


ABOUT ME

Would like to work enthusiastically and smartly for the organization with committed, disciplined behavior and deliver the excellence for organization and self-development.

ADDRESS AND CONTACT

 Pune, Maharashtra, India

 +91 7517709776

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LEARNING PRACTICING

- Design Calculations on MS Excel

SOFTWARE SKILLS

- MS (Word, Excel, Power Point)
- ASPEN PLUS
- DWSIM
- CHEMCAD
- AutoCAD

TECHNICAL SKILLS

- Line Sizing
- Material balance
- Energy balance
- line sizing (Vapour Phase, Liquid Phase)
- Pump hydraulics Calculations
- PFD & PID
- PSV/Control Valve sizing Calculations
- Heat Exchangers Calculations (Shell & Tube, Plate Type, Spiral Type)
- Distillation column design
- Absorption Column Design
- Adsorption Column Design
- Storage tank design

SKILLS

- Working independently and in team
- Creativity
- Good Communication

BAJIRAO NAVNATH SANGALE

Chemical Process Design Engineer (2.8 Year Experience)

WORK EXPERIENCE

Topse Process Solution Pvt. Ltd. Pune

Tenure- 16-Aug-2023 to Till Date

Designation- Chemical Process Design Engineer

Job Role-

- Preparation of Design Basis Document for Enquiry stage Project.
- Preparation Of Equipment List.
- Preparation of Material Balance & Energy Balance sheet.
- Utility Calculations Consumer List Preparation
- Electrical Load list Preparation
- Pump hydraulics Calculations and Preparation of PDS of pump
- PFD & PID Preparations.
- PSV/Control Valve sizing By Using Excel Sheet & Preparation of PDS
- Heat Exchangers Sizing (Shell & Tube, Plate Type, Spiral Type) on Aspen Plus EDR Software and Preparation of PDS.
- Distillation column design By Using Aspen Plus Software & PDS Preparation.
- Equipment Sizing on Excel Sheet & PDS Preparation
- Absorption/Adsorption column Sizing on Aspen Plus Software & PDS Preparation
- Preparation of Control Philosophy, Safety interlock Sheet, DQ, IQ, OQ D & FAT Documents.
- Preparation of Manual Valves Specification.
- Co-ordination with Vendors Regarding offer for Purchase.

MAJOR PROJECTS

Chintamani alkali

- 30 KLPD Design of Ethanol Dehydration Section in Distillery. Separation of Moisture from Ethanol by using TSA (Temperature Adsorption Method)

Supriya Life Science Lote.

- 120 KLPD Design of Continuous Solvent Recovery Plant (Distillation Plant) Separation of Ethyl Acetate and water.

Sagitta Pvt. Ltd. Boiser Maharashtra.

- 500 Kg/hr Design of NO_x (No, No₂, No₃ Gases) Recovery System (Absorption Plant) & Commissioning of Whole plant.

Lyfius pharma private limited Vishakhapatnam.

- 300 KLPD Design of Continuous Solvent Recovery Plant (Distillation Plant) Separation of Butanol and water.

Lee Pharma Limited Hyderabad.

- 240 KLPD Desing of Batch Solvent Recovery Plant (Distillation Plant) Separation of Methanol water.

Deccan Fine Chemical Tuni Hyderabad.

- Design of Heating Cooling SKID for 5KL ReactorIts temperature control system for Reactor.

Krishna Antioxidants Pvt. Ltd. Chiplun Maharashtra.

- 5000 Kg/hr Design of Solvent Dehydration system by TSA Method.

EDUCATION

Year-2021 | Kolhapur, India

B. Tech Chemical Engineering | Tatyasaheb Kore Institute of Engineering & Technology Kolhapur, Shiwaji University | Grade – First Class

Year-2017 | Jalna, India

Diploma In Chemical Engineering | Government Polytechnic Jalna, MSBTE University | Grade – First Class

Year-2014 | Beed, India

Secondary School Certificate (SSC) | Grade – First Class

INTERNSHIP AND EXPERIENCE

- Worked as a junior Eng. At Zuari agro chemical LTD Goa in Ammonia Plant from August 6, 2018, to 9 April 2019. At the time of resignation, I was designated as company `trainee`. Having Knowledge of Compressor, Gas Separator Like Knockout Drum. Then Absorptions Column, Reformer, Shift Converter, Pressure Swing Adsorption Unit (PSA), Temp Swing Adsorption (TSA Unit for air drying)
- Online Internship on Aspen Plus Software 25/07/2020 to 12/08/2020, learn about Simulation of Heat Exchangers, Distillation Column, Pump, Compressor, and Flow sheet Modeling.

ACADEMIC PROJECTS

- **Mega Project: simulation of nitrogen generation plant by pressure swing adsorption method**
To design and simulation of a plant for nitrogen production with cheap economy for business and considering various parameters to optimize design. Role: Process Design Engineer, Group Leader.
- **Mini Project: manufacturing of wine from tomato**
Production of wine from tomato for Ethanol beverage using fermentation (yeast) process.

PERSONAL INFORMATION

- Date of Birth: 19/03/1998
- Father's Name: Navnath bhanudash sangale (farmer)
- Mother's Name: Savitra Navnath sangale (housewife)
- Hobbies: Book reading, playing cricket, Management, talking with people,
- Phone no.: +91-7517709776
- E-mail ID: bajiraosangal431@gmail.com
- Current Location: Balajinagar Pune
- Native Place: Shirur (Ghat) Dist-Beed