



YAHYA BILAL RANA

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PROFESSIONAL SUMMARY:

Highly resourceful Process Engineer with 6 years of experience in petroleum refinery. Experience include crude distillation unit, propane recovery unit, UOP Merox, boilers, cooling towers, RO plants, EDI, ETP and nitrogen plant. Experienced in operations, commissioning and master startup of plants. Very good user of Aspen Hysys, Korf and HAZOP manager. Good knowledge of refinery process and very good understanding of PFD's and P&ID's. Having Bachelor's degrees in chemical and process engineering and Master's degree in engineering management (Specialization in environment) from NED University of engineering & technology. Good planning, coordination and excellent team player.

SPECIAL ASSIGNMENTS ACCOMPLISHED:

- Simulation of Fuel refinery (CDU/PRU/NHT/Platformer/Stabilizer/Naphtha Splitter/LPG purifier/ Furnaces/Preflash tower)
 - Performed HAZOP study of existing utilities
 - Fuel oil additive test run at boiler
 - Data Compilation and DCS Implementation at Boilers
- Working as a Process Facilitation Engineer in this project. This project aimed to replace the single PID control system of Boilers to YOKOGAWA Distributed Control System.
- Commissioning of 400,000 GPD sea water RO plant
 - Commissioning of 800,000 GPD electro deionization plant

WORK EXPERIENCE:

National Refinery Limited

Process Engineer

February, 2019 – Till Date

JOB RESPONSIBILITIES:

- Work in all the four areas of technological work of the company i.e. Unit and equipment performance monitoring and data logging, plant Troubleshooting and optimization studies.
- Monitor unit production and parameters against the specified targets and advise on optimization of process operation
- Coordination and communication with equipment and chemicals' vendors independently for improvement and troubleshooting
- Conceptualize and prepare unit MOC's based on the outcomes of optimization studies
- Process simulation, Hydraulics and process calculations
- Calculate Equipment's efficiency, operating cost and prepare monthly performance reports
- Material balance and energy conservation

- Perform HAZOP study, Plant modification
- Technical evaluation & Inspection of procured equipment
- Monitoring warehouse inventories of consumables
- Prepare tender of chemicals
- Monitoring of daily lab results and providing corrective actions
- Preparation and updating Standard Operating Procedures
- Provide trainings to operations staff
- Preparing and maintaining IMS documentation

Operation Engineer (Utilities)

October, 2014 – January, 2019

JOB RESPONSIBILITIES:

- Responsible for smooth operation, Startup & shutdown of boilers, cooling towers, RO plants, ETP, Compressors, Nitrogen & Demineralization water plant
- Monitoring and controlling unit parameters to achieve production and products' specification targets
- Analyzing and resolving day to day operation issues
- Permit Issuing authority Hot Work, Cold Work, Confined Space, Crane Operation, Excavation
- Prioritize Maintenance jobs and follow up with Maintenance for critical jobs
- Manpower management of both unionized and non-unionized staff of four rotating shifts
- Operation staff trainings and development
- Plan and prepare for critical jobs on unit

ACHIEVEMENTS:

- Successful commissioning of YOKOGAWA DCS at boilers
- Optimized cooling water system and saved 460 m³/day of fresh water
- Rehabilitated RO plants and increased production by 30 %

SKILLS:

- Good user of Aspen Hysys, Korf, HAZOP Manager
- HAZOP study for projects, modifications and for existing process
- Very good understanding of PFDs, P&IDs, equipment
- Good Software, Communication and time management skills
- Proactive, team player and working well under pressure

CERTIFIED TRAINING:

Two days training **Insight Technology and ISR Exchange Seminar** was organized by SUEZ water and technologies about troubleshooting of crude distillation unit, Desalter, boilers, cooling towers, RO and ETP at Dubai, UAE.

ACADEMIC QUALIFICATION:

- **Master in Engineering Management (Specialization in Environment)**

NED University of Engineering & Technology, Karachi
First Division (3.6 CGPA)
2018 - 2020

- **Bachelor of Engineering (Chemical)**

NED University of Engineering & Technology, Karachi
First Division
2010 - 2014

Pakistan Engineering Council Registration No. Chem/12794
Attested from Higher Education Commission of Pakistan