

Muhammad Faisal Malik

BSc Chemical Engineer

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OBJECTIVE

Seeking a challenging assignment as “**Process Engineer**” with a reputed company to integrate domain expertise, technical and analytical skills to achieve organizational objectives.

PERSONAL PROFILE

Graduate Chemical Engineer with 09 years' hands on experience in Operation Engineering, Process simulations (**Aspen Plus & Aspen Hysys**), Development of PFDs & P&IDs, **Commissioning & Pre-commissioning** activities, Designing and Rating of S&T heat exchangers (**Aspen EDR**), Plant monitoring & troubleshooting and Health, Safety & Environment compliance.

EXPERIENCE : 10 YEARS

April 2017 - Present: (1.0 Year)

Specialized Chemical Solvent Factory (Addar Chemicals) , Jubail,KSA

Position: Process Engineer

Specialized Chemical Solvent Factory (SCSF) is first state of art plant in gulf region for production of Sulfolane (6000 MTPY), along with Sulphuric acid, Liquid SO₂ & 30% Oleum plants.

October 2016 – April 2017: (1.5 Year)

National Company for Sulfur Products (NCSP), Dammam,

KSA Position: Process Engineer

National company for Sulfur Products (NCSP) is a leading company in Sulfuric Acid (98.5%) production & Linear Alkyl Benzene Sulfonic acid (LABSA) (96%); and Petrochemical products, Formaldehyde derivatives (AF/UFC, PNS/SNF, & UF/MF/PF).

Sulfuric Acid Plant is **DCDA** process with Five catalyst beds to give **99.99% SO₂** conversion; **Aqueous Formaldehyde (AF-37) & UFC-85 with Haldor-Topso technology & capacity of 150/250 MTPD; along with Poly Naphthalene Sulfonate (PNS) with 120 MPTD capacity.**

September 2015 – July 2016: (1.0

Year) Tariq Float Glass, Shekhupura,

Pakistan Position: Deputy Manager

Tariq Float Glass is its latest venture commissioned in 2013 and with a production capacity of 550 tons/ day. Tariq float glass is available in a range of thicknesses and colors, from 2mm to 13mm with clear, tinted, reflective and mirror options. **Furnace exhaust gases heat was utilized to produce Saturated steam @ 15 TPH & 18 Kg/cm².**

January 2009 – September 2015: (6.9 Year)

Agritech Fertilizers, Pakistan

Position: Process Engineer

Hazara Phosphate Fertilizers Limited (HPFL) is first phosphate plant in Pakistan with 300/110 MTPD GSSP/Sulfuric acid (98.5%) & 300 MTPD Demineralized water. **Furnace exhaust gases heat was utilized to produce Saturated steam @ 12 TPH & 20 Kg/cm².**

Pak American Fertilizers Limited is one of the pioneer Fertilizer units of Pakistan. It is of 600/1050 MTPD Ammonia/Urea, 2400 MTPD Demineralized water & **3600 MTPD Superheated Steam for 23 MW power generation.**

June 2006– July 2006: (01 month)

Dawood Hercules Chemicals Limited, Intern Engineer

Studied Urea Fertilizer Plant-Synthesis Section process.

ROLES & RESPONSIBILITIES

- Working as Process Engineer at **Sulpholane, Sulphuric acid, Liquid SO₂ & 30% Oleum** plants; involved in erection & commissioning of plants, studying PFD & P&IDs; creating & carrying test procedures, preparing SOPs, Log Sheets, involved in DCS commission for Sulphuric acid.
- Worked as Process Engineer at **Aqueous Formaldehyde, Poly Naphthalene Sulphonate & Urea Melamine** plants; involved in erection & commissioning of plants as **Process Engineer**, studying PFD & P&IDs; creating & carrying test procedures.
- Worked at **Sulfuric acid plant & Single Super Phosphate** responsible for smooth operation, breakdown handling, control of process parameters, man power management with an emphasis on plant capacity enhancement and quality control.
- Worked at **Ammonia plant** with 600 MTPD capacity; at Desulphurization, Hydro treatment & reformer section.
- Worked at **Water Treatment Plant (Utility)**, efficiently handle water treatment units, Demineralization & Polished water unit, chemical handling for water treatment, Boilers, Steam Distribution, Nitrogen Plant, Cooling Tower and Raw Water Pumping Station.
- Hands on experience of Plant optimization, Startup/Shutdown & Turnaround activities; Conducted energy conservation studies of Sulfuric acid units for implementation of different cost saving proposals.
- Monitor process and quality parameters. Troubleshooting and corrective action wherever required.
- Rating of Heat exchangers & performance evaluation of Rotary equipment's like compressor, pumps etc
- Generation of daily, weekly, monthly and annual reports (plan for operational & maintenance activities); day-to-day operation of the production unit; Loading/Unloading & handling of Catalysts.
- Preparation and review for operation manuals, procedures, log sheets and Checklists.
- Update and prepare PFD's , P&ID's & UFD's, etc.
- Preparation and issuance of RMRR, monitors in-process chemicals addition to production process.
- Assurance of RM & FG confirmation with standard specifications, compliance with safety.
- Familiar with HAZORD and HSE studies and activities.

