

RESUME

PERSONAL DETAILS

Name : Chirag Naginbhai Patel
Chemical Engineer (Shift In-Charge)
Date Of Birth : 02-08-2000
Current Address : Vadodara, Gujarat
Permanent Address : Surat, Gujarat
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Email Id : Patelpcchirag2076@gmail.com
Language Known : Gujarati, Hindi, English
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Work Experience

- **Shiva Performance Materials Pvt. Limited** - Karakhadi, vadodara (Apr 2024 to Present)
MPP Plant – Shift In-Charge (Speciality Chemical polymer/rubber based)
Key Responsibilities:
 - Handling **Batch Process**, for various Chlorides, Diamer and Reactions in various GLR, SSR, ANFD, RVD, Centrifuges, **Solvent Recovery process** and Vacuum Pump and carried out Pressure Reactions and High Vacuum High Temperature Distillation and reactions.
 - Daily production planning, Manpower Handling to achieve monthly and daily production and maintenance Activities involving new plant expansion following proper work permit system.
 - Maintaining and prepare BMR, SOP, Various Production Reports etc.
 - Handling of various Monomer , Solvent and chemicals.
 - Maintain Raw material, In Process and finished material data for easy workflow.
 - Commissioning and expansion of plant section and development and production of new batches with R&D and ADL dept.
- **Archean Chemical Industries Limited** - Hajjpir (Oct 2023 to Apr 2024)
Bromine - Engineer
Key Responsibilities:
 - Handling **Continuous Chlorination** In loop reactor, **Continuous column** for Adsorption/Stripping and **distillation (Glass and MSGL)**, reboiler for Bromine Recovery from Brine with and without enrichment system capacity of 200 TPD (MSGL) and 50 TPD (Glass).
 - Handling various equipment's like Vaporizer (Chlorine), Compressor, Various types of pumps, and VAM Chiller
 - Handling various processes (Enrichment, Recovery) via **Siemens PCS 7 Version DCS**.
 - Troubleshooting and Maintenance with proper permit system to ensure maximum safety.
 - Carry out smooth production with proper SOP and Maintaining BMR with maintaining norms.
 - Submit and maintain the proper production report to the plant manager.
- **Deedy Chemicals Pvt. Ltd.** (Oct 2021 – Oct 2023)
TCAC (Tri Chloro Acetyl Chloride), **CAC** (Chloro Acetyl Chloride)
OCT 21-Dec 22 – **Production Chemist/GAT**
OCT 22-Dec 23 – **Shift In charge**
Key Responsibilities:

- Responsible for chlorination by controlling flow rate of chlorine and adds specified amounts of catalytic agents and other chemicals to harden batch of **CAC & SMCA, TCAC** (Trichloro Acetic Acid), AA(Acetic acid), Chlorine as required & likewise
- Planned, organized and monitored resources to deliver efficient use of labor, equipment and materials.
- To perform Batch Chlorination **15 GLR (12.5 KL)**, Batch Distillation in **6 GLR (12.5KL)** and vacuum Distillation **2 GLR (6.3 KL)** maintain process parameters as per the defined SOP
- Venturi Scrubber Having **18 Venturis** with **4 Tower scrubber** of Capacity of scrubbing gas
- Troubleshooting in the section to the Deviation/ abnormality
- Commissioning and Expansion for **2760 MTA to 4800 MTA for CAC Plant.**

INTERSHIP (JULY '21)

1-month Online Internship by IIChe (OIP Batch 3) under subject of **Chemical Process Technology (CPT)**

EDUCATIONAL QUALIFICATION

Qualification	Board/University	Year	Percentage	CGPA
BACHELORS OF DEGREE - Chemical Engineering	R. N. G.Patel Institute of Technology, <i>Gujarat Technological University</i>	July 2021	81.5%	8.65
HSC	T. & T. V. Sarvajani High School, <i>GSHEB</i>	March 2017	64.20	--
SSC	I.P. Savani High School, <i>GSEB</i>	March 2015	86.33	--

PROJECT

- ❖ EXTRACTION OF ESSENTIAL OIL FROM ALOEVERTA BY USING DIFFERENT EXTRACTION PROCESS (**B.E. Final Year Project**)
- ❖ EXTRACTION OF PECTIN FROM LEMON PEELS
- ❖ APPLICATION OF TIO₂ AS PHOTOCATALYST IN THE DEGRADATION OF INDUSTRIAL WASTE WATER UNDER NATURAL SUNLIGHT AND ULTRAVIOLET REACTOR

SOFTWARE SKILLS

- 3D Modelling Software - ANSYS
- MS Office

COURSE & CERTIFICATIONS

3 Days STTP on Application & Hands on Distribution Control System (DCS) Feb '19
5 days STTP Program on ANSYS FEA Feb '21
PROCESS ENGINEERING & DESIGN May '21

HOBBY AND INTERESTS

Reading Books, Story and Poem Writing, Video Editing, Graphic & Web Designing, Watching Movies

DECLARATION

I hereby declare that whatever details I have given is true to my Knowledge and acknowledge, that I will be the one to be responsible if found guilty.

Chirag N Patel