

## MUHAMMAD TANVIR FALAK KHAN

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### Summary

- A seasoned senior management professional with 31 years of experience of chemical and metallurgical plants installation & commissioning, production and management in Pakistan Atomic Energy Commission
- Twenty years administrative (being In Charge / Manager of different sections)

### Specialties:

General Management, Operational Management, Procurement, Human Resource Hiring and Development

**Note:** Being classified projects of PAEC, nomenclature of metals, relevant budget and saving figures can't be disclosed.

### Chief Engineer, PAEC (01.12-2012 to 04.01.2015)

- Developed a new process after R & D for production of a classified metal starting from ore, to economize the process and reduce the labor by reducing intermediate steps almost half of previous process.
- Designed & developed a process for production of intermediate chemical at large scale to meet the requirement of process eliminating the long process taking 45 days to produce 20 liters by producing about 200 liters in 15 days.
- Conventional filtration operation was replaced with Membrane filtration to reduce the filtration time from 48 hrs to about 08 hrs with better filtered solution giving more pure product.
- Prepared annual budgets and met the production targets within stipulated time frame and available resources.
- Worked as IT coordinator for liaison with MIS (Management Information System) Directorate.
- Worked as Audit coordinator for settlement of audit observations.
- Maintained the Manpower data for ready reference of seniors in a self-developed program in MS Excel.

- Computerized the store of project with collaboration MIS Directorate officials which reduced the labor of maintaining the manual ledgers.

#### **Dy. Chief Engineer , PAEC (01.12-2006 to 30.11.2012)**

- Assigned duties at a Metal Production Plant.
- Lead the R & D process to improve the process efficiency of Classified Metal production changed the process for better efficiency and less labor which saved time and revenue. Increased the production capacity of plant to 100 % within existing setup and increased recovery from 45 % to 70 %.
- Extended the plant under the provision of PC-I to meet the enhanced production targets.
- Appointed as Manager of a Metal Production plant in April 2008.
- Increased the batch size of processing of ore to minimize the expenditures which increased the capacity of production saving revenue and labor.
- Increased the bath size of melting of metal more than two times to save energy cost, time and labor.
- Efficiency of crystallization process was increased by applying vacuum to crystallizers.
- Designed a rubber bag for pressing of metal powder to save about 20 % powder with better physical properties.
- Worked for better infrastructure of the plant to motivate the workers.
- Trained fresh Engineers for efficient and honest working.

#### **Principal Engineer (01.12-1996 to 30.11.2006)**

- Introduced automation and control system for some processes at the plant.
- After R & D, the parameters of one intermediate product were changed to get double production saving electric power expenditure.
- Improved the insulation of a unit so that no external heating required and the temperature was maintained by the hot product.
- Changed material of construction of some units for efficient and long lasting operation with different chemicals which saved the revenue and labor of replacing the unit frequently due to corrosion.
- Coordinated with procurement branch for efficient purchase with technical guidance.
- Introduced computer based working in procurement branch.
- Appointed as In Charge of a metal production plant. Responsible for yearly budget preparation, maintaining the record of budget expenditure.

#### **Senior Engineer (01.12-1988 to 30.11.1996)**

- Assigned duties at one section of metal production plant as In Charge.
- Performed commissioning and operation of a chemical and metallurgical plant for production of a metal.
- Installed and commissioned the metal production plant which included high vacuum system which was installed first time at the project.
- Designed, installed and operated successfully resistance heating furnaces 1<sup>st</sup> time at project which reduced the cost of heaters being used earlier
- Have the honor to produce a metal first time in Pakistan at large scale.
- Appointed as In Charge of Metal production plant in 1994.

#### **Assistant Engineer (19.10-1983 to 30.11.1988)**

- Joined as Assistant Engineer on 19.10.1983 in Pakistan Atomic Energy Commission Dera Ghazi Khan and worked as Shift Engineer.
- In late 1984, was assigned the extension work of a refining plant which included solvent extraction, clarifying, filtration and rotary furnace operations which were completed successfully.
- Keeping in view the past experience, in late 1987, assigned duties at a metal production plant.
- At metal production plant, worked for improvement of the process and achieved production targets at lower production cost by changing the process, construction material and amendments in process.
- Worked for better infrastructure of the plant to motivate the workers.
- Trained fresh Engineers for efficient and honest working.
- Worked as coordinator for Audit.
- Worked as I. T. Coordinator.
- Coordinated for computerization of Store at Project and installed the program with coordination of MIS Directorate.

#### **Education:**

University of Punjab, Lahore.  
B. Sc. Chemical Engineering

#### **Professional Activities**

“Senior Management” Course at PIEAS, Islamabad.  
PEER Review Standards Training Course  
Quality Management System Training Course  
CWC courses at different times

Time Management workshop

Moody International Certification on Internal Auditing

Project Planning & Management

**Miscellaneous**

Trained fresh engineers for efficient and honest working.

Convener for evaluating the cases of prolonged medical treatment committee.

Member for allotment of official accommodation.

Member of committee for officers' hostel management committee.

President/Member of disciplinary action committee.

One year teaching experience of DAE class at Govt. College of Technology, D. G. Khan

**Computer Skills:**

MS Word, MS Excel, MS Power point