing Pump and Line Hydraulic Calculations.
- Performing Pressure Vessel Calculations.
- Calculation of Relief Load for Equipment.
- Preparation of Material and Purchase Requisition Sheets for Equipment.
- Update PFD's, UFD's and P&ID's.
- Preparation of Process Data Sheets for and Instruments.
- Preparation of Line Lists List and Valve List.

Project-2: Compressed Air System Design for Hindustan Zink Ltd., Udaipur, Rajasthan

Role

- Preparation of Process Flow Diagrams (PFD) and Piping & Instrumentation Diagram (P&ID).
- Sizing for Air Receiver Vessel.
- Preparation of Process Data Sheets for Filter.
- Finalization Compressor from Vendor.
- Preparation of BOQ and BOM.
- Preparation of Line List.

Greenleaf Engineering Limited, Noida, UP.

Process Engineer (Aug 2010 - Aug 2013) 3 Years

Project-1: Relief Valve Sizing with Farris Engineering Services-a Division of Curttis Wright Flow Control (USA)

Relief Valve Sizing and Relief Load Determination for Shell Canada Sites, Caltex Australia Sites and Chevron USA Sites.

Role

 Checking the Adequacy of the Protected System Relief Requirement for Thermal Expansion, Control Valve Failure, Blocked Exit, Cooling Water, Power Failure, Fire etc. with the Given Relief Area Using iPRSM.

- Carrying Out Design Calculations, Pump hydraulics Calculations and Line Sizing.
- Performing PSV Inlet and Outlet line Hydraulic Calculations.
- Updating Isometric Drawings and System Sketches.
- Preparation of Process Data Sheets for Equipment (EPDS).
- Preparation of Instrument Process Data Sheets (IPDS).
- Preparation of System Sketch for P&ID.

Project-2: Oil Field Development Project-Phase 2 for Kuwait Oil Company, Kuwait

Role

- Preparation of Process Flow Diagrams (PFD) and Piping & Instrumentation Diagram (P&ID).
- Carrying out Design Calculations, Pump hydraulics calculations and Line sizing.
- Preparation of Process Data Sheets of Pumps.
- Calculation of Relief Load for Equipment.
- Preparation of Line List.

Project-3: Fire Network Design for Kuwait Oil Company, Kuwait

Role

- Preparation of Process Flow Diagrams (PFD) and Piping & Instrumentation Diagram (P&ID).
- Design of Fire Water Network, Layout, Data Sheet etc.
- Calculate Fire Water Demand.
- Preparation of Hazardous Area Classification.
- Analysis of Fire Water Network in Pipenet.
- Hydraulic Calculation by Pipenet.
- Line Sizing Calculation.
- Working Knowledge of Various International Codes and Standards Including NFPA 11,13,15,22

SOFTWARE EXPERTISE

- > HYSYS V8.8 (Process Simulation)
- Pipenet 1.5, FluidFlow3 (Pipe Hydraulics)
- > HTRI V6 (Heat Exchanger Thermal Design)
- > Auto Cad (2D Drafting)

EDUCATION

Bachelor of Technology in Chemical Engineering from Moradabad Institute of Engineering and Technology **UPTU Lucknow** During 2006-10.

TRAINING

- > 4 Weeks Training as an Environment Auditor in SSPM Paper Mill (Kashipur) in 2007.
- > 6 Weeks Training in Urea Plant from Tata Chemical Limited, Babrala, Badaun, UP in 2009.
- Complete Project During Final Year "Production of Synthesis Gas from Natural Gas" in 2010.

PERSONAL INFORMATION

• Date of Birth : 16th Feb 1986

Nationality
Gender
Marital Status
Indian
Male
Married

Languages : English & HindiPassport No. : M3528949

• Abroad Experience : UAE Work Permit (Permanent) 1 Year

• Current Working Place : Ahmedabad, India

• Notice Period : 1 Month