

ABUL H

(SENIOR CONSULTANT)

Introduction & Background

- A highly experienced Chemical Engineer with over 29 years of diverse industry experience spanning petrochemicals, pharmaceuticals, industrial gases, and plastics.
- He holds a Ph.D. in Chemical Engineering from IIT Bombay and an MBA in General Management with a specialization in Marketing Management from Annamalai University.
- His career is distinguished by his expertise in modeling and simulation, process engineering, and plant troubleshooting, along with a proven track record in technology development, process optimization, and leadership.

Functional Tool Expertise:

ASPEN Suite (Aspen Radfrac, Aspen Hysys, Aspen Dynamics, Aspen Icarus, Aspen Custom Modeler)

Experience summary

SABIC Research & Technology Pvt Ltd, Bangalore(Staff Scientist)

- Involved in modeling & simulation, process engineering, plant troubleshooting, conceptual design package development, catalyst scale-up, feedstock optimization, and Lean Six Sigma training. Managed process safety and HAZOP studies.

Praxair Inc., USA, Bangalore (Associate Vice President)

- Led technology development in sales-driven applications, market analysis, sales & commercialization, and business development.

Granules India Ltd, Hyderabad (General Manager & Head -Process Engineering & Technology)

- Oversaw facility creation, process design packages, plant operation, and due diligence. Managed industry/academy relationships and spearheaded significant R&D projects.

General Electric, Bangalore (Staff Engineer-Global R&D Role)

- Engaged in corporate technology licensing, R&D, BEP, DEP, plant support, and modeling & simulation.

Reliance Industries Ltd, Bombay (Manager-Corporate Technical Services)

- Focused on process engineering, plant troubleshooting, and operation research.

CAD Center, IIT Bombay (Research Engineer)

- Worked on ASPEN modeling & dynamic simulation, and control system design for IOCL Refinery Project.

Project Experience:

- **Granules India Ltd:** Led the creation of R&D facilities, developed a pilot plant for p-Aminophenol, and played a key role in proposed JV projects.
- **Praxair Inc:** Managed the development of a skid-mounted cryogenic crystallizer and secured significant commercial agreements.
- **SABIC:** Received CEO Award for outstanding contributions and achieved significant cost savings and process improvements.

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Technical Expertise:

1. ASPEN Suite modeling & simulation & Training – 30 years in Aspen Radfrac, Aspen Hysys, Aspen Dynamics, Aspen Icarus, Aspen Custom Modeler
HMB (heat and material balance), PFD (Process flow diagram), Basic P&ID
2. Process Engineering: Process costing (CAPEX & OPEX within \pm 30%), RMC (Raw Material Costing), NPV, IRR
BEP (Basic Engineering Package), DEP (Detail Engineering Package)
CDP (Conceptual Design Package), PDP (Process Development Package), E&PM (Engineering & Project Management)
3. Plant troubleshooting - 28 years (Plant data analysis, RCA, Lean & Six Sigma)
4. Catalyst scale up & Feedstock optimization
5. Fundamental modeling and Statistical analysis (DOE, Transfer Function, Prediction Modeling)
6. Lean Six Sigma & Training - 24 years
7. Process Safety & HAZOP

Professional Certifications:

- He has led significant R&D initiatives, managed industry-academia collaborations, and contributed to projects with a combined value exceeding \$181 million.
- He is recognized for his contributions to process safety, catalyst scale-up, and feedstock optimization.
- His work has earned him numerous awards, including the SABIC CEO award and GE Global Technology Awards.
- Additionally, he holds patents in the US and India and has published several articles in reputed journals.
- Black Belt, Lean Six Sigma 1st RABSQ (USA) 2013
- Green Belt, Six Sigma 1st General Electric (USA) 2002
- PMC Project Management Course 4 days General Electric (USA) 2007es

Education:

1. MBA General management w/ specialization in Marketing Mgt
2. Ph.D. Chemical Engineering 1st IIT, Bombay
3. M. Tech. Chemical Engineering 1st IIT, Bombay 1991
4. B. Tech. Chemical Technology w/ specialization in Petrochemical & Petroleum refinery engineering