

SAUD HASHMI

Email: Saudhashmi_chem@yahoo.com

Summary of Overall experience

Result-oriented Chemical Engineer having more than 5+ year's experience in Petrochemical Sector as a Process Engineer

(2+ years experience as a process engineer in technical services department & 1 years experience as an operation engineer in operation department at Petrochemical Plant and 2.5 years of teaching experience in chemical engineering department at NEDUET).

TECHNICAL SKILLS

- Hydraulics of Single phase & 2-phase flow lines
- Sizing & Rating of Heat Exchanger.
- Vet & finalized PFD and P&ID
- PSV , Orifice & Control valve sizing
- HAZOP study.
- Propose conceptual solutions by planning, cost estimating & performing technical calculations
- Correspondence with client, vendors, and contractors
- Evaluating and Supervising Design projects.

ENGINEERING SOFTWARE

- Korf for hydraulics
- Aspen HYSYS.
- MS-Project
- In-house excel base calculation sheets for different equipment sizing.
- Maximo
- Delta-V. (HMI).
- Lotus Notes.

PROFESSIONAL EXPERIENCE

1. NEDUET (NED University Of Engineering & Tech.) (Since Jan 09 to Date)

Lecturer offering more than 2 years of teaching experience in the Department of Chemical and Polymer & Petrochemical Engineering. In-house trainings and attend various lectures on teaching & Project management tools.

Design Project

Following projects are supervised and completed successfully.

- Reforming of naphtha to produce high octane gasoline.
- Processing of LNG.
- LPG Recovery from off Gases.
- Naphtha Hydro treating.
- Visbreaking.

All these projects Based on true data from petroleum industries like National Refinery Limited, Pakistan Refinery Limited, Boscior Refinery Limited & NR Petro Tech involve Mass & Energy balances, Equipment Designs, Cost Estimation, PFD & PNID.

I have carried out designing of Following Equipments using different software's.

- Heat Exchangers & Pump Rating.
- Pressure Vessels & Furnace Rating.
- Pack & Trays Columns.
- Hydraulics.
- Valves & Compressors.
- Two Phase Separators.

TAUGHT COURSES

- Plant Design.
- Petroleum Refinery engineering.
- Simulation & Modeling.
- Fluid Mechanics.
- Thermodynamics.

2. ICI PAKISTAN PTA LIMITED

(APRIL 06 TO DEC 09)

Worked as Process and Shift Manager at Oxidation Unit in Technical Services and Operation Departments. ICI PTA is a unit of "ICI World Wide Group" producing 400,000 tonnes per annum of Purified Terephthalic Acid(PTA).

PROCESS JOB RESPONSIBILITIES

Responsible for overall operations of the processing plant and supervise the following aspects:

- DCS and PLC Board operation.
- Start-up and shutdown operation of equipments, monitoring of product quality.
- Handling of Process Abnormalities and emergencies.
- Prepared shut down/startup and emergency procedures.
- Provide on-site technical support to operations including: commissioning assistance, trouble shooting, performance testing, monitoring and optimization, de-bottlenecking, provision of operating guidelines and manuals, advice on chemical injection requirements and plant material balance reviews.
- Monitor and calculate daily consumption of utilities and its results. Take action against abnormal results and abnormal consumption.
- Identify and develop site modifications through to execution approval stage, and provide support to others for project execution.
- Monitoring plant and personnel safety plans.
- Study and plan for completion of projects.
- Turn around planning and implementation, safe shutdown & startup after completion of all jobs.
- Mass and Energy Balances of plant.
- Preparation of daily, weekly and monthly report of plant activities.
- Monitoring Data logging and plants parameters.

- Implementation procedures, policies and monitoring plant performance against all key performance indicators.
- To recommend plans and action for improvement to enhance production.
- Assure the continued integrity of the facilities through ensuring operating data is current, relevant and available, through updated site documentation, and through monitoring of plant conditions to ensure operations remain within the operating envelope.
- Safe and optimized plant operation with quality products
- Implementation and follow up of HSE regulations (Permit to Work System, HAZARD Identification, and Incidents Notification etc.).
- Manage routine works in safe hands through PTW system (I am also PTW issuer).

Modification Projects

1. Methyl Acetate Recovery Unit.

To improve the recovery of Methyl Acetate that produce during Oxidation Reaction by the burning of Acetic Acid. This will reduce the consumption of Acetic acid up to 160600 tones/annum. My responsibilities are as follows.

- Supervised the design and installation of new Pack & Tray column for the recovery of Methyl Acetate as a modification at Solvent Recovery Unit.
- Developed P&ID and Monitor tie-in jobs for new column to recycle the Methyl Acetate to Oxidation Reactor purpose is to reduce the consumption of Acetic Acid used as solvent.
- Supervised the design and installation of Auto tripping system to ensure the safe operation of this unit.
- Carry out the HAZOP, Mass & Energy Balances.
- Developed SOPs.

2. Installation & Commissioning of SAP(Supplementary Air Compressor)

As a part of Modification in order to improve the PTA production from 60 to 64 tones per hour a supplementary compressor (PD) has been installed. My responsibilities are as follows.

- Development of P&ID for cooling water circuit.
- Hydraulics of cooling water circuit.
- Correspondence with vendor/supplier.
- Monitor the tie-in jobs for cooling water circuit.
- Carry out compressor calculations regarding Work requirement and Energy balance.
- Developed SOPs.

I have experienced at below units of the Petrochemical Plant

- **Utilities Unit.**
- **Oxidation & Crystallization Unit.**
- **Solvent Recovery Unit.**
- **Compressor Unit.**
- **Drier Unit.**
- **Thermal Oxidizer Unit.**
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PROFESSIONAL QUALIFICATION

- PHD in chemical Engineering from Chonbuk National University South Korea (Under progress)
- M.E in Environmental from NED University of Engineering & Technology in Dec 2010 (**CGPA 3.25**).
- B.E in Chemical from DAWOOD College of Engineering & Technology got **77.42 % (CGPA 3.5)** in 2005.

TRAINING AND INTERNSHIP

Claraint Pakistan Limited

(01.07.2004 to 30.07.2004).

4 weeks training for working on Production of Leather dyes, Polyester dyes, Binder/Glues Formation (Polymerization), Quality Control Lab, Effluent Water Treatment.

COMPUTER SKILLS

- *Operating System*
 - MS-DOS (All Versions).
 - Windows (All Versions).
- *Packages*
 - Microsoft Office.(MS-Word, MS-Excel, MS-Power Point).
 - MS- Visio.

PROFESSIONAL MEMBERSHIP

- Professional member of PEC bearing PEC registration no# **CHEM/6907**.