

# ROSHAN NERKAR – PROCESS ENGINEER

L-304, Celestial City-Phase-1,  
Ravet, Pune  
Mobile: 09970859684  
Alt. Contact No:- +917767808862  
Email: - [roshannerkar@gmail.com](mailto:roshannerkar@gmail.com)  
[www.linkedin.com/in/roshan-nerkar-7bb3ab12](http://www.linkedin.com/in/roshan-nerkar-7bb3ab12)  
Skype ID: roshan.nerkar

---

## SUMMARY:

### Key Skills (Basic and Detailed Engineering):

- Total **10.4 Years** of experience in Process Engineering Design.
- Process Simulation, generating HMB and developing PFD
- Preparation of Process Flow Diagram (PFD) & Process and Instrumentation Diagram (P&ID).
- Experience in design and detail engineering of Skid based units for Oil and gas.
- API design codes (API 610, 675, 520, 521) and SHELL DEPS
- Control Valve sizing, Relief load calculation for Pressure Safety Valves ( API 520 & 521)
- Preparation of Process Data Sheets for various Equipments.
- Preparation of Purchase requisitions for bought out items and Vendor data evaluation
- Simulation Software –ASPEN HYSYS, CHEMCAD, HTRI, PRO-II, KG Tower

## WORK EXPERIENCE:

**1. Name of the Organisation : Praj Industries Ltd. Pune**  
**Working since : From Dec 2014-Till date**  
**Designation : Associate Manager-Process Engineering**

### Job Responsibilities:

- Design and detail engineering of Skid Mounted Process units for Oil and gas, Refinery process, chemical units.
- Preparation of Design Basis and Process Description.
- Preparation of process flow diagrams (PFD's), Heat and Material Balance.
- Basic engineering calculations like Material & Energy Balance, preparation of PFD, P&IDs, and selection of sizing of critical process equipment's like column, Heat Ex-changers, Vessels etc.
- Hands-on experience with Process simulators like Aspen HYSYS, Pro-II, CHEMCAD, HTRI.
- Familiar with international codes and standards like API, ASME, SHELL DEP, TEMA.
- Pump hydraulics calculations, pressure drop calculation.
- PSV sizing, Line sizing, Hydraulics calculations for pumps and Compressors, etc.
- Two phase and three phase separator sizing.
- Preparation of Equipment list & Line list.
- Interdepartmental co-ordination with other departments.
- Preparation of technical requisitions and requirements for bought outs items such as pumps, filters, vessel/column internals and technical evaluation of vendor offer.

**2. Name of the Organisation : Koch-Glitsch Mumbai, India**  
**Working Duration : From July 2010-Dec 2014**  
**Designation : Process Engineer**

**Job Responsibilities:**

- Experience in working of the refinery units such as Crude Distillation Unit, Vacuum Distillation Unit, FCC, Cocker and other downstream units of refinery.
- Process Simulations by using Pro II Simulation tool. Development of Basic Engineering Package.
- Distillation column Sizing and Hydraulic Designing of distillation column internals using proprietary software such as KG Design.
- Design of mass transfer equipments such as Trays, Packing, column Internals, etc.
- Revamping of the existing distillation columns for operating at high capacity for refinery applications such as Crude Distillation Column and Vacuum Distillation Column for capacity enhancement.
- Knowledge of process calculations such as sizing of equipment, lines and pumps, hydraulic calculation, etc.
- Ensure all process aspects meet client requirements and International Standards.
- Transfer design to other disciplines and lead inter-disciplinary discussions.
- Present and discuss design with client and carry out bid evaluations.
- Providing technical support to other Koch-Glitsch affiliates such as Japan, Korea, Singapore, USA and UK, etc. for process engineering solutions.

**3. Name of the Organisation : Mysore Petrochemical Ltd. Mumbai**  
**Working Duration : From July 2007- June 2010**  
**Designation : Process Engineer.**

**Job Responsibility:**

- Worked at site office in design and development department focusing on modification projects for plant performance improvement within safety limit.
- Mass and Heat balances calculations
- Line sizing for modification work
- Plant Performance Monitoring
- Technical support in trouble shutting
- Support for start-up, shut-down, maintenance activities

**EDUCATION:**

**Masters of Business Administration (MBA) in Operations from Savitribai Phule University of Pune**

- MBA in **Operation Management** in 2015-2017 with CGPA of 7.8 (67.5%)

**B. Tech in Chemical Engineering from University Department of Chemical Technology, Jalgaon**

- B.TECH in **Chemical Engineering** with Distinction 76.00% in 2007

## COMPUTER KNOWLEDGE:

- Microsoft Word, Excel Spreadsheets with Visual Basic Editor, Microsoft PowerPoint
- Operating Systems - Windows, MS-DOS & C-programming
- Knowledge to understand Graphic Trends, tuning pages and Overview pages in the 'Yokogawa Centum CS1000' DCS operating system.

## IN-PLANT TRAINING:

- In-Plant Training completed in "Gharda Chemicals Ltd." (GCL) at Lote (Persuram), Dist-Ratnagiri in following Plants.
  1. Research and Development Department (2005-2006)
  2. Formulation And Auxiliary unit (2004-2005)

## ACHIEVEMENTS:

- Awarded as a 'Best Employee' in Koch chemical technology group India Pvt. ltd. For best performance in the Year 2012 and 2013.

## PERSONAL DETAIL:

Father's Name : Mr. P. S. Nerkar  
Date of Birth : 24<sup>th</sup> January 1984  
Marital Status : Married  
Age : 33 Years  
Gender : Male  
Passport No. : H0358538, Valid Till 18/08/2018  
Notice Period : 3 Months (Negotiable)  
Permanent Address : At-Post Mohpa, Tal-Kalmeshwar,  
Dist- Nagpur, Maharashtra- 441502  
References : Available on request

### Declaration:

I hereby declare that all the information given in the application is true to the best of my knowledge and belief.

Thanking You.

**Roshan Nerkar**

Place: Pune

Date: