

MUNAM MUSHTAQ (Mechanical Engineer)

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Professional Summary:

I am a highly skilled and results-driven Mechanical Maintenance & Reliability Engineer with over 7 years of experience in mechanical maintenance, troubleshooting, and process optimization. Possesses comprehensive expertise in machinery maintenance, reliability engineering, lubrication management, and equipment asset management. Adept at implementing preventive, predictive, and corrective maintenance strategies to ensure smooth plant operations and lead teams effectively in high-pressure environments. Demonstrated proficiency in SAP PM, AutoCAD 2D/3D, and international engineering codes and standards.

Certified Maintenance and Reliability Professional (CMRP®) and ICML Level II Machine Lubricant Analyst (MLA II), committed to enhancing operational efficiency, equipment reliability, and safety performance.

QUALIFICATION:

Bachelor of Science: Institute Of southern Punjab university of Multan Pakistan

Major: B.Sc. Mechanical Engineering

PROFESSIONAL CERTIFICATION & SKILL:

- Certified Maintenance and Reliability Professional (CMRP®)
- International Council for Machinery Lubrication (ICML) Level II Machine Lubricant Analyst (MLA II)
- Lean Six Sigma Yellow & White Belt
- Nebosh-IGC
- Vibration Training Category 1+
- Autocad 2D/3D
- SAP (Plant Maintenance)
- Multi Welding inspection Course
- Project Management Skill
- Primavera P6 Course
- Precision Measuring Instruments
- Mechanical Troubleshooting & Overhauling
- Preventive & Corrective Maintenance
- Hydrostatic Testing & Valves Maintenance
- Isometric Drawings & Fabrication
- Engineering Codes & Standards Compliance

PROFESSIONAL EXPERIENCE

KLYBECK LIFE SCIENCE SA (DAMMAM SAUDIA ARABIA)

Mechanical Engineer (Engineering Department) January 2023 to December 2025

Job Responsibilities:

- Adhere strictly to the company's 100% EHSSQ system and Standard Maintenance Procedures (SMP), ensuring compliance with all safety, health, and quality standards.
- Ensuring high equipment reliability minimizes unplanned downtime, extends asset life, and improves overall operational efficiency, directly impacting production output and cost control.
- Reliability engineering uses tools like FMEA, RCA, and condition monitoring to develop predictive and preventive maintenance strategies, reducing failure rates and optimizing maintenance resources.
- Develop and update SOPs and preventive maintenance documentation for all machinery.
- To make job Plans and coordinate corrective and preventive maintenance activities.
- Troubleshooting and repair on rotary and static equipment like Centrifugal Pumps, Positive displacement pumps, gearboxes/Agitators, compressors, conveyors, blowers, Heat Exchangers, Boilers, Piping, Tanks, Vessels, valves.
- Mechanical seal installation (both cartridge and component, single and double).
- Coupling installation and removal (almost all types)
- Bearing removal and installation (both plain and antifricition)
- Perform laser Alignment and Perform pump and motor alignment by using dial gauge.
- Monitor and implement preventive and Corrective maintenance programs for HVAC, plumbing, and mechanical systems to reduce downtime and ensure optimal performance.
- Utilized CMMS Oracle for work order management, preventive maintenance scheduling, spare parts tracking, and asset history.
- Ensured accurate documentation of maintenance activities, failure reports, and equipment history in CMMS.

- Participate in commissioning start-up maintenance activity
- Supervise and participates in plant trip/failures assessment teams for determination of root cause and providing recommendations
- Participate in the annual review of the planned maintenance programs and equipment audits
- Prepare Technical reports on healthy and unhealthy equipment
- To Identify, analyze, and review equipment maintenance problems with the Maintenance and Other engineers
- Supervise evaluation, installation, operation, maintenance, and repair of any new or existing equipment
- To work with the material coordinator to prepare a catalog for managing stocks of supplies and equipment spare parts.
- Manage relationships with external vendors, contractors, and service providers to ensure high-quality service delivery.
- Oversee the operation, maintenance, and inventory of tools, equipment, and machinery; ensure timely procurement of necessary supplies.

Equipment worked on:

- Centrifugal Pump and Positive Displacement Pump, Vacuum Pump
- Valves like Globe valves, Gate valves, sleeve Valve, Non-return valves, Butterfly valves, Diaphragm valves, pneumatic valves, PSV Valves
- Air Compressor, Nitrogen Generation
- Heat Exchanger, Boilers,
- AHU, HVAC, FCU, System
- Pressure Vessels & Tanks
- Water Purification Systems (WFI, RO, DI)
- Agitators for Tanks or Reactors

FAUJI FERTILIZER BIN QASIM LIMITED COMPANY PROFILE

Fauji Fertilizer Bin Qasim Limited Company has about 60% market share of Urea Production in Pakistan.

