

**SHOAIB AHMED**  
**PROCESS OPERATIONS ENGINEER**

Mehran University of Engineering & technology

B. E (Petroleum & N. Gas Engineering) 2014 - 2017

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**PROFESSIONAL SUMMARAY**

With over 7 years of Experience in the Commissioning, and Operations of Oil and Gas and Petrochemical Plants, I excel in coordinating and managing all aspects of pre-commissioning and commissioning of CPF and GPF, alongside operational management of petrochemical units. I am eager to contribute my expertise and passion to your team, driving efficiency and success in challenging environments. Improve sustainability, maximize profitability.

**PROFESSIONAL SKILLS**

Familiarity with Process PFDs, P&IDs, Gas processing unit operations and Equipment's, equipment startup/commissioning manuals & procedures, Knowledge of Unit Operations including FEC (Front end compressors). Drilling Oil, Lube Oil, Transformer Oils, Distillation Columns, Fractional column produce water treatment Injection facility, HCDP Unit, Plate and Frame heat exchangers, Shell & tube type HE, Absorber Columns, Wellhead Gas Compressors PD, Centrifugal Pumps & Compressors, Air coolers, and Three Phase Separator, Sludge catcher, Blow case system. Slope Oil Separator, Water Degasser, Air Compressor, Nitrogen generation unit. Chiller Units (York & Zamil Chillers) Propane R-290 Handling, TEG handling, Methanol Handling. RO/Demin Water Plant 50000 GPD Commission and Installation.

**EMPLOYMENYMENT HISTORY**

**PROPOSALS ENGINEER**

**(GASCO ENGINEERING)** *June 2024 TO PRESENT*

**RESPONSIBILITIES**

- Develop technical and commercial proposals in response to client requirements and requests for proposals (RFPs). Collaborate with cross-functional teams to gather technical inputs, prepare cost estimates, and compile documentation.
- Analyze project scope, specifications, and technical requirements to accurately estimate costs associated with materials, labor, equipment, and overhead. Utilize historical data, industry benchmarks, and cost modeling techniques to develop competitive pricing strategies.
- Prepare comprehensive bid packages, including technical proposals, pricing schedules, and supporting documentation. Ensure compliance with client specifications, contractual requirements.
- Cultivate and maintain strong relationships with clients throughout the proposal process. Understand client needs, preferences, and decision-making criteria to tailor proposals and address concerns effectively. Serve as the primary point of contact for client inquiries and clarifications.

- Coordinate proposal activities and timelines with internal stakeholders, including engineering, procurement, and project management teams. Facilitate meetings, reviews, and approvals to ensure alignment and consensus on proposal deliverables.
- Possess a solid understanding of engineering principles, processes, and technologies relevant to the oil and gas industry & Energy Sectors. Interpret technical requirements, specifications, and drawings to develop technically sound and feasible proposals.
- Identify potential risks and uncertainties associated with proposed solutions and mitigate them through thorough risk analysis and contingency planning. Anticipate challenges related to project execution, resource availability, and market conditions to proactively address them in proposals.

#### **Key Major Projects:**

Mari Energies Limited (Nodal Compression Facility)

RDMC Bulk Earthworks

Prime Pakistan (Wellhead compression facility)

United Energy Pakistan (GPF facility)

Pak Arab Refineries (RO Plant 50000 GPD plant)

OGDCL (Gas Processing facility)

Orient Petroleum (Deluge System)

#### **DOCUMENT CONTROLLING:**

Responsible for managing and controlling project documents, including transmittals, technical drawings, procedures, and plans. Ensures proper document segregation, updates the Master Document Register (MDR), and tracks document statuses while maintaining weekly issuance plans.

#### **Key Responsibilities:**

- Organize, file, and maintain accurate records of transmittals, technical drawings, procedures, and plans.
- Update and monitor the MDR to track document revisions, statuses, and approval cycles.
- Segregate documents by type and discipline (e.g., drawings, procedures, plans) to ensure efficient access and retrieval.
- Prepare and manage document transmittals, ensuring accurate logging and tracking.
- Regularly update document statuses (e.g., For Review, Approved, Issued for Construction) and ensure all records reflect the current stage of each document.

