



Syed Hussain Imam Bukhari

SUMMARY

- Graduate chemical engineer with 39+ years' experience in Petrochemical industry.
- Extensive experience in Plant Operation and Management of large scale Fertilizer plants.
- Extensive experience of Project Management; handled 180 MUSD Debottlenecking Project of FERTIL Ammonia-Urea Plant. Led the HAZOP team for various stages of the project.
- Led the technical team for conducting feasibility studies for Installation of a Melamine production plant with the existing Urea Plant of Fertil. In this regard, between 2003 and 2006, various processes for the production of Melamine were studied and evaluated. Technologies looked at included:
 - TOTAL's Atofina, France
 - Agrolinz Melamine International(AMI), Austria
 - Casale, Switzerland

AMI's High Pressure process was further selected and its Basic Engineering was conducted along with the Licensor. The project was later shifted to a different site by Company.

- Led the Technical Team for preparation of TOR's for a 2000 MTPD Ammonia and 3500 MTPD Urea Plant of FERTIL-2 till completion of bid evaluation and award of LEPC contract. Led the HAZOP team for various stages of the project.
- Involvement in feasibility studies, equipment design – during plant design phase and normal plant operation –, material & energy balance, specification development including PFDs / P&IDs, pipe sizing, PSV / control valve sizing, design supervision, resource development, quality management & planning, developing all the procedures for plant monitoring & evaluation and also have experience of various simulation soft wares.

Sound knowledge & experience of:

- Strategic Planning & Execution Skills
- Leadership & Commanding Skills
- Conflict Management Skills
- Negotiation Skills
- Objective setting & Expenditure Control

Led teams for Plant optimization and trouble-shooting for more than 25 years at FERTIL/ Pakarab /FATIMA Fertilizer plant sites. Responsibilities included production reporting, budget preparation (OPEX &CAPEX) and developing all the procedures for plant commissioning, monitoring & evaluation, process simulation, optimization; HAZOPs; P&ID revisions and the preparation of engineering reports.

I was involved in the commissioning / erection of new ammonia & urea complex till conducting of successful performance tests. As part of Management Team, I have led task forces for developing technical terms of reference for debottlenecking of existing plants and for setting up new Fertilizer complexes. Extensive experience of preparing

and supervising reports preparation for the Company Boards along with making Executive Presentations. Having long experience of working in internationally reputed organizations, I have cordial relationships with the managements of reputed Licensors and EPC contractors like KBR, Haldor Topsoe, Uhde, Stamicarbon Saipem , GPN, Samsung, Technimont, Urea Casale etc.

EXPERIENCE

December 2009
till 13 Aug 2014

General Manager (Operations, Technical & Projects), Fatima Fertilizer Company, Pakistan

Fatima Fertilizer Complex comprises of a 1500 MTPD KBR's Ammonia, 1500 MTPD Stamicarbon's Prilled Urea, GPN's Ammonium Nitrate / 1400 MTPD Uhde's Granular CAN, Uhde's 1500 MTPD dual pressure Nitric Acid Plants and a 1200 MTPD NP plant using Fatima/CFIh technology. Managed the Operations and Technical Departments and Responsible for safe operation of the plants. Technical Services Department included Process Engineering, Project Engineering, QA/QC, Laboratory & Training, Warehouse, IT and local Procurement Sections. Fatima Fertilizer plants were successfully commissioned in March 2010 (NP plant in April 2011) and have been operating normally since then. Urea plant has achieved a maximum capacity of 120% of design. Responsibilities included managing a young and energetic team of engineers and other professionals and achieving of business objectives in terms of improving HSE standards, plant reliability, and product quality and enhancing the production capacity.

Technical Support Manager, Projects Division, FERTIL Abu Dhabi, UAE

2005–Sep
2009

Responsible for preparing FERTIL–2 Project TOR's to build a large scale new ammonia-urea complex to produce 3500 MTPD of granulated urea.

Responsible for preparing and executing Urea Debottlenecking Project (UDP) to enhance the Urea Plant capacity from nameplate of 1500 MTPD to 2700 MTPD. This project involved installation of a Granulation unit and a Carbon Dioxide Recovery Plant along with modifications to the Urea Plant.

