

INTAKHAB H. SHAH

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BRIEF INTRODUCTON & PROFILE

- Chemical Engineer with MBA, 29 years of work experience in leading Fertilizer, Chemical and Petrochemical companies in Pakistan and the Middle East.
- Hands on experience of Plant operations, Process engineering, Project Management, Manufacturing Excellence, Energy & Sustainability.
- Led Operations, Process Engineering, Supply Chain, HSE and Manufacturing Excellence/Benchmarking teams.
- Worked as Project & Business Development Manager_ carried out screening & feasibility studies, Commercial and financial evaluations, FEED & Engineering Studies, Implemented and Commissioned Business-Critical Projects.
- Developed & implemented Manufacturing Excellence Framework linking Strategies, responsibilities & KPIs to Company Bottom Line.

EDUCATION

EMBA **2003-2005**
(Lahore University of Management Sciences)

Bachelor in Chemical Engineering **1986-1991**
(Mehran University of Engineering & Technology)

EXPERIENCE

National **Methanol** Company (IbnSina) **Dec 2017-date**
SABIC & CTE (Celanese Corp. & DUKE Energy) JV Company
Current Assignment _ Process Engineering Lead

Responsibilities:

- Member Merger Committee/Team
 - Identification & implementation of Synergies across companies, considered for a merger.
- MeOH Plant DBN/Energy Efficiency Improvement Projects:
 - Review of Feasibility Study (developed by Jacobs) – Completed.
 - Review of the 'basis of design' and 'scope of work document' – Completed.
 - Participate in Technology Evaluation & Finalization – Completed.
 - Participate in finalization of Technical Contract for PDP - Completed
 - Support PDP Study to ensure delivery of PDP deliverables vis-à-vis Project Intent – Completed
 - Review of ITB for FEED & EPC – Completed □ Support FEED & EPC Studies – TBD.
- Site Integration Projects
 - Screening of Ideas and development of CDPs
 - Coordination, Review, follow-up and Completion of on-going PDPs & Detailed Design Studies through 3rd party Engineering companies
- Site Energy & Sustainability Lead and Focal Point
 - Deliver SABIC 2025 Sustainability Vision and Targets for the Site.
 - Develop, maintain and update Site Inventory of Projects & initiatives
 - Develop, maintain and update Site Sustainability data and Performance database
 - □ Develop Site Energy Performance Indicators & KPIs for monitoring & Control.
 - Collect, screen and verify Monthly and Yearly Site Data_ carryout analysis for deviations & opportunities for improvement.
 - Management Reporting of Energy & Sustainability inputs for Company and Board Material
- Plants Process Support
 - Provide Technical support to Operations as well as Process Support Team within Process Engineering department.
- Saudi Energy Efficiency Center (**SEEC**) Focal Point

- Deliver SEEC Targets 2019 (Phase-1) and 2025 (Phase-II)
- Maintain and update Site Inventory of Data, Initiatives and Projects for all the Plants
- Coordinate with SABIC Corporate, SEEC and Energy Consultants (Philip Townsend Associates Inc.) to complete Benchmarking Studies.
- Collect, screen and verify Monthly and Yearly data for submission with SABIC Corporate and SEEC
- Ensure Data consolidation, verification & validation by SEEC
- Carryout Energy Credit-Deficit Analysis for the Site
- Screen improvement ideas and develop Conceptual development packages for feasible & tangible projects.

Key Achievements & Contributions:

- Reviewed Basis of Design & Feasibility Study, carried out by Jacobs Engineering. Proposed further improvements and Project Strategy to enhance Production capacity, Energy & Feedstock efficiency as well as reduction in the Project timeline by using existing equipment and the site synergies.
- Carried out detailed Network Analysis for Site Steam circuit. Proposed modifications and high value projects to reduce fuel consumption and free up NG for the use as feedstock at Methanol Plant, resulting in Production increase by 20% and significantly reducing the operating & fixed costs.
- Developed and Proposed Vertical Integration Project for SABIC Oil-To-Chemical Project.
- Carried out detailed study and evaluation of the neighboring SABIC Affiliate to improve Energy efficiency and Feedstock utilization at Site. Proposed Site Synergy Project with a Potential of saving US\$ 500-600 Million in Capex and significant reduction in Energy usage as well as Fixed & Operating Costs. Proposal is currently under evaluations by the Site and its JV Partners.
- Conducted SABIC wide SEEC- Energy Audits for Ammonia-Urea, Methanol and Crackers Sites in Jubail & Yanbu and Proposed Projects for closing the Energy Gap and significantly increasing the value for Affiliates and SABIC.

