Ritika Joshi

Chemical Engineer

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PERSONAL STATEMENT

Chemical engineer with 2 years of experience in production of agrochemical intermediates using batch reactors, distillation and filtration. Comfortable with DCS operation, batch records, mass balances and HAZOP follow-up, with a clear focus on yield, solvent recovery and safe operation.

WORK EXPERIENCE

Production Engineer, Chemical · Daman Ganga Fine Chemicals Pvt Ltd, Vapi GIDC, Gujarat — Jul 2024 – Present

- Run shift production for a block of 8 glass-lined and SS reactors producing 3 agrochemical intermediates, about 45 MT a month.
- Raised batch yield of a key intermediate from 86% to 91% by optimising addition rate and reaction temperature with R&D.
- Increased solvent recovery in the distillation column from 88% to 95%, saving about ₹38 lakh a year in fresh toluene.
- Close HAZOP action points for my block and maintain BMRs, logbooks and permit-to-work records for audits.

Graduate Engineer Trainee · Sarigam Speciality Polymers, Sarigam, Gujarat — Jul 2023 – Jun 2024

- Rotated through production, utilities and the effluent treatment plant during a 12-month training programme.
- Prepared daily mass balances and raw material consumption reports for 2 resin products.
- Helped reduce ETP COD load by 15% by identifying a washing step that could reuse mother liquor.

EDUCATION

B.Tech in Chemical Engineering · Sardar Patel College of Engineering and Technology, Anand, Gujarat — 2019 – 2023

Grade: 8.2 CGPA

SKILLS

Batch reactors · Distillation · Mass and energy balance · DCS operation · HAZOP · Solvent recovery · Aspen Plus basics · MS Excel

CORE SKILLS

- Shift operations
- Yield improvement
- Process safety
- GMP documentation
- Team coordination

CERTIFICATIONS

NPTEL: Chemical Process Safety · NPTEL — Oct 2022

LANGUAGES

English · Professional · Hindi · Native · Gujarati · Fluent

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