Nallagopu Gopi Bhargav

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PROFILE STATEMENT

A passionate Chemical Engineer having experience in the area of Process Engineering and Continuous Improvement for 4.5 years and seeking an appropriate role which would utilize all my professional, educational and interpersonal skills.

KEY SKILLS & KNOWLEDGE AREAS

- Process Engineering
- Technology Transfer
- Pilot Plant Studies
- Investigations
- CIP
- Commissioning and Qualification
- Operational Excellence
- Scale-Up
- Project Management
- HAZOP study
- Filling Equipment
- Total Productive Maintenance
- Continuous Improvement
- Knowledge of DCS
- Process Optimization
- FMEA
- Manufacturing Operations
- Integrated manufacturing Excellence

CURRENT EXPERIENCE

Working in Pfizer Healthcare India Private limited, Vizag as a Process Engineer and Continuous Improvement Specialist since December 2017.

Job Description:

- Development of processes for product manufacturing and CIPs.
- Conduct equipment and process related technical investigations and makes recommendations on corrective actions.
- Involve in manufacturing and engineering related exceptions to evolve CAPAs and monitor the effectiveness of CAPAs
- Designs experimental plan, conduct studies at lab/pilot scale, and drafts technical reports summarizing laboratory results as part of investigations
- Preparation, review and approval of Functional Specifications (FS), Software Design Specifications (SDS), and Valve Charts for various processes such as product manufacturing and CIP.
- Seek training from technology vendors/SMEs and train the end users to improve current practices related to equipment operation and trouble shooting in upstream operations of injectable manufacturing.
- Bringing Continuous Improvement in manufacturing operations by deploying and running of systems Integrated manufacturing Excellence (IMEx) and Total productive maintenance (TPM)

Achievements

Commissioning & Qualification

- Commissioned and qualified the automated system for solution preparation activities of line T1.

Process Optimization:

- By optimizing the air blow of WFI Hot Flush, mitigated the risk of Bioburden failure because of stagnated water in solution preparation area
- By optimizing the DO measurement, mitigated the risk of measuring inaccurate value for the process
- Hold vessel recipe optimization: Small batch size products like heparin, verapamil and gentamicin can be manufactured without compromising quality of the product.

Process Development:

- Provided Process Engineering support to create recipe for new products and performed developmental runs in order to achieve right from the first time for the products Heparin, Verapamil, Furosemide, SWFI and BWFI.

Investigations:

- Investigations like 'WFI collection Tolerance during Metoclopramide Injection in Line T3', 'Flow rate not getting achieved during the CIP' and 'High conductivity triggered during CIP of mixing vessel 2 of line T1'.

Continuous Improvement:

- Deployment of 'Integrated Manufacturing Excellence (IMEx)' and 'Total Productive Maintenance (TPM)' in line T3.
- Improving the run time efficiency of filling line T3 by 15% and decreasing the changeover time by 60%.

PREVIOUS EXPERIENCE

Worked in Granules India Limited as an Executive in the department of Operational Excellence / Process Engineering from November 2016 to November 2017.

Job Description:

- Engineering and pilot plant studies during the molecule development at laboratory scale.
- Scale up of the process.
- Technology Transfer from laboratory scale to commercial scale.
- Monitoring the manufacturing activity during the process validation.
- Troubleshooting the criticalities that arise during the manufacturing of product.
- Performing HAZOP study.
- Carrying out root cause analysis for the deviations and failures that occur during manufacturing and countering them with necessary recommendations.
- Responsible for the installation of new equipment with proper design inputs.

Achievements:

- Involved in the process development of various molecules like Gliclazide, Teneligliptin Hydrobromide Hydrate, Enzalautimide, Itraconazole, D-Penicillamine and Rifaximin.
- Successfully executed and validated the above-mentioned products at commercial scale.
- Executed the above-mentioned products with recovery solvents wherever possible according to product specifications.

Worked in Hetero Labs Limited as a Junior Engineer in Technical Services Department between the period of June 2015 and July 2016.

Job Description:

- Technology transfer from lab scale to plant scale studies and successful validation of new products.
- Yield improvement.
- Material and energy balance for new products.
- Monitoring and reviewing the performance of the first five batches.
- Preparation of equipment list and cost estimation for modifications in the existing plant.
- Planning & Execution for the modifications in the plant.
- Minimize solvent losses, time cycles and energy losses in all blocks.
- Raise the job order for engineering department related equipment.

Achievements:

- Validation of APIs such as Levetiracetam, Irbesartan, Lopanvir, Daclatasvir Dihydrochloride, Zonisamide, Olmesartan Medoxomil at plant scale.
- Capacity enhancement of Levetiracetam from 30 tons to 40 tons & Irbesartan from 3 tons to 7 tons.
- Installation of falling film evaporators to decrease the distillation time in different products.
- Implementation of nitrogen sparging to minimize the solvent usage during isolations.
- Installation of sparkler filter to arrest the passage of Potassium Chloride Salt in Levetiracetam which is responsible for the failure of solubility test.
- Optimization of cooling loop for diesel circulation during Toluene & Phosphorous Oxychloride distillation in Zonisamide.
- Design of cooling tower to meet the circulation needs of room temperature water in D-block.
- Identifying the parameters which are affecting the yield and countering them and thus improving the yield in different products.
- Optimizing the distillation loops to minimize solvent loss in various products.

ACADEMIC DETAILS

- **Chemical Engineering** from **RVR&JC College of Engineering**, Guntur affiliated to **Acharya Nagarjuna University** in the year 2015 with a **CGPA 7.86**.
- **Intermediate** from **Vidya Vikas Junoir College**, Eluru under **Board of Intermediate Education**, Andhra Pradesh in the year 2011 with a **percentage 97.6**.
- **SSC** from **Santhi Vidyanikethan**, Raghavapuram under **Secondary Board of Education**, Andhra Pradesh in the year 2009 with a **percentage 88**.

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge.

Gopi Bhargav Nallagopu