**SONIA KOTNALA**

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**DOB:** 08th Sep-1986

**Professional Abridgement**

An Accomplished Professional in Chemical Engineering with blend of more than 8 years of domestic & overseas experience with outstanding credentials and a proven record of results in the field petrochemical/ Oil & gas industry.

Experience in **Plant commissioning**, **Simulation Technical Services & Process Design** with global exposure of handling the projects majorly for the International Clients.

Team Player & Resourceful Decision Maker, Possess excellent Communication, analytical, troubleshooting Skills and inured to work with cross cultural teams & environment. Constantly progressed in an organization that demands a broad business perspective to achieve accelerated growth in sales & profit.

**Professional Experience**

**Total Experience:** 8.5 Years **Current Location:** Mumbai

**Worked as Sr. Process Engg. - Kongsberg Oil & Gas Technology. (Jan’12 – Feb’16)**

**Key Responsibilities:**

* Steady state tuning & Dynamic testing of process (including validate physical properties, Heaters,Heat exchangers, Distillation columns, pump etc.)
* To develop simulation models for Up-stream process - Oil & Gas operations. For instance, Natural Gas Compression, Gas Dehydration, Gas Export System etc.
* Engineering Studies & design optimization.
* To study of process upsets on the plant performance using dynamic simulation.
* Control logic building and testing for various process control loop.
* Safety System database translation and integration with the model.
* Active team member in preparation of Technical Proposals, Thermo tables, Symbols, Sequences & panel for OTS.
* Responsible for Support function in software testing & conducting class room training on K-Spice Solution to the clients & trainees.

**Major Projects Delivered: Clients**

* PFLNG OTS Project Delivery : Petronas
* Gjøa K-Spice Upgrade : Gjøa
* Superior Arctic Containment OTS Update : Superior
* Shell Offshore Generic Subsea Model : Shell
* Mariner LCS : Statoil
* Anadarko Lucius ProdMS RTFA Simulator : Anadarko Lucius
* JSM OTS : Chevron
* Laggan Tormore : Total E&P.
* Blindfaith : Chevron USA
* Stampede : Hess Corporation Heimdal OTS : Statoil
* Gudrun Dynamic Model Extension : Aibel, Oslo

**Manager (CTS-ParaXylene) - Reliance Industries Ltd, Patalganga (Mumbai) (Jul’08 – Dec’ 11)**

**Key Responsibilities:**

* Daily performance monitoring of plant & catalysts, process optimization & trouble shooting to achieve the set manufacturing targets.
* Designing of Heat exchanger,Heaters, Distillation column & equipments to enhance overall plant capacities.
* Analysis of PIOs, CAPEX projects and support for its implementation.
* Spare equipment design study to predict its usability throughout RIL sites.
* Vendor evaluation, rating & development.
* Commissioning of new projects, cost analysis, hazardous area classification and development of process technology documents and review of major improvement plans in Para Xylene and Pentane plant.
* P&ID & PFDs review & up-dation, participation in PSM activities, HAZOP, SIL & RCA.
* Providing Technical Support to Plant during shutdown & startup.

**Major Projects Handled:**

* Commissioning of Pentane Plant.
* Debottlenecking of Para-Xylene Plant.
* Pinch Study of Site
* BMS of Para-Xylene Plant Heaters
* Heat & Material Balance of PX & Pentane Plant.
* Isomar & Tatoray Unit catalyst replacement.
* Platformer Heater tube replacement.
* Parex Chamber Sieve Replacement.
* Toluene Recovery from Light Naphtha.

**Assistant Chemical Engineer- Alchem International Ltd (Aug’07 – Jun’08)**

**Responsibilities:**

* Trouble shooting of abnormalities in Plant.
* Review and preparations of SOPs, STM, Protocols
* Active member 0f 10AB & DMC
* Project on Solvent Recovery & Optimization

**Training**

**Certified Courses**: Aspen Plus-Process Modelling, Aspen Plus-Distillation, HTRI, ICC Material & Energy balance

**Professional Trainings:** PSM, APC, Six Sigma tools, PINCH Technology, HAZOP, SIL, RCA.

**Software Competencies:** K-SPICE, ASPEN, HTRI, PRO-II, Hysys, IP21, Minitab.

**Industrial Trainings and Projects**

**Summer Trainings:**

* Para Xylene Plant – IOCL, Panipat. (2 months).
* Urea Manufacturing Plant - National Fertilisers Ltd, Panipat ( 2 months)

**Projects:**

* Designing of Air Heat Exchanger - Dr M. M. Balli, IIT Roorkee.
* Energy & Mass Balance for Para Xylene manufacturing - Dr Vohra, Punjab University.

**Academic Credentials**

**Class** **Year**

B-Tech, Chemical Engineering 2007

XII 2003

X 2001

**Key Skills**

* Possess excellent interpersonal, negotiation and team building skills.
* PSM, APC, Six Sigma tools, ICC Material & Energy balance, PINCH Technology
* Well Versed with process improvement techniques like **six sigma, 5S, PSM** etc.
* Comprehension & Coherence of Organizational, Departmental and Personal Goals.