

USMAN ALI HASHMI

Eastern Zone Port Qasim Fauji Fertilizer Bin Qasim Limited, Karachi, Pakistan.

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PEC Registration Number: 11336

OBJECTIVE

To work as a team member in a dynamic organization where I can use my techno-managerial skills for the utmost benefit of the organization and gain relevant experience

WORK EXPERIENCE

Fauji Fertilizer Bin Qasim Limited (FFBL), Karachi

Nov 2014 – Present

Senior Executive Engineer - Operations – Urea and Diammonium Phosphate Plant

Key Responsibilities

- ✓ Lead Role in Commissioning team of Ammonia Storage Tank (5000MeT) at Urea plant.
- ✓ Actively participated in Inspections and Repair of HP Equipment's (Reactor, Stripper, Scrubber, Carbamate Condenser) by Stamicarbon during Annual Turnaround TA-2019
- ✓ Lead role in the Cold and Hot Start-ups and Shutdowns of Urea Plant.
- ✓ Supervised Fluidized Bed Urea Granulation Section Start up's and Shutdown's for Washing Activities after every 15-20days
- ✓ Lead Role in fortnightly start up and shut down activities managing a team of 50 employees at DAP plant
- ✓ Prepare, review and revise Operating Work Instructions and Procedures in line with standards and guidelines for safe and smooth plant operations.
- ✓ Implementation of Process Safety Management (PSM) modules.
- ✓ Plan and Execute Annual Maintenance Turn Around.
- ✓ Implementation of DuPont STOP series to ensure work place safety
- ✓ Execution of the daily operational tasks under the requirements of QMS (ISO 9001), EMS (14001) and OHSAS(18001) standards.
- ✓ Preparation and Execution of Internal and External Audits
- ✓ Incident Reports preparation as per PSM and record keeping and follow up for rectification.
- ✓ Ensure Safe execution of loading and unloading of hazardous substances like sulfuric and phosphoric acid and UF-85
- ✓ Develop Work procedures against new modifications, Hazard operability, shutdown planning, work force and Inventory management
- ✓ Conducting Safety Talks & Emergency talks with team and maintained record for ISO Audits
- ✓ Reviewing of Process package and mechanical packages for plant modifications and ensuring the execution as per SR/Package
- ✓ Develop execution plan for HORC meetings and follow up for rectification.
- ✓ Preparation of Hazard identification and risk control chart as per HAZOP study What if analysis? To ensure safe handling of hazardous substances like sulfuric acid, phosphoric acid, UF-85 and liquid ammonia.
- ✓ Participation in PHA meetings for the plant operation safety and process optimization
- ✓ Issuance of work permits of critical jobs after performing Job Safety Assessment (JSA) to provide safe work place for maintenance jobs.
- ✓ Safety Awareness / Emergency Response Planning (Ammonia Dry Run and weekly Fire Drill activities)

- ✓ Appraise performance and carry out Training Needs Assessment of the shift personnel and prepare plans for development.
- ✓ SAP Implementation: Preparation of DPR (Daily Production Reports), Daily Shift Engineer Report, Inventory Management, Raising Notifications for maintenance, Raising SR's and Raising PR's for as per budgetary plans.

Skill Improvement Programs

- 1) Centrifugal Compressors
- 2) Water Treatment Chemistry
- 3) Urea Reactor Siphon Jet Pumps
- 4) Steam and Steam Traps
- 5) Granulation Control
- 6) General Corrosion
- 7) SAP (System Application Product) ECC 6.0 software training
- 8) Bentley Nevada 3300 Vibration Monitoring System
- 9) Start up and Shutdown of Ammonia Plant by External Trainer.

Key Achievements

- ✓ Conducted Diagnostics of Urea Reactor and HP Stripper Operational Problems after Annual Turn Around (TA-2019) followed by emergency shutdowns.
- ✓ Lead member of the Commissioning team of Ammonia Storage Tank (5000 MT) and responsible for the execution of following jobs:
 - Execution of Tie In points between Old and New Ammonia Storage tank in Annual Turn Around (TA-2019)
 - Conducted Static and Hydro-Pneumatic test at design and test pressures
 - Supervised the activities like Oxygen displacement and Nitrogen Displacement
 - Supervised the Activity of Tank Cool down and First liquid Fill.
 - Conducted Testing of Safety devices (PSV's and VSV's)
 - Conducted JSA's for the safe execution of the tank construction
- ✓ Reduced the fortnightly DAP plant shutdown downtime from 24hrs to 17hrs. Hence increasing DAP plant production.
- ✓ Proposed and implemented modifications that contributed to increase plant Productivity like
 - Steam sparger installation inside the granulator to avoid lumps formation
 - Replacement of FRP vessels to SS vessels to reduce effectively planned shutdown time.
- ✓ Planned and Supervised the activity of the Replacement of Granulator Scrubber Separator vessel in annual Turn Around (TA-15)

Fauji Fertilizer Bin Qasim Limited (FFBL), Karachi

Sep 2013 – Sep 2014

Management Associate - Operations (01 year Training)

- ✓ Executed daily operational tasks as per work procedures and instructions at **Ammonia** and **DAP** plant (06 months rotation at each unit)
- ✓ Hands on experience on de-sulfurizers, furnaces, low and high temperature shift converters, ammonia converter, absorption and stripping towers, heat exchangers, compressors, pumps, waste heat recovery boilers, de-aerator, steam turbines, Hydrogen and Ammonia Recovery Unit, granulator, chemical reactors, cyclonic separators, conveyers, elevators, screens, crushers
- ✓ Participated in mechanical and electronic over-speed testing of speed turbines, hydro-testing of heat exchangers and methanator catalyst heating during Annual Turn around
- ✓ Studied P&ID & Line Tracing of front and back end of Ammonia plant. Did study on Interlocks & Loop Diagrams involved

SUMMER INTERNSHIP

Pakistan Oil Fields (POL), Pindori Fields, Rawalpindi

Jun 2011 – Jul 2011

Process Intern

- ✓ Worked on Well Heads to identify how the fluid is brought up from its underground reservoirs
- ✓ Studied in detail the production of LPG, Natural Gas and Stabilized Crude

EDUCATION

NFC Institute of Engineering & Technology, Multan

Jun 2008 – Jul 2012

B.S. Chemical Engineering - CGPA: 3.90 / 4.00

- ✓ Worked on the “Manufacturing of Nylon 66” as a final year project. Successfully completed the development of Manufacturing Process including material and energy balance, Equipment Design & Instrumentation and Process Control of the Nylon 66 produced from Hexamethylenediamine and Adipic Acid

Punjab College of Information Technology, Multan

Aug 2006 – Jul 2008

F.Sc (Pre-engineering) - Grade: 1st Division, 76%

TECHNICAL SKILLS:

- **Engineering Software's:** Aspen HYSYS, PLUS , CHEMCAD , MATLAB , C++
- Excellent written and verbal Communication Skills
- Knowledge on OH&S, Risk Assessment (short course on OHSAS from UET Lahore)