

Rao Ghulam Mustafa

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CV for Process Operator Experience 07 Years

OBJECTIVE:

To build my career in leading modern company and to prove myself in practical field, where I can participate to enhance the business of the company by using my capabilities, skills, education & experience.

PROFESSIONAL EXPERIENCE:

ENGRO CHEMICAL PAKISTAN LTD

Currently I am working as Field Operator in Engro Fertilizers Pakistan which is **World Largest Ammonia-Urea Single Train Plant Expansion unit Designed by "SNAMPROGETTI" having capacity of 3835 MTPD (Urea) Controlled by DCS of HONEYWELL.**

"**ENGRO** is ISO-9001:2000, ISO-14001:2004, OHSAS 18001:1999, SA 8000:2001 certified & adopted a worldwide **PSM** safety System of **DuPont.**"

PROFESSIONAL EXPERIENCE DETAILS:

➤ Steam Turbine (Extraction, Induction & Condensing Type):

It is driven by 110 Kg/Cm² Steam at 510 °C temperature. Normal speed 7017 RPM, Manufactured by **NUOVOPIGNONE**. Rated power **15.9 MW**. Electronic **Wood Ward governor** for turbine speed controlling. Bentley Nevada for vibration monitoring.

➤ CO₂ Compressor Section (centrifugal):

Two casings, four stages. It is equipped with **automatic surge control system (CCC)**. Discharge pressure 160 Kg/Cm², capacity **64000 NMC /hr** Manufactured by **NUOVOPIGNONE**. **Bentley Nevada** vibration monitoring system. Compressor is furnished with **Dry Gas Seal** system.

➤ SYNTHESIS AND HIGH PRESSURE SECTION.

Plug flow Reactor consists of 18 sieve tray. Falling film NH₃ stripper /Carbamate condenser + **Waste Heat Boiler**. Having two centrifugal pumps with operating pressure 240kg/cm² and two Centrifugal carbamate pumps with operating pressure 170kg/cm² Two motor driven PD Compressor.

➤ Distillation & Hydrolyzer Section:

This section is installed to purify polluted water coming from Urea reactor. We recover NH₃ & CO₂ by **distillation** and recycle back to plant. Section is equipped with **distillation tower**, heat exchangers.

For further purification of wastewater & decomposition urea contents, hydrolyser section is installed. Operating pressure is 34Kg/Cm².

➤ MP/LP/PCT SECTION

Urea purification and relevant overhead gases recovery take place in two stages , as follows:

- 1st stage at 18.5 kg/cm² (abs) pressure (65% Urea at Outlet)
- 2nd stage at 4.8 kg/cm² (abs) pressure (72% Urea at Outlet)

➤ VACUUM & PRILLING SECTION

This section consist of Vacuum concentrators to produce 99.75% pure UREA.
A natural draft Prilling tower of height 125 meters for molten Urea Prilling and solidification.

A **flare system** to burn out harmful gasses.

➤ ACHIEVEMENTS

- Achieved 03 times spot award for handling emergency (Level-1 award)
- High TAN issue resolve at Centrifugal Compressor.
- Successful over speed trip test (OST) of steam turbine.

➤ Successful Handling of the Following Emergencies at ENGR0

Cooling Water Failure, Power Failure, I.A. Failure, Steam Failure, DCS Failure

➤ TECHNICAL & SAFETY SKILLS

- Self-motivated.
- Response Management.
- Problem Solving & Decision Making
- Communication & Interpersonal Relationships.
- **CPR** (cardio pulmonary resuscitation)
- **CSE**, Confined space entry.
- Fire Fighting & First Aid (Emergency response team member)
- Safety Critical System
- Work permit procedure
- **HAZOP** Hazards Operability
- **PHA** Process Hazards Analysis
- GAS TESTER Certified & Explosivity Monitor
- **SAP** (System, Applications, And Products In Data Processing)
- **PSM** Process Risk Management
- **EMS** Environment management system

➤ Key Responsibilities

- Responsible to MONITORING & CONTROL over all PLANT OPERATION and maintain the operating conditions under desired limits
- Prepare production & dispatch summary and report to shift supervisor
- Take decisive actions and communicate with shift supervisor, field operators in case of TROUBLESHOOTING, emergency, equipment failure or any process deviations.
- Compiling and management of maintenance forms, records, reports and data logging
- Authorize and co-sign maintenance work permits (PTW).
- Develop and review the Standard Operating PROCEDURES.
- Performs system START-UP AND SHUT-DOWN as per procedures.
- RISK ASSESSMENT and Job Safety Analysis

➤ ACADIMIC QUALIFICAITON:

- | | | |
|----------------------|-----|--------------|
| ➤ H.S.S.C (F.Sc) | 93% | Lahore Board |
| ➤ S. S. C. (Science) | 89% | Lahore Board |

- TECHNICAL QUALIFICATION:

1.8 years apprenticeship as chemical plant operator from Technical training center of Engro Fertilizers Pakistan, Daharki, district Ghotki.

➤ COMPUTER SKILLS

- ✓ Microsoft Office, Email & Internet.
- ✓ LOTUS,LIMS.SAP

✓ Sphera Impact

➤ **PROFILE**

Father's Name	Iffikhar Ahamd
Date of Birth	01-Apr-1991
CNIC#	35302-5177942-9
Nationality	Pakistani
Domicile	Okara (Punjab)
Religion	Islam
Language	English, Urdu, Punjabi