

MUBEEN

MECHANICAL ENGINEER

JUBAIL, KSA

EMAIL: smmubeen4004@gmail.com

MOB:0552861634

CAREER OVERVIEW

Dynamic and results-driven Mechanical Engineer with expertise in mechanical maintenance, commissioning, and troubleshooting of industrial equipment. Over the years, gained hands-on experience in rotating machinery, pipelines, pumps, gearboxes, and conveyor systems across CSP power plants, crusher plants, and industrial facilities. Proficient in preventive and predictive maintenance, equipment alignment, vibration analysis, and troubleshooting of hydraulic & pneumatic systems. Skilled in shutdown maintenance, spare parts management, and technical documentation while ensuring compliance with HSE standards and industry regulations. Adept at collaborating with cross-functional teams to optimize plant performance, minimize downtime, and enhance equipment reliability.

QUALIFICATION

- **PG DIPLOMA IN OIL AND GAS ENGINEERING – SMECLAB COCHIN, INDIA**
- **B-TECH MECHANICAL ENGINEERING- COCHIN COLLEGE OF ENGINEERING, INDIA**
- **HIGHER SECONDARY- GHSS KAYANNA, INDIA**
- **HIGH SCHOOL- SALAFI HSS, INDIA**

GREEN DUBA INTEGRATED SOLAR COMBINED CYCLE POWER PLANT

DESIGNATION: Mechanical supervisor

TENURE: JUNE 2023 TO PRESENT

COMPANY: INITEC ENERGIA

DUTIES & RESPONSIBILITIES

- Ensure correct installation of parabolic trough collectors, heat transfer fluid (HTF) pumps, heat exchangers piping, and valves.
- Led the installation, alignment, and commissioning of HTF pumps and tracking systems.
- Directed HTF system startup, ensuring flawless flushing, leak testing, and performance optimization.
- Conducted precision alignment and balancing of rotating equipment using laser/dial indicators.
- Performed vibration analysis, thermal expansion monitoring, and system integrity checks.
- Supervised pipeline installation, hydrostatic testing, and flushing to ensure leak-free operations.
- Ensured proper pipe support, expansion loop installation, and stress analysis for thermal stability.
- Spearheaded preventive & corrective maintenance of pumps, solar system, valves and heat exchangers,
- Optimized solar tracking system calibration and ensured actuator reliability.
- Diagnosed and resolved HTF leaks, pump failures, and gearbox malfunctions to minimize downtime.
- Led steam turbine system inspections, ensuring peak efficiency of condensers and reheaters.
- Enforced strict compliance with LOTO, OSHA, ASME, and plant safety protocols.
- Managed work permits, risk assessments, and job safety analysis to ensure a safe work environment.
- Supervised pump foundation grouting, soft foot correction, and alignment verification.

- Oversaw pump impeller, mechanical seal, and bearing inspections for optimal performance.
- Conducted pipeline pigging, chemical cleaning, and corrosion prevention measures.
- Strategized spare parts inventory management, optimizing stock levels and procurement.
- Developed maintenance strategies, SOPs, and advanced troubleshooting procedures.
- Delivered detailed technical reports, root cause analyses, and performance evaluations.
- Collaborated with DCS operators for real-time system monitoring and rapid issue resolution.
- Trained and mentored technicians in alignment, lubrication, and mechanical troubleshooting best practices.