Saudi International Petrochemical Company (SIPCHEM)

Jan 2012_Dec 2017

Assignment _ Section Manager Process Engineering

Key Achievements & Contributions:

- Reviewed Methanol Plant Feasibility Studies carried out by JACOBS, CASALE and JM respectively in 2011, 2012 and 2013. Proposed a Synergy option and a DBN Scheme to enhance Production Capacity by 40% efficiently using Site Feedstock and drastically reducing energy consumption at Methanol and overall site.
- Led the Feasibility Study, with Jacobs Engineering at its London office in 2014-2015. Reviewed various technology options e.g. **POX, ATR, OTR**. The Feasibility Study validated my proposed scheme and the projections.
- Completed Project FEED Study in Jacobs Engineering offices at Reading UK in 2016 and later the Detailed Engineering by **eTECH**, a South Korean EPC Company in its Head Office in Seoul in 2016-17.
- Carried out Site Integration Study as part of the DBN Project
- Conceived and developed Synergy Project with neighboring Plant aimed at securing additional feedstock and sale of byproducts creating significant value for both the companies in terms of economic and sustainability improvement. Completed Pre-Feasibility, Feasibility & PDP studies with Jacobs Engineering and **TECHNIP**.
- Together with Strategy & Business development Group, carried out Techno-economic evaluations of the DBN Project and led the technical discussions with the JV Partners.
- Developed and implemented **Manufacturing Excellence** Initiative fully aligned with Balance Scorecard. Revised and developed smart manufacturing KPIs linked with Manufacturing Objectives and the overall company strategy & bottom line. Together with IBM, developed Dashboards for monitoring and presentation on monthly basis_ automated KPIs data retrieval from SAP (Production, Finance, HR & Maintenance modules).
- Reviewed and provided inputs on all the supply and sales contracts to commercial & legal functions and led the Techno-Commercial negotiations. Challenged H2 Sales agreement, which was signed by the Company in 2011 and ultimately cancelled the same, creating value for the Company equal to US\$ 17 Million.
- As Focal Point for Saudi Energy Efficiency Center, fully engaged with SEEC and its Consultants Philip Townsend and Associates Inc. during development of Energy Benchmarking Methodology and strategy for Petrochemical Sector in the Kingdom. Finalized Scope & boundaries of Each Plant at Site. Developed Data acquisition & collection templates for each Plant. Participated in Benchmark study for the Plants and subsequently delivered SEEC Targets 2019 (Phase-1)
- Managed Process Engineering Department. Provided Technical support to Operations. Developed Project Technical Proposals and Conceptual Design Packages. Developed Department Objectives and Budgets. Developed and implemented Department Training & Development Plans. Conducted Annual Performance Reviews and Appraisals

Captain PQ Chemical Industries

2010 _ 2011

Assignment _ Director Manufacturing & Engineering**Key Contributions:**

- Led Operations, Engineering, Supply chain and Plant HSE & admin Teams for multiple operating Sites in Pakistan with a fairly large & diverse workforce.
- Developed Systems & Procedures in Operations and Supply Chain functions.
- Hired and Trained Staff to support business strategy and company objectives.
- Implemented improved Raw Materials & Product flow schemes aimed at enhanced availability, reliability and reduced working capital as well as efficient delivery & customer support.

ICI Pakistan Ltd (An AkzoNobel Company)

2008 _ 2010

Assignment _ Technical & Projects Manager, Manufacturing Excellence Manager**Key Achievements & Contributions:**

- Managed Process Engineering, Laboratory and Projects functions
- Managed Projects, Business Development and Manufacturing Excellence departments.
- Led Customer Forum and Quality Management Teams
- Developed Manufacturing Strategy & vertical integration projects for the Soda Ash Business.
- Developed & implemented RO Plant Project to resolve Boiler Feed water issues and the reliability of Boilers.
- Successfully delivered US\$25 million 65-ktpa Soda Ash Expansion project as Project & Commissioning coordinator
- Led the transition of HSE system & procedures at Soda Ash Site from ICI to AkzoNobel subsequent to worldwide acquisition of ICI plc. By AkzoNobel.
- Reviewed existing practices of reported Manufacturing Excellence metrics and revised the same in line with International reporting methodology.
- Developed Variable cost and Conversion efficiency improvement tools.
- Developed IDPs and Succession Plans for the reporting staff and implemented the same.
- Company representative for Government liaison and communications.

Pakistan PTA Limited, a subsidiary of ICI plc.

1997 _ 2007

Assignments _ Plant Manager/ Process Engineering Manager**Key Achievements & Contributions:**

- Managed Plant Operations and Process Engineering departments
- As a member Commissioning team, safely and successfully commissioned US\$500 million PTA Plant (a Petrochemical Plant). Subsequently, working as Plant Manager, Plant was normalized, optimized and de-bottlenecked to achieve 120% of flow sheet capacity.
- Investigated and improved process operations at Pakistan PTA including: condensate recovery on boilers from 83% to 94% saving about PKR 60 Million/year, reduction in Catalysts consumption saving PKR 65 Million/year, improved Product Particle size distribution to address customer concerns and improving their conversion efficiencies.
- Led O2 DBN studies and successfully delivered Capacity enhancement Project at Pakistan PTA. Plant Capacity increased to 115% of flowsheet.
- Developed and implemented an absorption chillers Project to use excess LP Steam at Site, as a Project Manager. This resulted in a shutdown of 1 MWH Mechanical chillers.

Fauji Fertilizer Company Ltd. Pakistan

1991 _ 1997

Assignments _ Ammonia & Urea Plants Operations Engineer**Responsibilities:**

- Plant Operations aimed at Production, variable cost and Quality and waste control
- Operators Training and Skill Development

KEY COURSES & TRAINING

- Attended numerous Training courses and Management Programs related General & Operations Management, Financial Management, Manufacturing Excellence, Lean Six Sigma, Building High Performance Teams, HAZOP Studies & PHA Techniques for Process Safety & Risk Management, Responsible Care Management System, HSE & Quality Management