**ASIF**

**Senior Field Operator CDU/VDU**

**Junior DCS Controller CDU/VDU**

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**[DOB : 02 - 02 - 1985]**



**Total Professional Experience** **13 years**

**PROFESSIONAL SUMMARY**

I have diversified professional experience majorly as an Head Operator in a **Pakistan-Abu Dhabi Joint Venture.** My key responsibilities related to this job are to ensure the smooth and safe operation of **CDU** (Crude Distillation Unit) **and VDU** (Vacuum Distillation Unit). In future, I want to proceed my careerwhere I can show my skills and broaden my horizon beyond limits. I want to get a responsible position in an organization which can utilizes my innovative and hardworking skills and help me to motivate myself, induce professional competence and offers career growth.

**Crude Distillation Unit (120,000 BPSD)**

**09 Years ( May 2011 to Till date) working experience as Senior Field operator/Junior DCS controller.**

**Areas of Expertise:**

* Arabian Light , Upper Zakum, Murban, DAS and Local Pakistani Crude and Condensate crudes handling
* Sour Water Handling
* Crude Preheat Section ( Shell and Tube type Heat Exchanger).
* Two stage electrical desalting system.
* Chemicals injection/handling (Ammonia, Anti-foulant, Corrosion inhibitor, Demulsifier, Di-Sodium/Tri-Sodium Phosphate).
* Pre Flash Drum(Pre-Flash Vessel)
* Centrifugal/PD Pumps, Air Fin Fan Coolers.
* Furnace (Box type, Cylindrical type, Forced Draft ,Dual fuel fired with combustion air preheater and Superheating coils).
* Crude column and Stripper section (accumulator trays, Valve trays/ Sieve trays).
* Net Gas Compressor (Positive displacement , single stage, Double acting)
* Kerosene/Diesel coalescer, Diesel salt dryer.
* Medium pressure Steam Generation System.

**Vacuum Distillation Unit:**

* Vacuum column with sieve tray & packed bed,
* Ejectors operated by MP steam.
* Cylindrical furnace with force draft fan (fuel oil, fuel gas firing)
* Fuel oil blending (FOB) and Diesel oil blending (DOB) experience to keep these products on specification with all parameters controlled within design range.
* Tempered Water System for fuel oil exchangers.

**Blending Area :**

* Fuel Oil Blending (FOB)
* Diesel Oil Blending (DOB)
* Light Diesel Oil Blending (LDO)

**Job Description & Responsibilities:**

* Resume shift duty and take charge from the outgoing DCS/ Field operator and on completion of shift duty, handover charge to the incoming DCS/Field operator verbally and by log book.
* Responsible for the smooth operation of assigned plant area.
* Normal Startup & Shut Down.
* Desalter and Desalting normal operation including its troubleshooting.
* Vacuum Creating System and its troubleshooting.
* Normal and efficient Furnace operation and its troubleshooting.
* Carry out the safe preparation of equipment for maintenance and inspection and monitor the work to ensure compliance with work permits.
* Soot blowing operation of the Heaters.
* Monitor Daily key operating parameters to improve yields and energy safe utilization.
* Deal with any emergency to prevent production loss and their relevant Hazards.
* Maintaining Plant record , Log Sheet, Log Book and Chemical inventories
* Coordination and supervision of all maintenance and instrument related jobs which are being carried out at plant during shift.
* To communicate and follow instructions of the Shift Controller to carry out duties

efficiently and safely.

* To collect products routine and check samples and send them lab.
* To check process field parameters and coordinate with the control room Operator to correct any deviations ,also logging of these parameters.
* To carry out routine checks on rotary equipment for abnormal sound, vibration, bearing temperatures and inform Supervisor immediately for prompt action.
* To prepare the plant/equipments for maintenance ensuring adherence to standards
* To check and ensure the proper chemical injection rate as per instructions.
* To carry out duties as “Auxiliary Fireman” during emergencies.
* To ensure compliance to all relevant safety, quality and environmental management policies, procedures and controls to guarantee employee safety, legislative compliance, delivery of high quality products/service and a responsible environmental attitude.
* To follow all relevant departmental policies, processes, standard operating procedures

and instructions so that work is carried out in a controlled and consistent manner.