Responsible for reviewing all the process requirement and documentation prepared for large scale ammonia-urea complex. Some of the major activities performed are as follows:

- ▶ Prepared a detailed Technical Bid Evaluation report for Client and Shareholders. Conducting meetings with shareholders to discuss and explain the various queries.
- ▶ Face to face bid clarification meetings were held with each bidder to clarify / resolve all the technical issues.

- ▶ Preparation of technical bids queries / clarifications and were sent to all bidders seeking missing and ambiguous information, variances from ITB and/or design related alternatives proposed.
- ▶ Technical bids received from three bidders were reviewed in detail and comprehensive tabulation was prepared comparing the bids with the ITB requirements
- ▶ Site visits were coordinated for various bidders to understand the scope of work.
- ▶ Queries received from various bidders were reviewed and replied in response to ITB issued for large scale ammonia – urea complex.
- ▶ Reviewed Invitation to Bid documents for ammonia-urea complex of 2000 & 3500 MTPD capacities prepared by JACOBS Consultancy, USA. These also include the basic specifications for various process requirements.

1995–2005 Technical Department Manager FERTIL Plant, Ruwais, Abu Dhabi FERTIL

Plant comprises of 1050 MTPD Haldor Topsoe design Ammonia plant and a 1500 MTPD Stamicarbon design Urea plant with Prilled finishing section. The complex also includes all associated Utilities units and two 20,000 MT ammonia storages and two 45000 MT Urea bulk storages. As a result of various in-house studies, plant capacities of 1300 MTPD Ammonia and 1800 MTPD Urea were achieved on a consistent basis. Further, the on-stream factors were raised to about 99% for Ammonia and 98% for Urea Plants. Turnaround frequency was increased from yearly basis to once in three years, progressively.

1993-1995 **Section Head Process Engineering FERTIL Responsible for process engineering section with main functions as:**

- Provide Process Engineering services to all Fertil units.
- Quarterly evaluation of ammonia, urea and utilities plants.
- Feasibility studies for new projects and existing units revamp.
- Studies to improve plant safety, capacity, service factor and energy conservation.

1986-1993 **Section Head Process Engineering Pak Arab Fertilizers. Established the Process Engineering section (as Section Head) at Plant Site and started a comprehensive Technical Monitoring Program as previously there was no such set-up.**

- Revamped the Process Engineering section and started a comprehensive Technical Monitoring Program.
- Introduced Plant performance and monitoring program for equipment performance evaluation, plant energy/material balance, plant steam/condensate balance, and natural gas balance and production test for accurate reporting. Procedures for plant performance evaluation were developed. Started various forums for plant modifications and to review the plant

1983-1986 **Process Engineer, FERTIL Abu Dhabi**

Worked with Chiyoda Engineering of Japan for the commissioning and start-up of FERTIL 1 facility and completed the performance tests for all units.

- Process plant performance evaluations.
- Trouble shooting of process related problems.
- Comprehensive study on HAZOP for various units.
- Ammonia plant catalyst evaluations and Contact with equipment vendors. Worked closely with Haldor Topsoe and Stamicarbon as Lead process engineer to resolve the initial teething problems of the newly commissioned plants.
- Increasing ammonia/urea plants capacities from 100 to 130 & 120% respectively.
- Responsible for providing the services to three plants on various plant operational issues.
- Established the comprehensive Technical Monitoring Program.
- Services to three plants as Lead Process Engineer.
- Experience of ammonia plant catalysts replacement and reduction.
- Responsible for catalyst loading of primary reformer, shift converters and ammonia converter.

1977-1982

Process Engineer at Pakarab Fertilizers Ltd Multan Pakistan

Performed similar activities as described above

EDUCATION

- ▶ B.Sc. Chemical Engineering, Punjab University Lahore, Pakistan, 1971–1975

REGISTRATIONS/AFFILIATIONS

- ▶ Pakistan Engineering Council

PERSONAL

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