
RAJENDRA PATIL

ME (Chemical engg) & MBA operations managment

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Competencies Overview

Plant Erection and Commissioning	Process Development and Scale up	Project Management
R & D Projects	Operations Management	Production Planning

Occupational Contour

Aug'17 – 2020: Tridiagonal Solutions Private Limited Pune
Manager - Erosion Experimental Facility - EFD department

Job Profile

- To manage the day to day operations of Experimental facility providing guidance, encouraging team work and facilitating related professional work processes in order to achieve high performance standards.
- Understand project requirement by interacting with global team. Development of new Process/product on time as per client requirement .
- Cost reduction in existing no products process by suggesting new alternatives to cut cost formula optimization and hunting new and cheaper Process to replace existing ones.
- To organize and conduct experimental trials of new projects (trouble shooting) . Maintain relationship with customers, understand their needs and create pipeline projects for customer based technical inputs.
- To monitor projects progress, identify new project opportunities and share regular update with business head & client.
- To coordinate with internal and external parties at the appropriate levels to ensure smooth project execution .
- To develop procedures for safe and efficient working with SOP/HAZOP, Project Scheduling, trouble shooting, procurement and maintenance planning of project

Significant Projects

- ✓ Successfully completed three projects from clients like Chevron, BP, Halliburton

Apr'14 – July'17: Nagarjuna Fertilizers and Chemicals Limited, Hyderabad
Sr. Scientist - Project Implementation & Plant Operations

Job Profile

- Prepare and review equipment Data sheet, PFD, P&ID and other process engineering activities for process development
- Coordinate and Review Basic & Detailed Engineering for new projects
- Coordinate with project contractors to execute project with respect to quality, safety, cost and time of completion
- Project site management with involvement in procurement, testing and bill certification during erection and commissioning
- Responsible for shift management, stock availability, trouble shooting etc. necessary for plant operations
- Monitor plant operations by maintaining SOP, BMR and optimize process parameters for different processes like MEE, Distillation, Pretreatment and Gasification

Significant Accomplishments

- Actively participated in "Erection and Commissioning" of batch process plants operating on PLC/DCS system
- Erected and commissioned the plant of capacity 1TPD for Lingo-cellulosic ethanol and hydrogen



- Operation and Maintenance of Pilot plants to generate data for scale-up and cost analysis

Jan'07 – Apr'14: Nagarjuna Fertilizers and Chemicals Limited, Hyderabad
Scientist - Research and Engineering services

Job Profile

- Prepared Project Procedures, Execution Plans and Quality Plans with proper execution of the new project activities
- Execute Design, Implementation, Testing & Documentation work assignment to appropriate standards and quality systems for new R&D projects.
- Work with Research team to incorporate new products and processes into the facility; including effective process improvement, while ensuring a cost effective operating methodology and successful implementation.
- HAZOP study & Process Risk Assessment of new projects/ Equipment modifications. Well conversant with Design codes, HSE and regulatory requirements.
- Prepare and present weekly and monthly report for the project and identify gaps and plan further

Significant Accomplishments

- ✓ Developed new process of Biomass pyrolysis for maximum biochar yield, biochar and carbon fertilizer tested in fields,
- ✓ Freeze concentration technology development
- ✓ Successfully proved patented concept on continuous production of potassium sulfate in multi staged fluidized bed- obtained 98.5% K₂SO₄ product using dilute SO₂ as fluidizing medium and KCl as feed material

Oct'05 – Sept'06: National Chemical Laboratory, Pune
Project Assistant - Catalysis Division

Job Profile

- ✓ Operating high-pressure Fixed bed reactor for various Catalytic Reactions.
- ✓ Operation and maintenance of various reactors and analytical instruments
- ✓ Documentation and report preparation like SOPs, process procedures, process improvement and failure analysis

Major Projects

- Fischer-Tropsch process optimized for maximum diesel hydrocarbon yield
- Catalyst synthesis and Characterization

Sep'06 – Dec'06: Bharati Vidyapeeth College of Engineering, Bharati Vidyapeeth University, Pune
Lecturer - Chemical Engineering Department

Academic Scan

2019	Certificate on Six Sigma Green Belt from Ministry of Micro, Small & Medium Enterprises (PPDC) Agra U.P.
2014	PG Diploma in Intellectual Property Rights from Osmania University, Hyderabad
2012	MBA in Operations Management from Indira Gandhi National Open University, New Delhi
2005	M E (Chemical Engineering) from Bharati Vidyapeeth College of Engineering, Pune
2002	B E (Chemical Engineering) J N E C, Dr. Babasaheb Ambedkar Marathawada University, Aurangabad

Personal Snippets

Date of Birth:	17 th November, 1980
Permanent Address:	Plot No. 32, Ayodhya Nagari, Malegon Road, Taroda (Kh), Dist. Nanded – 431605
Current Address:	Flat No 414, Wing F, Windsor County, Dattanagar Road, Ambegaon Budruk, Pune 411046
Languages known:	English, Hindi, Marathi and Telugu

