

SANTOSH DNYANESHWAR HADE

PROCESS ENGINEER | Deepak Novochem Technology Ltd.

CONTACT

9765906106
Pune, Maharashtra, India
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EDUCATION

B. Tech | Chemical Engineering |
University institute of chemical
Technology, Jalgaon, M.H., IN
CGPA: 7.53 2015-2019

Industrial safety & Environment Management System| M.J. Collage Jalgaon| KBCNMU, Jalgaon.

**H.S.C. | Shiv Chhatrapati collage |
Aurangabad| Maharashtra Secondary
& Higher Secondary Educational
Board. Percentage: 69.69% 2015**

**S.S.C. | Samrat Ashok Vidhyalaya,
Aurangabad| Maharashtra Secondary
& Higher Secondary Educational
Board
Percentage: 83.60.% 2013**

CORE SKILLS

- Unit Operations
- Process Design
- Process control & Safety
- Teamwork and Team management
- Korf Hydraulic
- HTRI
- Aspen
- DCS & PLC Logic Testing.

PERSONAL DETAILS

- Permanent address:

PROFESSIONAL SUMMARY

Experienced Chemical Engineer with 6 years in process engineering, plant commissioning, and safety management. Skilled in engineering documentation, process optimization, and troubleshooting. Expertise in PFDs, P&IDs, equipment sizing, and hydraulic calculations with knowledge of API, ASME, and TEMA standards. Proven ability to handle emergencies, startups, and shutdowns, ensuring efficient and safe operations.

PROFESSIONAL EXPERIENCE

Executive – Process

Deepak Novochem Technology. Ltd. | Pune, Maharashtra, IN

June 2024 – Present

- Lead Basic Engineering Package (BEP) development, including Process Flow Diagrams (PFDs), Equipment Design, Process Data Sheets (PDS), Block Flow Diagrams (BFDs), and Piping & Instrumentation Diagrams (P&IDs).
- Prepare Technical Bid Analysis (TBA) for equipment procurement and develop comprehensive engineering packages & Project CAPEX.
- Review of Vendors GA drawings of Reactors, Tanks, Heat Exchangers, vessels and other process equipment's.
- Perform hydraulic calculations, material and energy balance evaluations to optimize process efficiency.
- Contribute to research and development for new specialty Chemical; technology to be filed by DNTL upon project completion.
- Perform pre-Fat/FAT/SAT
- Experience in Analytical instruments which is used for analysis and measurement of the process parameters.(flow meter, gas analyser,LT,TT,PT)

Technical Service Engineer –

GFCL EV Product Ltd (GFL) | Dahej Bharuch, Gujarat, IN

January 2024 – May 2024

- To provide the technical support to Performance Chemicals production for EV sector & subsequently troubleshooting of plant issues
- Co-ordinate between R&D, EPC consultant and production team during project implementation and establish the process as per design

Process Engineer – Engineering & Technology

NOCIL Ltd (National Organic Chemical Industries Ltd.) | Dahej, Gujarat, IN

September 2019 – December 2023(MT to Jr. Executive)

- Led plant optimization projects, including pump modifications, utility consumption analysis, power-saving initiatives, and Plant modifications to enhance productivity.
- Developed and revised P&IDs, PFDs, PDS, IPDS, and performed material & energy balance calculations.
- Conducted hydraulic calculations and equipment sizing for pumps, and pipelines.
- Provided support in pre-commissioning and commissioning of new projects, including full-scale DCS logic testing during breakdowns and shutdowns.
- Successfully commissioned a fully DCS-operated plant handling high-pressure (35 kg/cm²) autoclaves and critical reactants (H₂).
- Successfully commissioned high pressure Hydrogen storage bullet.(220kg/cm²)under PESO guideline

At Naregaon, Tal/Dist.
Chhat.Sambhajinagar,
Maharashtra-431001, India

• **DOB:**
04 Oct 1996

• **Passport ID:**
T8018408

• **Interest & hobbies:**
Writing poems& Articles, Playing
Cricket etc.

• **Languages:**
English, Hindi, Marathi & Gujarati.

featuring liquid extraction columns, vacuum /Atmospheric distillation units, dryers, rotary drum filters, reactors, and vibrating screens

KEY PROJECTS

- Developed basic and detailed engineering packages for MBP plants, including Autoclaves, rectifiers, batch /continuous reactors, storage tanks, pumps, DM plant, ETP, air compressors, filters, and other key equipment.
- Detail engineering work with EPC consultant for green field project, involves determining the appropriate plant size based on system pressure, flow rates, and safety requirements. This includes performing calculations for equipment capacity, selecting materials, and ensuring compliance with industry standards (e.g., ASME, API). The process also includes preparing technical documentation such as datasheets and ensuring proper integration with the overall system design.
- Successfully pre-commissioned and commissioned a fully DCS-operated plant 2160 MT/month capacity, including a 35 kg/cm² autoclave handling (H₂ gas), liquid extraction column, vacuum distillation column, dryer, rotary drum filter, reactor, and vibro-Shifter

CERTIFICATION

- Certified course on Industrial Safety & Environment Management system.