

AJIT SINGH

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JOB OBJECTIVE

Seeking senior level assignments in Process Engineering, Project Management, Designing, New Technology, Product Development and Engineering Procurement & Construction with an organization of high repute preferably in manufacturing industry, R &D, Technology Transfer.

- A competent professional with 11+ years of experience in Process Engineering, Project Management, Plant Operations, Manufacturing, Process Design, Operation, R & D and New Technology,.
- Adept in scaling up on new products as well as existing products from pilot scale to commercial production level
- Proficient at managing & leading teams for running successful process operations & experience of developing procedures, service standards for business excellence
- Possess excellent interpersonal, communication and organizational skills with proven abilities in team management, customer relationship management and planning
- Demonstrated excellence by evaluating / enhancing performance of team against the set targets, doing need based manpower planning and providing valuable feedback for improvement

CORE COMPETENCIES

- Mapping business requirements and coordinating in developing and implementing processes in line with the pre-set guidelines
- Undertaking responsibilities of removing unnecessary procedures in processes; ensuring uniformity in the process understanding at the client's and the organization's end and conducting internal process audits & process reviews for ensuring strict adherence to the process parameters/systems as per defined guidelines
- Ensuring adherence to quality norms throughout the implementation process
- Mapping client's, identifying improvement areas & implementing measures to maximize customer satisfaction levels
Ensuring continuous interaction with the customer to make sure that area of concern can be worked upon for improved service levels

IT SKILLS

Well versed with ASPEN PLUS 7.1, CHEMSAP, MINITAB, MATLAB, VISIMIX, DYNOCHEM, MixIT, ANSYS

ORGANISATIONAL EXPERIENCE

Apr' 16-till now Asymchem Life Science, Tianjin (CHINA) Senior Research Scientist-Process Engineering

Responsibilities

Process Engineering Department:

- Interface with client and project team to define process design scope and process design deliverable.
- Advise on equipment selection, participating in detailed design development and working with Technical Services to ensure robust solutions are implemented to ensure reliability
- Providing technical expertise around complex issues; optimisation of manufacturing and packaging plant and equipment as well as ensuring site operations in accordance with Good Manufacturing Practice (GMP) and Good Engineering Practice (GEP)
- Collaborating with Process R&D team to oversee the technological transfers from the lab to the manufacturing site.
- Working with a matrix environment, along with different site functions, e.g. Production, QC, QA, HSE, Engineering, to ensure the deliverables of Process Validations and Commercial campaigns
- Launching or supporting new site initiatives and procedures to improve productivity and enhance the pivotal role of Commercial Manufacturing team during tech. Transfers
- Familiarity with and understanding in leveraging modeling and simulations for process development and tech transfer needs. Demonstrated initiative in developing and implementing innovative solutions
- Analyse and examine results from R and D to ensure data sufficiency, Recommend special equipment and changes to the process to improve the process
- Communicating effectively with clients as the technical representatives during Process Validation and Commercial campaigns.
- Use of Simulation Software packages such as VisiMix, Dynochem, MixIT, CHEMSEP, CHEMCAD for understanding the problems w.r.t Design and Optimization.
- With Experience of Simulation Software and resolve the Bottlenecking and Troubleshooting with Mixing, Separation, Crystallization, Evaporation, Distillation and others Chemical Engineering Unit operation.

- Hands on experience of CFD Simulation Software such as Ansys,Fluent and MixIT to take advantage and understanding the flow operation of New Technology Operation over batch process and for Semi-Batch Operation.
- Participate in the discussion,confirmation and re-check of various engineering proposal.
- Define and establish proper criteria and tools for comparing current and new technology in terms of product cost,sustainability,throughput & flexibility.
- Process development and Basic Engineering , Create and develop basic engineering package content like PID's MEB's PFD's
- Calculations like Hydraulic calculation, pump sizing, equipment sizing, material & energy balance.
- Define and evaluate the proper reaction technology to be applied for new molecules.
- Improve process yield through current process parameter tuning.
- Scout and evaluate new reaction and separation technologies for current product portfolio.
- Weekly communications with clients & discussed the ongoing projects details ,upcoming improvements for the projects with end to end discussion.
- Collaborate with diverse teams to successfully transfer new technology and processes to customer sites.
- Utility Load Calculation of existing product as well as New product.
- Identifying BOQ of process equipment's with facility creation, scale up & capacity enhancement.
- Project Planning- Preparation of micro schedule, planning of feasibility, optimization & scale up of process, facility mapping with process engineers, and identification of regulatory & statutory requirements.
- Basic design calculation of process equipment's (reactor, centrifuge, sparkler filter, heat exchanger, nutsche filter, agitated nutsche filter cum dryer) for process improvements.