**COMMISSIONING ENGINEER** *May 2023 to Mar 2024*

**SAMSUNG ENGINEERING CO LTD (SECL) SAUDIARABIA Client (Saudi Aramco)**

- Pre- Commissioning, Commissioning & Operational activities.
- Preparation of required procedures and periodic reports.
- Review of documentation (drawings, documents, relevant manuals).
- Review red corrected drawings and compare with as built drawings.
- Handled equipment like Centrifugal & reciprocating compressors, Multi stage Centrifugal Pumps (Heavy duty), reciprocating pumps, and all type of heat exchangers.
- Effective participation in periodic meetings.

## **PRE-COMMISSIONING ACTIVATES:**

Hydrotesting, Hydro milling/Jetting, Air blowing, N2 Purging, Lube oil flushing, Chemical Cleaning, Line blowouts, Leak Tests, Cold water flushing (CWF), MRT (Mechanical Run Test), Motor solo run Bump Test.

## **PLANT OPERATIONS**

- Gas Dehydration Unit (DHU), 2000 MMSCFD Gas effectively Removing Moisture Content from the Gas by TEG, Utilizing Emerson Delta DCS System for efficient control.
- Hydrocarbon Dew Point Control (HDPCU) Unit, ensuring the refrigeration of Wet gas and Dry Gas (Sales Gas).
- Slug Catcher Stabilization Unit, for Removing Condensate/Slug from the GGM (Gas Gathering Manifold) Stream across 4 trains, each with a capacity of 500MMSCFD.
- Condensate/Water Stabilization unit and Water Degasser, effectively Separating Produced Water and condensate from the inlet facility.
- HYUNDAI 15 MMSCF Multistage Stage Reciprocating Motor Driven Compressor for Vapor Phase Low Pressure Gases, TEG O/H Vapors, Compressor KOD Etc.
- Gas Reproduction Dresser Rand Two Stage Centrifugal Compressors & ABB (LV) motor with a capacity of 200 MMSCFD for reproduce the stored gas from the wells.
- Propane (R290) Centrifugal MV Motor-Driven Compressors, Essential for the HDPCU.
- Commissioning & Star-up of Desalination & Demin Water Plant 50000 GPD.

## **QUALITY, HEALTH, SAFETY & ENVIRONMENT QHSE**

Followed the SAUDIARAMCO all QHSE polices, Standards and procedures  
Implementation of (LOTO, CSO, CSC PTW, TBM, & JHA) on work place. Holding  
SAMSUNG HSE Passport.

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## **GULF CHEMICAL & INDUSTRIAL OILS (SAUDIARABIA) May 2021 to April 2023**

### **CONTROL ROOM OPERATOR/PRODUCTION OPERATOR**

- Operated Drilling Oil Unit, Extraction with N-Methyl pyrrolidone (NMP)), and efficiently recovering NMP using N-Heptane. Capacity of 50MT/D on a SPEC-VIEW PLC based system.
- Steam Control Reboiler for Generating Steam for Operational Uses.
- UREA Dewaxing Unit, to Produce Transformer Oil at a Maximum Capacity of 6000 kg/hr. Process aimed to produce high-quality Transformer Oil using CSTR Reactors while maintaining VFD's for optimized operations.
- De-Waxed Oil Dehydration for B-Grade Oil Washing & removing Chemical Contents.
- HVAC systems, including Zamil & York Chillers, to ensure precise temperature control and maintain the Pour Point of the unit.

- Washing Unit & Sulfonating Plant, responsible for extracting residual chemicals and urea content from Transformer Oil. Employed a Vacuum pump to retrieve IPA chemical for further distillation.
- Fraction Distillation Column to produce White Spirit, SS300 Light Gas Oil & SS400 (Heavy Gas Oil) from Diesel Distillation, executed this process using the Honeywell system.
- Maintained a logbook, conducted troubleshooting, carried out routine inspections, and effectively controlled PLC systems to ensure smooth and efficient operations.
- Utility Section Handling Boiler, Heater, RO Plant, UA, IA.

