

ASHISH SONI

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OBJECTIVE: Young, hardworking, result orientated individual seeking to obtain a stable position in an organization which will utilize and expand my skills, expertise, and experiences.

EXPERIENCE SUMMARY:

- Over 18+ years of Chemical Engineering Experience in refineries with specialization in Process Unit Monitoring, Refinery Margin Improvement, Basic Process Design, Unit operations, Commissioning, Energy Efficiency Improvement & Loss control, and Hydro-processing technologies & catalysts.
- Extensive Understanding of key refinery design, operational and control concepts e.g. distillation columns, heat exchangers, pumps and compressors, feed filters, process monitoring concepts such as combustion controls, logic systems, PLC systems, Real Time database management systems, data linking tools and process Historians of Honeywell and PI Technologies, etc.
- Experience in preparing and reviewing Process Flow Diagrams (PFDs), Piping and Instrument Diagrams (P&IDs), vendor proposals for brown/ green field projects.
- Extensive Knowledge in carrying out pre-commissioning and commissioning activities for refinery units like Isomerization unit, Alkylation unit, Sulphuric Acid Regeneration unit and Hydro-treating units (kerosene, Naphtha & Diesel)
- Experience in Catalyst unloading and loading activities of reactors in Hydrogen generation Unit, Hydro-treater Unit and Isomerization unit using sock and dense loading systems.
- Strong idea of Refinery/ petrochemical unit operations in Crude Distillation Unit, Linear Alkyl Benzene Unit, Hydrogen Generation Unit, Hydro-treating Unit, Alkylation Unit, Naphtha & C4 Isomerization Unit, Sulphuric Acid Regeneration Unit and Sulphur Recovery Unit.
- Familiarity with all process design safety requirements (HSEIA screenings, HAZOP, HAZID, OHID, ENVID, SIL What If, RCA and QRA studies).
- Expertise in Implementation of process modifications through Management of change procedure (MOC) and HAZOP studies for improving refinery yield and energy performance or profitability.
- Extensive Knowledge in utilizing process design simulators such as HYSYS/ UNISIM/ PETROSIM, etc. for evaluating process modification schemes.
- Able to carry out total refinery overall energy balance, unit wise energy balance and steam power balance for optimization of operational philosophy from an overall perspective.
- Proficiency in procuring various catalysts of Hydrogen generation Unit, Hydro-treater Unit (DHDT & NHDT) and Isomerization unit on competitive bid system.
- Development of investment proposals for major projects and/or configuration changes with detailed economic evaluation and IRR calculations.
- Strong interpersonal skills with proactive problem-solving attitude and a penchant to consider overall problem, identify opportunities and implement changes.
- Self-starter, independent thinker, driven by quality, cost and speed of execution with capability to work in a cross-functional engineering team & motivate team members.

EXPERIENCES:

❖ **BOROUGE:** (July 2022-Present) **Profile: Energy Management and Optimization**

- Working as Senior Energy Management and optimization specialist in Borouge.
- Handling the Steam APC commissioning project for Ethane Crackers as a project focal point.
- Identified and completed process feasibility of following energy improvement projects.
 - Electrification of condensing and induction turbines,
 - Operating single dump condenser across two cracker complexes.
 - Cracker furnace troubleshooting and rectification.
- Leading the group for commissioning and upgradation of Energy management information system to version 1.5.
- Completed Deaerator balancing to check and compare design vs actual consumption.

❖ **ADNOC REFINING:** (March 2015-June 2022)

Profile: Project Engineering Services

- Worked as Senior/Lead Process Engineer in Central Engineering department of ADNOC refining. Lead engineering group for projects (under 50 Million USD) from ADNOC refining, ADNOC Fertilizer and Borouge, which includes (but not limited to) process improvement studies, troubleshooting of chronic process problems, implementation of new startups, as PMC for complex refinery installations, etc.
- Successfully lead Engineering team as Lead Process Engineer for FEED and EPC of desalter and associated units in ADNOC Refining.
- Successfully completed 60+ critical RFCC process modifications such as feasibility, feed and EPC projects including but not limited to new reboiler designing and installation for debutanizer column; slurry system review and redesigning, slurry exchanger/ slurry pumps and header redesigning; revalidating the debutanizer bottom gasoline circuit for capacity increase with capacity checks for exchanger
- Successfully completed feed study and execution of BMS implementation for 16+heaters of Ruwais Refinery east as lead Process engineer.
- Lead the (engineering, company, and consultant) group for preparing Unique BMS specific to cater Hydrogen Generation Unit of RR-3 and was well accepted by OEM.
- Handled the Compressor upgradation and replacement of Recycle gas compressors for Hydrocracker and Hydro-skimmer complex of Ruwais refinery east.