Feb' 14-Mar'16

Dr. Reddys Laborateries ,Hyderabad (INDIA) Assistant Manager-Process Engineering

Responsibilities

Process Engineering Department:

- Organized project document such as technical specification sheet, techno-commercial data sheet, process package and BFD, PFD & P&ID for the process and Equipment Layout for products.
- Evaluating chemical processes and unit operations to improve operating efficiency and rate, product quality, on-stream factor and economy
- Managing process development to commercial batch activities
- Conducting process scale up activities and stimulation
- Administrating Process development, design, scale-up activities
- Participating in HAZOP studies of products & implementation as per the process requirements for safety & friendly operation
- Training process mapping, block diagram, basis of design, process flow diagram and P & ID
- Directing with project, production, technology transfer & engineering department for flexibility project in existing Plant till batch charging
- Utility Load Calculation of existing product as well as New product.
- Identifying BOQ of process equipments with facility creation, scale up & capacity enhancement.
- Project Planning- Preparation of micro schedule, planning of feasibility, optimization & scale up of process, facility mapping with process engineers, and identification of regulatory & statutory requirements.
- Basic design calculation of process equipments (reactor, centrifuge, sparkler filter, heat exchanger, nutsche filter, agitated nutsche filter cum dryer) for process improvements.

Highlights:

- Installation, commissioning and qualification of Polonosartan (Launched Product) in existing facility with compliance in timeline & safety.
- Installation, commissioning and qualification of Capacity Enhancement of Existing Product from 1.5 MT/Month to 4 MT/Month.

PREVIOUS ORGANISATIONAL EXPERIENCE

May' 10 - Jan' 14

Teva API India Limited, Gajraula (INDIA)

as Sr. Process Engineer

Growth Path:

May 10 – May'12:

Process Engineer

May 12 – Jan'14:

Sr. Process Engineer

Responsibilities:

As Process Engineering Department:

- Coordinating with technology transfer department for new product scale up, executing facility change and observing validation batches for smooth running as per process flow and operations parameters
- Accountable for:
 - Scale-up and validation of scale-up batches of intermediate and APIs
 - Batch studies for the yield and quality improvement by using Visimix / Dynochem
 - Material and Energy balances for the existing and new processes
 - Basic design calculation of process equipments (reactor, pumps, centrifuge, sparkler filter, heat exchanger, nutsche filter, agitated nutsche filter cum dryer) for process improvements
- Training process mapping, block diagram, basis of design, process flow diagram and P & ID
- Appraising PFD, P&ID and implementing them for improvement of system
- Providing surface area of all process equipments (reactors, dryers, centrifuge, tanks etc.) for cleaning validation protocol
- Arranging equipment equivalency report of existing product Directing with project, production, technology transfer & engineering department for flexibility project in existing Plant till batch charging

Highlights:

- Successfully reduced cycle time of Rosuvastatin from 41 hours to 30 hours through batch monitoring studies Yield Improvements of Ezetimibe API from 0.74 to 0.81.
- Enhanced the capacity of Rosuvastatin from 700 Kg/Month to 1.3 MT/Month & Clarimythrocyn from 11 MT/Month to 15 MT/Month
- Increased Alendronic Acid from Lab Scale to commercial scale co-ordination with Engineering & Maintenance Department
- Facility Creation in Macrolide Plant Manufacturing Plant for Ezetimibe Intermediate for Production Capacity of 250 Kg/Month

PREVIOUS ORGANIZATIONAL EXPERIENCE

Mar' 06 – May' 07

Paradeep Carbons Ltd., Paradeep (Dembo Group), Orissa (INDIA) as Production Officer

CERTIFICATION

Got Certificate on Short Term Training Programme on Communication Clinic: Written conducted by Dept. of Humanities.

Got 1st Prize for General Knowledge Certificate.

TRAININGS

Summer Vocational Training 4 wks from IFFCO, Aonla Unit (Bareilly) under Urea Section of Production Department.

EDUCATION

- M.Tech. in Chemical Engineering with specialization of Process Modeling & Simulation from Aligarh Muslim University (AMU), Aligarh(INDIA) in 2010
- B.Tech. in Chemical Engineering from Institute of Engineering & Technology, Mahatma Jyotiba Phule Rohilkhand University (MJPRU), Bareilly(INDIA) 2005

PROJECTS & DISSERTATIONS

M.Tech Dissertation title "Modeling of Steam Methane Reforming in Non-Isothermal Catalytic Membrane Reactor" using Programming of MATLAB & simulation through ASPEN PLUS 7.1

M.Tech Project "Modeling and Experimental Study of CO₂ Absorption in Hollow Fibre Membrane Contactor using MATLAB for programming & ASPEN PLUS for simulation.

PAPER PRESENTATIONS

Paper & Poster Presentation on CHEMCORN 2011, Bangalore on "Modeling of Steam Methane Reforming in Non-Isothermal Catalytic Membrane Reactor"

PERSONAL DETAILS

Date of Birth: 17th July
Address: Lucknow (INDIA)
Languages Known: English, Hindi and Punjabi