Maaden phosphate hazm-jalamid

DESIGNATION: Maintenance Engineer

TENURE: DEC 2019 TO MARCH 2023

COMPANY: AL HAMAD

DUTIES & RESPONSIBILITIES

- Supervised the maintenance and repair of vibrating screens, crushers, and conveyor systems.
- Conducted troubleshooting and fault analysis on crushers, feeders, and material handling equipment.
- Managed preventive and corrective maintenance of bearings, gearboxes, and drive systems.
- Oversaw chute fabrication, wear plate replacement, and structural modifications for efficiency.
- Performed alignment and balancing of rotating equipment to minimize vibration and downtime.
- Supervised conveyor belt replacement, tracking, and roller inspections to ensure smooth operation.
- Led hydraulic and lubrication system maintenance for crushers and screening equipment.
- Implemented safety measures and ensured compliance with Maaden's HSE policies and procedures.
- Conducted root cause failure analysis (RCFA) and implemented corrective actions to enhance reliability.
- Managed spare parts inventory, procurement planning, and coordination with suppliers.
- Prepared maintenance schedules, reports, and technical documentation for plant operations.
- Collaborated with operations and control room teams to optimize crusher performance.
- Monitored wear patterns on crusher liners and recommended replacements for optimal efficiency.
- Supervised shutdown maintenance activities, ensuring minimal downtime and effective execution.
- Provided training to technicians on equipment maintenance, lubrication, and troubleshooting best practices.
- Conducted thermographic inspections to detect overheating issues in mechanical components.
- Inspected and replaced screen mesh and crusher jaw plate to maintain output efficiency.
- Ensured proper belt tensioning and pulley alignment to prevent belt slippage and failures.
- Supervised dust suppression system maintenance to reduce environmental impact and equipment wear.
- Reviewed and updated maintenance procedures to enhance equipment lifespan and reliability.
- Coordinated with vendors and OEMs for technical support and spare parts procurement.
- Developed predictive maintenance strategies using vibration analysis and oil condition monitoring.
- Assisted in commissioning new equipment and modifications to improve plant performance.
- Led emergency breakdown repairs to minimize production losses and restore operations quickly.

DESIGNATION: COMMISSIONING SUPERVISOR

TENURE: OCT 2017 TO NOV 2018

DUTIES & RESPONSIBILITIES

- Tracing the flow lines vessels and make sure as per the P&ID
- Punch list preparation and marking as per P& ID.
- Flushing the flow lines with water
- Blowing (Air drying) of the flow lines
- Card board blasting of the lines.
- Hydro testing of the flow lines.
- Vessel cleaning & inspection.
- Functional testing of the running equipment's.
- Purging of the flow lines with Nitrogen.
- Chemical cleaning of the compressor section lines.
- Mechanical no load test of the Compressor & Pumps.
- Lube oil flushing of the compressor.
- Following scope of work (SOW) and all kind of Work Permit Systems, Strictly and Carefully.
- Stoke check of control valves (Cause & Effect) and communicate with control room
- Following Start-up and Shut-down Procedures as per Requirements
- Lockout& Tagout as per operation

SKILLS AND TECHNICAL KNOWLEDGE AREAS

- **Mechanical Maintenance & Troubleshooting** – Expertise in diagnosing and resolving faults in rotating equipment, conveyors, pumps, and crushers.
- **Equipment Alignment & Balancing** – Skilled in laser and dial indicator alignment of pumps, motors, and gearboxes.
- **Vibration Analysis & Condition Monitoring** – Experience in monitoring equipment health using vibration analysis and thermography.
- **Preventive & Predictive Maintenance** – Planning and executing maintenance schedules to enhance equipment reliability.
- **Piping & Pipeline Systems** – Proficiency in pipe installation and hydrostatic testing
- **Fabrication & Welding** – Familiarity with sheet metal fabrication, structural modifications, and welding processes.
- **Gearbox & Bearing Maintenance** – Inspection, lubrication, and replacement of bearings, gears, and seals.
- **DCS & SCADA Operations** – Basic knowledge of Siemens PCS7 and schnider for plant monitoring and control.
- **Spare Parts & Inventory Management** – Ensuring optimal stock levels and procurement for maintenance activities.
- **Safety & Compliance** – Well-versed in LOTO, HSE regulations, and risk assessments in an industrial environment.
- **Technical Documentation & Reporting** – Preparing maintenance reports, failure analysis, and SOPs.
- **Shutdown & Emergency Maintenance** – Experience in rapid troubleshooting and execution of critical maintenance tasks.
- **Pump & Valve Overhauling** – Skilled in dismantling, inspecting, and reassembling pumps
- **Root Cause Failure Analysis (RCFA)** – Identifying and mitigating failure risks to improve equipment life cycle.

PERSONAL DATA

DATE OF BIRTH 23-03-1995
SEX MALE
NATIONALITY INDIAN
MARITAL STATUS MARRIED
LANGUAGES MALAYALAM, ENGLISH, HINDI & ARABIC

DECLARATION

I, hereby declare that all the details and particulars furnished above Are correct and to the best of my knowledge.

PLACE: JUBAIL, KSA

MUBEEN SM