Product Sona Urea 46% Nitrogen

Design SNAM Propegeti (Italy)

Catalysts Haldor Topsoe (Denmark)

Capacity 2500 MTPD

FAUJI FERTILIZER BIN QASIM LIMITED PAKISTAN

Mechanical Engineer (Mechanical Maintenance Dept) November 2021 to December 2022

Job Responsibilities as Mechanical Engineer.

- Perform PM & CM Activities as per SMP and completing the jobs on time along with proper documentation.
- Maintenance, troubleshoot & Overhauling of Centrifugal compressor.
- Manual valves repairing and performing hydro test in the valve for checking.
- Centrifugal pump removal for overhauling and installation at site.
- Perform pump and motor alignment by using dial gauge and fixer laser.
- Heat Exchanger opening for inspection and hydro-jetting cleaning, after cleaning boxingup the system with new gasket and by following the right torquing manner.
- Manual valves removal for repairing and installation.
- Worked on multistage centrifugal compressors (Dresser-Rand), including inspection, operation support, preventive maintenance, troubleshooting, and overhaul activities.
- Mechanical seal installation (both cartridge and component, single and double).
- Coupling installation and removal (almost all types)
- Bearing removal and installation (both plain and antifriction)
- Executed combustion chamber inspection on GE Gas Turbine Frame-V (MS-5001) at FFBL, including inspection of liners, transition pieces, fuel nozzles, and flame detectors, ensuring compliance with GE OEM standards.
- Worked on different valves (Globe valve, Gate valve, check valve, Butterfly valve, Plug valve PSV Valve NRV Valves.
- Do modification jobs of equipment, instrument & piping for more efficiency.
- Good knowledge of Engineering Code & Standards.
- Adherence to safety to reduce safety incidents up to minimal and enhance productivity to maximum.
- Led and monitored daily housekeeping activities for plant equipment and offsite areas, maintaining high EHSSQ standards and supporting excellent performance in annual HK inspection competitions.

Project Department (Technical Services Dept.): December 2020 to November 2021

- Developing the drawing of Shafts of Impeller, Gears, Sprockets and Shaft Sleeves Pulley & Other Spare Parts.
- Drawings Inspection of New Spare Parts Made by Machine Shop & Fabrication Shop.
- Daily Maintain & Update Records Using SAP.
- Prepare B.O.M of Drawings.
- Best Knowledge and Usage of Precision Measuring Instruments.
- Prepare drawing of Tank & Vessel as per Code & Standards.
- Prepare shop drawing of steel structure.
- Propose Roots, Support and other Arrangement for new Pipelines.
- Preparing Isometric of piping and plan of fabrication & Installation in field.
- Verifying proposed job at the time of fabrication & installation in field.
- Prepare Layout of Pipeline, Civil & Structural drawing.
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Equipment worked on:

- Centrifugal pump, Positive displacement pump
- Gear Boxes, filters & Steam Traps
- Exchangers (Shell & Tube Type, Plate Type)
- Different types of Valves like Globe valves, Gate valves, sleeve Valve, Non-return valves, Butterfly valves, Diaphragm valves,
- Chains, Belts, Conveyors, Couplings.
- Multistage Centrifugal Compressors (Dresser Rand)
- Cooling towers (Force Draft, Induced Draft and Balanced draft)
- Gas Turbine Frame-v (MS-5001) By GE on Combustion Chamber

PAKARAB FERTILIZER LIMITED MULTAN PAKISTAN

Mechanical Supervisor (Mechanical Maintenance Department) May 2016 to March 2018

Job Responsibilities.

- Supervised and led mechanical maintenance teams, ensuring timely and safe completion of all activities.
- Trained, mentored, and motivated technicians to improve skills, productivity, and adherence to SOPs.
- Delegated tasks efficiently and maintained accountability for team performance.
- Coordinate and perform Routine, Preventive & Breakdown maintenance jobs of rotary equipment as well as stationary equipment.
- Worked at Centrifugal Pumps and positive Displacement Pump
- Mechanical seal installation (both cartridge and component, single and double)
- Coupling installation and removal (almost all types)
- Bearing removal and installation (both plain and antifriction)
- Manage and maintain Daily Progress Reports, as well as machine history and records.
- Identifications of critical equipment & development of PMS of every critical equipment.
- Prepare Bill of Material as Per Provided Drawings.
- Prepare MR (material Requisition) as Per BOM.
- Hydro Testing of Valves.
- Supervision of plant execution activities like commissioning of centrifugal and reciprocation pumps, water flushing chemical cleaning leak testing of lines and vessels.
- Preparing daily progress reports, job lists and check lists.
- Studying BFD, PFD and PID.
- Troubleshooting of mechanical, pneumatic and rotating equipment.
- Enforce strict adherence to workplace safety standards, SOPs, and statutory regulations.

PERSONAL PROFILE

- Passport No : HC0845071
- Nationality : Pakistan
- DOB : 12/03/1996
- MaritalStatus : Single
- Religion : Islam
- Language : Urdu, English,

REFERENCE:

- Available