POOJA PATEL

Process Engineer

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SUMMARY

A professional in Chemical Engineering specializing in Process Engineering having an overall 4.5 years of experience in Technical Services and project planning. Worked as a Technology Engineer in one of the world's largest CB&I licensed Petcoke Gasification plant. Provided technical support to Gasification team to ensure integrity of design and commissioning, operating and emergency procedures are safe and consistent with plant's design. Gained precommissioning and commissioning experience of Gasification plant. & In Project Planning department at Reliance Composite Division, Vadodara

INDUSTRIAL EXPERIENCE

Reliance Industries Limited, Vadodara

June 2018 - November 2018

- Worked for Reliance Composites Solutions site start-up
- Coordinating with all the stake-owners for quick closers of open issues & ensuring deliverables are available within or before time with proper planning & careful execution strategies

Reliance Industries Limited, Jamnagar

July 2014 - May 2018

- Developed a Profit Improvement Opportunity worth **USD 0.60 million** using Heat loss model and validated in-house
- Finalized feed flux matrix for RIL Gasification with Microbeam Technologies
- Studied the Economic feasibility of Surface modified filters for replacing Char Filter elements
- Optimized gasifier temperature by analyzing Licensor operating data, thus doubling refractory life
- Reduced the start-up time of gasifier by 15 hours using dynamic simulation thus increasing the availability of gasifiers
- Study the feasibility of early start-up of gasifier with available downstream units
- Modeled section of gasification plant PFD in Aspen and validated result with HMB
- Worked on UNISIM M3 model of gasification complex. Analyzed various scenarios to study the impact of gasifier trip on the entire complex
- Modeled heat exchanger in HTRI, performed vibration analysis and accordingly suggested modifications in the heat exchangers to avoid chances of failure in heat exchanger due to impingement rods
- · Prepare and publish daily performance monitoring reports for the unit and highlighting any deviations from optimized operation
- Involved in Performance Guarantee Test Run for pumps and Compressors

Indian Farmers Fertilizer Co-operative Limited, Kalol

August- September 2013

- To study the feasibility of replacing cryogenic distillation with PSA in ammonia purge gas recovery plant
- Carried out mass and energy balance of the plant
- Designed an absorber tower for PSA
- Estimated capex for the addition of PSA unit to the plant
- The project had a pay back of **10 months**

TECHNICAL SKILLS

Software

UniSim, Aspen Plus, HTRI, Phast, Microsoft Office

ACADEMIC PROFILE

Bachelor's of Engineer in Chemical

July 2010 - June 2014

L.D. College of Engineering, Ahemedabad, India

SCHOLASTIC ACHIVEMENTS

- Successfully operationalized world's largest gasification plant worth \$6bn. My dedication and efforts were highly
 appreciated by RIL higher management.
- Set up plant database for trend analysis through IP21 software by identifying all critical parameters required for optimal operation of the plant.

EXTRA-CURRICULAR ACHIEVEMENTS

- Donated blood as part of voluntary blood donation camp organized at LDCE
- Secured first position in CHEM-QUIZ event in TECHNIX held at LDCE
- Member of culture committee of LDCE
- 1st runners-up at CHEMISOL event in TECHNIX, held at LDCE
- Member of Cultural committee of RIL and organized various events in RIL township

VOLUNTEER EXPERIENCE

Mentor

VSK school

- Mobilized new joiners at RIL for voluntary participation in social activities
- Organized sale of 2nd hand items for poor children of nearby villages
- Delivered learning sessions on English, Hygiene and moral short stories to children of nearby villages

Sponsorship team member

Vision Technico.

- Vision Technico is 1st Technical magazine of L.D. collage of engineering
- Interacted with numerous stakeholders and generated funds for publishing our college first Technical Magazine Was also involved in publicizing and creating awareness regarding the need and benefits of this initiative

Committee Member

Invincible NGO

- Contributed at channelizing positive energy of youth by installing the spirit of adventurism and team work in them during the various activities
- Motivated female participation in one of the trekking camp to polo forest by exhibiting leadership qualities

Mentor

Reliance Industries Limited

Mentored GETs and developed them for roles in Technology. Developed their technical competency in a structured
 Manner and prepared them for future to take on higher technical roles

Volunteer

L.D. College of Engineering

Volunteer in Orientation Program for chemical engineering department