- Completed the feed study for provision of fixed firewater protection system for 27+ floating rook tanks of Ruwais refinery east.
- Handled the compressor replacement and migration of DCs control to ESD control for Hydrocracker compressors.
- Handled the design review and upgradation of Product blending system of Ruwais refinery.
- Completed the design improvement feasibility and detail engineering of PE units Flare Knock out drum for solid particles removal. Now leading the PC phase of the project.
- Completed the ETP upgradation feed project of RR-III.
- Successfully completed inlet-header modification for uniform flow distribution in condensate heaters of RR-III.
- Successfully implemented Inter-refinery pipelines project between RR-1 and RR-3, thereby realizing profit of more than 40m AED/year.
- Handling the ETP upgradation feed project of BOROUGE 1, 2 and 3 as lead engineer.
- Leading the team for relocating and commissioning of Desalter from ADRD to Condensate Unit in RR-3.
- Leading the Engineering team for major modification projects for RFCC block in RR-1.

Profile: Process Engineering-Monitoring

- Worked as Process Engineer in Ruwais Refinery West. Looked after Process monitoring of Alkylation Unit, Butane Isomerization Unit & Sulphuric Acid Regeneration (SAR) Unit.
- Handled the commissioning of the above-mentioned units as Process Engineer for pre-commissioning, commissioning activities, stabilization, and process optimization of the units.
- Prepared the hydrocarbon removal and preservation procedures of above unit for long duration shutdown.

❖ INDIAN OIL CORPORATION LTD: (September 2006 - February 2015)

❖ GUWAHATI REFINERY: (2012-2015)

Profile: Process Engineering-Monitoring

- Worked as a Deputy Manager PROCESS in Guwahati refinery. Looked after process monitoring of HGU (Hydrogen Generation Unit), HDT (Diesel/ATF Hydrotreater Unit) and MSQU (MS Quality Up gradation Unit) units.
- Successfully completed investigation and completion of bridge-lock exchanger leak using radioactive traces analysis.
- Completed troubleshooting and reported the Reactor poisoning and deactivation observed in Isom reactors.

- Handled purchase and replacement of Mild HC catalyst of HDT unit, Dryer catalyst of Isomerization Unit, LT shift reactor and PSA catalyst of Hydrogen Unit.

Profile: Production/ Shutdown

- **Supervised** the TA plan and execution of IA/ SRU/ Flare and INDMAX (RFCC) units.

❖ GUJARAT REFINERY: (2006-2012)

- **Worked as a Senior Commissioning Engineer.** Lead the production core group in pre-commissioning and commissioning activities of UOP licensed **Light Naphtha splitting, Hydro treating & Isomerization Unit.**
- **Worked as Commissioning Engineer** for pre-commissioning and commissioning activities of AXENS licensed **Diesel Hydro treating Unit.**
- Worked as a Production Engineer in **Linear Alkyl Benzene** unit as Panel Officer/ Shift-In-charge.

❖ ATUL LTD. VALSAD: (JULY 2005-SEPTEMBER 2006)

Profile: Product/Business Development

- Worked as Assistant Manager (Tech. & Projects) for process improvements and capacity expansions of new units.
- Introduced and scaled up production of Resorcinol-formaldehyde resin from LAB to Plant scale.
- Started as a production engineer in PHBA (PARA-HYDROXY BENZOIC ACID) unit & did commissioning of quadric-effect evaporator for concentrating salty brine solution.

ACADEMICS: PASSING YEAR: 2005 with 1st Division

EXAMINATION	COLLEGE	UNIVERSITY	PERCENTAGE
B. TECH, Chemical Engineering	L I T, Nagpur	Nagpur University	73.17

PERSONAL DATA:

Father's name : Shailendra Soni
 Birth date : 12th January 1983
 Marital Status : Married, blessed with two kids
 Languages known : English, Hindi, Marathi & Gujarati
 Email : ashishkumarsony@gmail.com.
 Hobbies : Badminton, swimming, Cricket, movies.
 Permanent address : C/O Shailendra Soni, Hansapuri, Old Bhandara road, Nagpur: 440018