

SHREYANSHI GUPTA

Chemical Engineer

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📍 Indore, Madhya Pradesh

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SUMMARY

Process engineer with demonstrated experience in cost improvement projects. Looking to apply my 3.8 years of experience with an organization where I can learn continuously and gain more knowledge towards the growth of the organization and my career.

ACHIEVEMENTS

- **Process safety: Skilled in doing PHA for the projects handled.**
- **As a part of sustainability initiative, reduced the water footprint from 6.5KL/MT to 4KL/MT.**
- **Project management: Used tools like bar-chart, PERT, CPM, WBD structure to deliver projects on time, within budget and as per required quality.**
- **Filed patent on "Isolation of lignin and cellulosic constituents from cow dung source and its mixture with some lignocellulosic materials".**
- **Got merit scholarship by Shail group of institutions.**
- **Awarded with gold medal and Certificate of Academic Excellence" by Governor for securing highest marks in the final examination of Engineering conducted by RGPV.**
- **Certificate for performing exceptionally well in the English for Employability programme, IIT Madras through QEEE by MHRD, Govt of India.**

SKILLS

Project management

Bar chart PERT CPM WBD structure

Process safety

PHA What if analysis

Problem solving techniques

Differential diagnosis RCFA using FMEA

Why tree analysis

Knowledge of lean techniques

Kaizen & 5S Knowledge of VA & NVA

Visual management

EXPERIENCE

Executive-Process Intensification

Eternis fine chemicals limited

📅 06/2019 - Ongoing 📍 Kurkumbh, Pune

KEY ACHIEVEMENTS

A. Capacity Improvement Projects:

1. Capacity enhancement of PEA product by 88% over baseline with minimum capex by reducing batch cycle time from 24.5 to 15 hrs.
2. Capacity improvement by 10% by de bottlenecking of continuous distillation column by reversing the existing columns without affecting the product quality.
3. Demonstrated capacity of Hamber at 310 TPM from baseline capacity of 287 TPM without capex by elimination of non-value adding activities and reducing BCT from 20.3 to 17.5 hrs at reaction stage and 9.5 to 8.25 hrs at batch distillation stage.
4. Increased coumarin capacity by 30% by BCT reduction of batch distillation from 28.5 to 26 hrs.

B. Yield Improvement Projects:

1. Cost benefit of 0.65 Cr by yield improvement of PEA product by 2.5%.
2. Cost benefit of 0.8 Cr by reducing raw material factor in Coumarin product from 947 to 933 kg/MT.

C. Commissioning of new products:

- Contributed to top line growth of company by commissioning new products-
1. Involved in the commissioning of German technology-based hydrogen generation plant.
 2. ACA commissioning and safe start-up: Involved in the completion of PT document, HAZOP, commissioning activities, PSSR and started the plant safely with close monitoring of the campaign.

D. Utility factor reduction and waste minimization:

1. Reduced the steam and water factor by Heat integration in continuous distillation column.
2. Reduced residue formation in Coumarin product from 5.3 to 4% by process optimization.

E. Safety standards and practices:

1. Followed PSM process including MOC, JSA, work permits, MIQA, PPE's, PHA, PSSR while implementing all CIP projects.
2. Worked as a member of Competency development and communication sub-committee.

STRENGTHS

Communication

Observation

Team development

Multi-tasking

SKILLS

•PFD and P&ID

•Action planning

•Idea generation

Knowledge of process simulation

•Basic knowledge of SAP

EDUCATION

M.Tech (Chemical Engineering)

Laxminarayan Institute of Technology, Nagpur

📅 2017 - 2019

GPA

9.16 / 10

B.E. (Chemical Engineering)

Indore Institute of Science & Technology, Indore

📅 2013 - 2017

GPA

9.18 / 10

LANGUAGES

Hindi



English

