


Ayush S. Patel

Chemical Engineering

Reliance Industries Limited (RIL)

ayushpatel3018@gmail.com | +91 91065 68331 |  [Ayush Patel](#) |

Diploma

Male

Examination	University	Institute	Year	CGPA/%
Diploma	GTU(Chemical)	N.G. Patel Polytechnic	2020-23	8.18
SSC	GSEB	Reliance Foundation School	2020	70.66

PROJECTS

- **Manufacturing Process of KCN (Potassium Cyanide)** *(Jan'23-May'23)*
 - Developed comprehensive material balance models, ensuring accurate representation of process flows and mass distribution across alternative manufacturing routes.
 - Performed detailed techno-economic evaluations, integrating cost estimation with process efficiency to assess industrial feasibility and long-term viability.
 - Critically analyzed and selected the optimal process design, balancing technical performance, economic sustainability, and stringent safety considerations.

TECHNICAL SKILLS

- **Technical Skills:** Plant Operations, Material Balance, Heat & Mass Transfer, Process Troubleshooting, MS Excel.
- **Professional Skills:** HSE Practices, Equipment Handling, Cost Awareness, Preventive Maintenance, Team Collaboration
- **Soft Skills:** Problem-Solving, Adaptability, Communication, Time Management, Discipline.

WORK EXPERIENCE & INTERNSHIPS

- **Field Executive | Reliance Industries Limited (RIL)** *(Sept'23 - Present)*
 - Completed a 1-year journey as a Diploma Engineer Trainee (DET), building a strong foundation in polypropylene manufacturing by learning polymerization processes, plant operations, and downstream activities.
 - Transitioned into the role of Field Executive, taking ownership of day-to-day plant operations, field monitoring, and coordination with the control room to ensure smooth and safe production.
 - Gained hands-on exposure to troubleshooting and equipment checks, supporting maintenance teams and minimizing production interruptions.
 - Practiced a strong safety-first approach, actively adhering to HSE standards and fostering a disciplined work culture during shifts.
 - Collaborated closely with senior engineers and cross-functional teams, contributing to production targets while steadily growing into a more responsible role.

ACHIVEMENT

- Promoted from DET to Field Executive within a year for consistent performance.
- Assisted in shutdown and startup operations, ensuring smooth executive.
- Maintained a zero-incident safety record during assigned shifts.

AREA OF INTRESET

- Petrochemical Technology.
- Process Safety
- Polymer Processing

HOBBY

- Travel
- Gym Enthusiast
- Basketball