* To operate outside machinery and related equipment safely and efficiently as per SOPs and instructions.
1. **Years experience (August 2007 to May 2011) as Field operator at Ammonia Plant in**

**FAUJI FERTILIZER COMPANY LIMITED.**

**Fauji Fertilizer Company Limited Goth Machi (IMS Certified)**

Worked as Process Plant Operator with Fauji Fertilizer Company Limited at Ammonia section designed and erected by SNAM PROGETTI with DCS Control System TDC-3000 (Honeywell, USA) I have also done **Two Year Apprenticeship** from Ammonia Unit (Haldor Topsoe).

**Desulphurization, Reforming and Shift Conversion:**

* Sulphur Removal**:** Sulphur is removed from NG in Sulphur Absorber, containing Zn O catalyst.
* Primary Reformer**:** Steam Reforming using nickel based catalyst
* Secondary Reformer (Auto thermal Reforming) Catalyst Nickel based, Combustion source Air.
* Shift Conversion**:** Medium Temperature Shift Converter (MTSC) & Low Temperature Shift Converter (LTSC) convert CO in CO2 in the presence of Copper Oxide catalyst.
* Waste Heat Recovery: 120 Tons/HR KS steam. Heat source is hot gas from secondary reformer.
* Carbon Dioxide Removal: CO2 is absorbed into METHYLE DI ETHANOL AMINE solution containing, 45%MDEA, 05%Piperazine and balance is Water this section is removing about 32000NMC carbon dioxide gas per hour.
* CO2 Absorption Columns**:** Counter current absorption is in a packed tower containing 05 beds of CS rings (IMTP)
* High Pressure Flash Drum **:** Absorbed inert gases (Hydrogen and Nitrogen) are flashed out and recycled to absorber
* Low Pressure Flash Drum**:** Carbon dioxide is flashed.
* Carbon Dioxide Stripper**:** Semi lean solution is regenerated into lean solution.
* MDEA Pumps**:** Heavy duty CENTRIFUGAL PUMP
* Methanator**:** CO/CO2 removed in Ni Based catalyst.

**Ammonia Storage and Refrigeration:**

* It Consist Of Ammonia Storage Tank having capacity of 5000 met with four positive displacement compressors, two are motor driven & two are DIESEL ENGINE driven for vapors compression & liquefaction. It also consist Four multistage centrifugal pumps for ammonia transfer to urea unit.



**HSE TRAININGS**

* Fire Management system.
* Hydrocarbon detectors, H2S detectors, UV/IR flame detectors.
* **ERT** membership.
* Proper use of PPEs.
* Fire Fighting, prevention and control.
* Electronic PTW / PTW issuer
* Confined Space Entry
* Authorized Gas Tester



**ANNUAL TURN AROUND**

* Three Time TA experience in PARCO and Two Time in FFC.
* Safely shutdown the plant and start up of the unit after maintenance activities as per SOP.
* Handing over the plant to maintenance after flushing of dedicated circuits.
* Replacement and repairing of distillation trays.
* Internal cleaning of CDU/VDU vessels and equipments.
* Heat Exchangers tube replacement/cleaning.
* Furnace tubes replacement/inspection.
* Furnace tubes steam/air decoking and Pig decoking.



**REVAMP EXPERIENCE**  Revamp project of CDU plant carried out and capacity increased to 120,000 BPSD from 100,000 BPSD. Hand on experience of following revamp activities during operational plant.

* New circulating Naphtha cooler installation.
* New PSVs installation as per modification.
* New control valves installation and replacement of existing valves as per modification of revamp.
* Line sizes modifications and cutting/ welding of existing lines by handing over the circuit on online operational plant as per SOP/ JSA.
* New Pumps cabling and impeller changing, Heater burners and convection passes modification, Pilot burners cables modification.



**EMERGENCY HANDLING**

* Number of power dips, power failures.
* Utilities failure like Power, steam, Instrument air, Cooling water failure.
* H2S gas leakage, hydrocarbon leakage and fire
* Fuel failure.



**Academic Qualification :**

* **B.Tech Chemical Technology :** B.Z.U , Multan , Pakistan.
* **D.A.E (Chemical):**

**Position Holder PBTE, Lahore , Pakistan**

G.C.T , Multan , Pakistan.

* **Intermediate (Computer Science) :**

B.I.S.E , Multan , Pakistan.