MD SHADAB KHAN

ELECTRICAL AND ELECTRONICS ENGINEER
5+ Years experience in technical department
Oil and gas company
Address:- Vishunpur Jagdish ,Muzaffarpur, Bihar, 843118, India
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Summary

Experienced Electrical Engineering with 5+ years of proven expertise in installing, troubleshooting, and maintaining electrical systems. Adept at identifying and resolving complex electrical issues, improving system efficiency, and ensuring compliance with safety regulations. Highly skilled in preventive maintenance, emergency lighting testing, and control panel maintenance. Strong attention to detail, adaptability, and a pro-active attitude enable me to handle multiple tasks in a fast-paced environment effectively. Proficient in English and Hindi. and Guilds Electrical Supervisor Certification. Proud of leading a successful system upgrade project and achieving outstanding client satisfaction. Excited to contribute to your team's success and enhance system performance through my technical skills and knowledge.

Educations

I am proud to have been awarded a Bachelor of Engineering in Electrical and Electronics with first-class honours.

Experience

Qatar Fuel Company (WOQOD)

- **Position:** Electrical and Electronics Foreman (Contractor-based)
- **Duration:** July 07, 2022 – Present
- **Location:** Qatar

Easley Engineering Co.

- **Position:** Electrical Supervisor
- **Duration:** January 2020 – May 2022
- **Location:** Gujarat, India

Work Experience

MAINTENANCE OF SWITCHGEARS AND PROTECTION (SIEMENS AND ABB)

- **Medium Voltage Switchgears and Realy**
- **MSP**
- **Contactor Relay 500**
- **Overload Relay (Thermal)**
- **3RV29**
- **3RB25**
- **NXAIR – (H,C,M)**
- **SF6**
- **ACB**

1. General Maintenance

- Check the tightness of fixings and fastenings, especially at terminals for conductors and copper connection joints.
- Ensure internal cleanliness and inspect the condition of insulation.
- Test the operation of circuit breakers and handle mechanisms.
- Verify the integrity of mechanical interlocks.
- Inspect weather seals and gaskets on doors, ensuring they are in good condition.
- Check the condition of protective coatings and signs of corrosion.

2. Detailed Inspections

- Inspect insulations for brittleness or discoloration, which may indicate an overheated connection that needs attention.
- Ensure tight connections on all cables and inspect control wiring for wear or damage, replacing wires where necessary.
- Withdraw all draw-out components and clean according to circuit breaker manufacturer recommendations.
- Clean air filters on vents and follow the maintenance instructions provided for individual devices.
- Inspect indicating devices such as mechanical 'ON' and 'OFF' indicators and semaphores to ensure proper operation.
- Verify the correct operation of interlocks and padlocking devices, making any necessary adjustments.
- Exercise circuit breakers manually to keep contacts clean and ensure the proper functioning of operating mechanisms.

Cathodic Protection Maintenance Testing

Performed Routine System Inspections

- Regularly carried out cathodic protection system inspections to ensure optimal performance. These checks were conducted every two to four years, ensuring all components, such as anodes and wiring, were functioning correctly and identifying any signs of corrosion or failure.

Conducted Pipe-to-Soil Voltage Potential Tests

- Performed pipe-to-soil voltage tests using a copper sulphate half-cell to monitor protection levels. Ensured that readings stayed above 0.85 volts to prevent pipe corrosion, and took corrective measures if readings fell below 0.80 volts.

Monitored Anode Voltage Output

- Assessed the voltage output of the anodes (typically 1.4 to 1.6 volts) to ensure effective protection. Addressed low voltage readings and potential system malfunctions by checking for breaks in the wiring or damaged connections.

Checked Continuity and Wiring Integrity

- Used ohmmeters to test for continuity throughout the system, ensuring it acted as one continuous circuit from the riser to the last buried joint. Investigated and resolved wiring issues, such as broken wires or faulty connections, to maintain system integrity.

Analysed and Adjusted Current Flow

- Monitored the current flow from anodes to the pipe, ensuring it met the design requirements (between 5mA to 300mA). When necessary, adjusted the system by adding resistance to optimize the life of the anodes and ensure efficient operation.

Checking and Maintaining Electric Motors

1. Inspect Internal Switches

- Regular attention helps extend switch life. Use fine sandpaper to clean contacts, ensure sliding members on shafts move freely, and check for loose screws.

2. Monitor Load Conditions

- Regularly check the driven load for any signs of increased friction, which can gradually overload the motor. Monitor motor temperatures and use properly rated fuses or overload cutouts for protection.

3. Lubrication

- Follow manufacturer guidelines for lubrication. A motor that runs frequently requires proportionally more lubrication. Ensure adequate lubrication without overdoing it.

4. Clean Commutators

- Regularly clean commutators, ensuring they remain free of dust and oil. Wipe with a clean, dry cloth or a solvent that does not leave residue.

5. Replace Worn Brushes

- Inspect brushes regularly and replace them as needed. Always ensure brushes are returned to the same axial position after inspection.

Electrical Transformer Maintenance

1. Monitor Transformer Oil Levels

- Regularly check oil levels in oil-immersed transformers to prevent overheating. Oil cools the transformer, and insufficient oil can cause the windings to overheat.

2. Check Breather Silica Gel

- Inspect the silica gel for colour changes, which indicate moisture absorption. Replace the gel as needed, following manufacturer recommendations.

3. Cooling Fans and Oil Pump Inspection

- Ensure cooling fans and oil pumps are functioning properly, especially in hot conditions. Check for obstructions like plastic bags and inspect fan blades for damage and cleanliness. Ensure the fan rotates in the correct direction.

4. Monitor Transformer Temperature

- Regularly check and record temperature readings. Pay attention to the maximum temperature red pointer for signs of overheating.

5. Inspect Radiators

- Check radiators for obstructions such as bird nests, which can block airflow and affect cooling efficiency.

Safety & Personal Protection

1. Follow company safety regulations, labour laws, and management directives.
2. Attend toolbox meetings to establish the scope of work activities, including safety requirements (e.g., PPE, work permits, special tools, and materials).
3. Comply with all safety rules, remain vigilant to hazardous situations, and practice good housekeeping by keeping the work area clean and tidy.
4. Report any unsafe conditions and have sound knowledge of company safety policies. - Always perform tasks with appropriate precautions.

Permit Types

- Cold Permit
- Hot Permit
- Vehicle Permit

Lockout/Tagout (LOTO) Safety Procedures

- Prepare for shutdown
- Notify all affected employees of the equipment involved.
- Shut down and isolate the equipment from hazardous energy sources.
- Dissipate residual energy and apply lockout or tag-out devices as necessary.

IEC Intrinsically Safe Electrical Systems

- Ensure compliance with typical ATEX and IECEx markings.
- Follow safety guidelines for intrinsically safe systems, including proper temperature control and device protection.

Languages

- English
- Hindi / Urdu

Passport Details

- **Passport No:** U418386
- **Date of Issue:** 24/09/2020
- **Date of Expiry:** 23/09/2030
- **Country:** India