## **GASCO ENGINEERING ONSHORE** Client POLISH Oil & Gas Pak *(Jan 2020 to Feb 2021)*

### **PRODUCTION SUPERVISOR (COMMISSIONING)**

- Amine Sweetening unit (GSU) designed on 80 MMSCFD gas flow rate to achieve desired specifications. Allen- Bradley® (PLC)
- 40 MMSCFD Two Dehydration Plant (DHP) Extraction with TEG
- Three phase separator, flare KOD, produce water pit.
- RO Plant/Demin 50000 GPD Commission and Installation

### **GAS UNIT OPERATIONS:**

- Three-phase Separators (Production & Condensate water) and two-phase separators (Water Degasser, Knockout drum.)
- Gas treating/Sweetening unit using Methyl Di Ethanol Amine (MDEA), Burner Management System, Plate & frame Heat exchanger, Evaporative Air Cooler and MDEA Regeneration Unit.
- Isolation & de-isolation of compressors, start-stop logics, Recycle and Anti-surge functions, Scrubbers, Auxiliary pumps and Heat exchangers.

### **PLANT OPERATIONS**

- Gas treating/Sweetening unit using Methyl Di Ethanol Amine (MDEA), Injection/Sale gas metering unit, Dehydration unit using TEG
- Three-phase separators & two-phase separators (Amine Scrubber, Degassing Tank, LP Knockout drum & HP Knockout drum & Flash Tanks).
- Utility operations RO/Demin plant 20000 GPD, check conductivity, PH on daily basis using PLC-based.
- To monitor all operational parameters of the plant and conduct daily logging of the same in the respective log-sheets. Follows routine Operations & monitoring of production equipment using DCS and PLC based systems.
- Shell & tube, plate & Frame heat exchangers, PD & Centrifugal pumps and air coolers. assess process to ensure regulatory compliance.

## **PROCESS OPERATIONS ENGINEER**

### **WELLHEAD PRODUCED WATER INJECTION FACILITY:**

- Produced Water treatment and injection into Wellhead (Dead Well).
- Siemens DC and PLC system.
- High Pressure Pumps driven with CAT diesel Engine for the injection of produce water after treatment.
- Pure Nitrogen plant (NGU) compressor Unit used for the instrument system of the plant.
- Galaxy Tower (Binary Separator), Buffer tank & Oil storage tanks are available for the treatment of produce water.
- Chemical Dosing i.e., CI, Oxygen Scavenger, Polymer, FeCl<sub>3</sub> used for the treatment of produce water.
- Dual Pod filters for the purification and minimizing TSS to safe environment & reservoir to observe visually /Physically plant Equipment's Parameters
- Isolation of Equipment for maintenance jobs Electrical/Mech/Instruments

### **FRONT END COMPRESSION FACILITY**

- Handling of Wellhead Compressors with Startup/Shutdown, Operation and troubleshooting of Multistage Double Acting Gas Reciprocating Compressors.
- Operate and Control AJAX DPC Reciprocating compressor 2802/2803/2804 Operation.
- Operation of PLC System. (Murphy) Operate and Control Condensate Stabilization system such as Slug catcher & Blow Case System.

### **CERTIFICATES**

- IOSH Managing Safety 5.0
- Basic Firefighting GTSC Saudi Arabia
- Confined Space Entry (Safecon)
- Life Safety Code NFPA 101

### **TRAININGS & ACTIVITIES**

2023 | Attended SAOO (Saudi Aramco Basic Safety Training).

2023| Working at height (Samsung Engineering)

2023| Musting Point Drill by (SAUDIARAMCO)

2022| Attended Basic Fire Fighting from GTSC SAUDIARABIA

2020 | Attended PTW training arranged by PGNIG Pakistan 2020

2018 | Attended PTW training arranged by MOL Pakistan.

2019 | Attended General Electric (GE) MH/WH Compressors training arranged by Gasco

2019 | Attended MAL Pakistan Lubricants training arranged by GEPL