**YASIR ARFAT**

 **Chemical Plant / Process Operator**

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# Experienced Chemical Plant Operator with expertise in process safety plant operations with confined space entry. Committed to ensuring safe and efficient operation while maintaining the highest quality standards in the chemicals and fertilizer manufacturing industry. Skilled in monitoring and optimizing production processes to ensure efficiency and reliability. Committed to maintaining safety standards, regulatory compliance, and operational excellence. Adept at handling hazardous chemicals and troubleshooting equipment issues. Passionate about continuous improvement and contributing to a productive work environment.

# **EXPERIENCE**

**Utility Operator**  **January 2025 *–* Present**

**Sindh Engro Coal Mining Company SECMC Block-II Thar Parkar**

**Responsibilities**

* Operate and monitor utility systems, including RO (Reverse Osmosis) CPS ( Comprehensive Pumping System )

STP ( Sewage Treatment Plant ) and DW ( Dewatering ) systems.

* Ensure efficient water treatment and distribution for plant operations.
* Conduct routine inspections maintenance and troubleshooting of utility equipment.
* Maintain log sheets and operational records for process monitoring.
* Adhere to HSE standards OSHA and Queensland and company SOPs to ensure safe operations.
* Coordinate with engineering and maintenance teams for system optimization.

 **Chemical Plant 2024 - January 2025**

**Fatima Fertilizer Company Limited**

**Intermediate Products NH3 HNO3 Final Products NP CAN Urea**

I worked as a plant operator in Fatima Fertilizer company ltd from January 2022 at NP plant designed by

( CFIH ) having 1200 TPD capacity plant is fully equipped with most advanced technology by DCS of YOKOGAWA japan.

**Responsibilities**

* Operate and monitor plan parameters.
* Adjust process parameters for optimal production and efficiency.
* Manage Compressors screw type ( Atlas copco )
* Pumping stations ( Centrifugal & PD )
* Pressure filter Panel Operated ( Outotec larox finland )
* Hydraulic system ( Operating pressure 250 bar )
* Direct fired furnace ( Methane handling Purging and Soap testing )
* BMS ( Burner management system operating )
* Blowers PD Centrifugal type and Rotary valves
* PRDS ( Pressure reduce de-super heating system )
* Conveyor belts Bucket Elevators
* Absorption column
* Ammonium nitrate concentration
* calcium nitrate conversion reactors pumps compressors and heat exchangers troubleshooting issues.
* Ensure compliance with HSE policies SOPs and safety regulations.
* Conduct routine inspections and report maintenance needs.
* Handle Ammonia ( NH3 ) Nitric Acid ( HNO3 ) and other intermediates safely.
* Participate in emergency response drills and safety procedures like PSM and D-level
* Maintain log sheets shift reports and production records in ORA.
* Coordinate with engineers DCS operator maintenance and lab teams for quality control and abnormalities.

**Apprenticeship 2022 - 2024**

**Fatima Fertilizer Company Limited**

**Responsibilities**

* Trained to P&ID PFD and BFD and basic knowledge about Plant equipments and Safety standards.
* Learned to adjust process parameters for optimal efficiency and production.
* Assisted in equipment handling including reactors pumps compressors Blowers Rotary valves Neumatic valves Hydraulic valves SOVs Furnace BMS Burner management system Tanks Vessels Belt conveyors Screw conveyors Bucket elevators heat exchangers and instrumentations.
* Gained knowledge of HSE policies SOPs PSM ESM SBM Fire watchmen First Aid and safety procedures.
* Performed routine inspections and supported maintenance activities.
* Learned safe handling of Ammonia ( NH3 ) Nitric Acid

( HNO3 ) and other intermediates products like Calcium nitrate Ammonium nitrate Calcium carbonate Steam Cooling water Plant air.

* Maintained log sheets and production reports for process documentation using ORA operator round automation.
* Coordinated with senior operators engineers and maintenance teams to enhance plant operations.

 **Data Entry Operator 2020 - 2021**

 **Engro Powergen Qadirpur Limited**

**Responsibilities**

* Managed and maintained salary and attendance records for employees.
* Ensured accurate and up-to-date data entry in the system.
* Verified and cross-checked employee work hours leaves and overtime.
* Assisted in generating payroll reports for salary processing.
* Coordinated with HR and finance departments for data accuracy.
* Handled confidential employee records with integrity and discretion.
* Performed data validation and error correction to maintain record accuracy.

# **PROFESSIONAL RESPONSIBILITIES**

# Routine field visit and equipment inspection to check abnormalities.

* Controlling & monitoring unit parameters in technically safe manners.
* Verification of HMI with local instrumentation.
* Reporting plant status or any abnormalities to senior operator and shift in-charges.
* Participates in all maintenance and inspection activities.
* Perform energy isolation LOTOTO log-out tag-out & try out of equipments.
* Flushing Purging Steaming Air blowing Nitrogen purging Soap testing of the system. Understand use P&ID PFD and BFD MSDS
* and Manual and procedures of the plant Top level documents Safety critical devices and defeat protocols.
* Products sampling and testing in field.
* Good command on safe start-up and shut-down plant operation.
* Ensure incoming shift operator is fully briefed on current operating status and significant event during previous shift to ensure seamless hand-over of responsibilities.

# **WORKING AREAS**

# Compressors screw type ( Atlas copco )

# Pumping stations ( Centrifugal & PD )

# Pressure filter Panel Operated ( Outotec larox finland )

# Direct fired furnace ( Methane handling )

# BMS Burner management system operating system.

# Hydraulic system ( Operating pressure 250 bar ) Direct fired furnace

# Blowers and Rotary valves

# PRDS ( Pressure reduce de-super heating system )

# Conveyor Screw belts

# Absorption column

# Ammonium nitrate concentration

# Calcium nitrate conversion

# Lime drying unit

# Lime conveying unit

# **EDUCATION**

# **Technical Training College Daharki 2015 - 2018**

DAE Chemical Engineering

* **USMS Mahesro Ghotki 2013 – 2015**

Intermediate ( pre-engineering )

# **SAFETY TRAININGS**

# Permit to work system ( Cold Hot Confined space and 5 more )

# Uses of PPEs ( Helmet Splash goggles Safety shoes Chin strip etc )

# Stand by men

# Fire watchmen

# PSM & EMS First aid

# Process hazards analysis

# Pre-start-up safety review

# Process safety information

# MOC’s Facility Technology & Personnel

# Emergencies level 1 & 2

# **TURNAROUND EXPERIENCE**

# One annual TA and many start-up shut-downs

# Critical jobs Vessel entry Inspection Box-up

# Leak test Pressure and Vacuum test

# Soap testing

# **EMERGENCIES HANDLINGS**

# Power failure

# Steam failure

# Cooling water failure

# Instrument air failure

# Black out

# **SKILLS**

 **Soft Skills**

* Proficient in Microsoft Office Word Excel PowerPoint Research

 **Personal Skills**

* Communication Time-management Adaptability Problem solving Analytical Thinking Teamwork.

# **LANGUAGES**

# English

# Urdu

# Punjabi

# Sindhi

# **REFERENCES**

# References will be furnished on demand.