PRE-COMMISSIONING & COMMISSIONING

Fully involved in erecting & commissioning of Aqueous Formaldehyde (AF-37) & UFC-85 with Haldor-Topso technology & capacity of 150/250 MTPD; along with Poly Naphthalene Sulphonate (PNS) with 120MPTD capacity;

- Plant inspection, P&ID check, developing formats, checklists & documentation.
- Cleaning of pipe lines & equipment by water flushing & air blowing.
- Hydraulic & Pneumatic testing of Pipelines for checking welding joints.
- Segregation, washing, loading of packing & rashing rings in AF/UFC absorption columns.
- Commissioning & Startup of Smoke Tube Boiler, with capacity of 240 MTPD of Dry Saturated Steam @10.5 kg/cm².
- Commissioning of Chiller with capacity of 485 TR.
- Commissioning, Test run & Startup of Water Treatment Plant, Reverse Osmosis with capacity of 100 m³/hr, and Demin Plant with 45 m³/hr capacity.
- Erection, commissioning, Test run & Startup of Cooling Towers with capacity 1000 m³/hr.
- Commissioning, Test run & Startup of 02 DENAIR Dry oil free Screw Air Compressor (8 Bar each).

PROJECTS & ACHIEVEMENTS

- Actively participated in plant capacity enhancement from **100 TPD to 115 TPD** of Sulfuric Acid Plant & **300 TPD to 400 TPD** of Single Super Phosphate Plant.
- Worked as **Project member** for designing 300 MTPD Sulfuric acid (DCDA) & 750 m³/day Demin plant, complete Material balance, along with designing S&T heat exchangers & Economizers.
- Involved in study of converting remaining SO₂ to SO₃ in 4th bed of Catalyst convertor using Cesium based Vanadium Pentoxide catalyst as promotor.
- Using **Aspen Exchanger Design & Rating**, Performance evaluation of CGHE & HGHE (Shell & Tube exchangers).

- Condensate collection system of Sulfuric acid plant.
- Capacity enhancement of Demin plant upto 500 MTPD.
- Commissioning of 02 Air Compressors and Dryers (Atlas Capco, 8.5 Bars each).
- Commissioning of Sulfuric Acid Storage Tank (1000 Tons).
- Commissioning of Finned Type Heat Exchanger to utilize surplus steam, by product of SAP Plant.

TRAININGS

- Commissioning of Waste Heat Boiler (10MT/Hr; 20 bar).
- **First Aid and CPR** [Feb 2016]
- **Work Permit Procedures & Compliance** [Jul 2009]
- **ISO 9001:2000** (Faculty: University of Punjab, Pakistan) [Dec 2007]
- **OHSAS 18001:2007** (Faculty: University of Punjab, Pakistan) [Jan 2008]
- **Communication Skills Development Course** (Faculty: University of Punjab, Pakistan) [Jun 2004]

SKILLS

Design Software : Aspen PLUS & Hysys, Exchanger Design & Rating (EDR)
Process Drawings : MS Visio, AutoCAD
Graphics & Languages : MS Office 2015, MS Windows, Adobe Photoshop & 3ds Max; Vb.net, Oracle 10g

EDUCATION

B.Sc. Chemical Engineering [78%] [Dec 2003 — Aug 2008]
 University of the Punjab, Lahore

Higher Secondary Certificate (Pre-Engineering) [75.5%] [Aug 2000 — Aug 2002]
 Govt. College, Sheikhpura

Secondary School Certificate [83%] [July 1998 — Aug 2002]
 National Model School, Sheikhpura

MEMBERSHIP

Pakistan Engineering Council (PEC) [CHEM/7586] [2009-Present]

PERSONAL DETAILS

Religion : Islam
NIC : 35404-6107364-3
Marital Status : Married
DOB : May 11, 1984
Nationality : Pakistani
Passport No : CM0763643
Languages : English *Fluent*, Urdu *Fluent*