MD IRMAN ANSARI

Electrical Engineer | Projects, Maintenance & Reliability

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Summary

Results-driven Electrical Engineer with 10+ years of experience in electrical project execution, industrial equipment maintenance, installation, inspection, testing and commissioning, power distribution, and contractor coordination. Experienced in leading a 20-member cross-functional team, maintaining 99% quality compliance, coordinating preventive maintenance, and resolving electrical and equipment-related issues. Proficient in SLD and electrical drawing interpretation, panels and distribution systems, motors and pumps, cable trays, wiring, earthing, BOQ preparation, RCA, CAPA, electrical safety, and technical documentation.

Core Skills

Electrical Project Execution: Site execution, equipment installation, drawing & specification review, inspection requests, testing & commissioning support, progress & contractor coordination.

Power Distribution & Panels: LT/HT distribution awareness, electrical panels, PCC, MCC & distribution boards, breakers, MCBs & MCCBs, contactors & relays, motor starters & control circuits.

Electrical Drawings & Design Support: Single-line diagrams (SLD), schematics, layout interpretation, load assessment, cable selection concepts, cable trays & conduits, earthing & lighting systems.

Planning & Documentation: BOQ preparation, material verification, measurement & progress records, technical reports, preventive maintenance schedules, vendor & subcontractor coordination, as-built documentation support.

Electrical Maintenance & Reliability: Preventive maintenance, breakdown maintenance, corrective maintenance, electrical fault investigation, RCA, downtime reduction, equipment history & records.

Motors, Drives & Utilities: Industrial motors & pumps, PLC interface awareness, VFD drive fundamentals, DG & utility coordination, troubleshooting support, equipment inspection.

Testing, Quality & Safety: Electrical testing & commissioning support, QA/QC inspection, RCA & CAPA, SOPs & work instructions, electrical isolation & LOTO awareness, permit-to-work & PPE compliance, audit documentation.

Leadership & Improvement: 20-member cross-functional team leadership, stakeholder coordination, production planning, inventory control, training and task allocation, Lean improvement practices.

Experience

Electronics Corporation of India Limited (ECIL)

Hyderabad, India

Technical Officer | Junior Technical Officer

Nov 2018 – Present

- Earned promotion from Junior Technical Officer to Technical Officer, taking on expanded responsibility for production equipment, quality assurance, preventive maintenance, team leadership, and material coordination.
- Led production and quality operations, achieving 99% compliance with STQC/SQC requirements through structured inspections, audits, and process controls.
- Implemented preventive maintenance strategies and coordinated equipment troubleshooting, improving reliability and reducing operational downtime by 15%.
- Directed a 20-person cross-functional team and improved technical issue response time by 30% through work planning, training, escalation, and coordination.
- Developed SOPs, work instructions, inspection checklists, and technical documentation that reduced assembly errors by 20% and strengthened execution consistency.
- Worked with R&D; and Procurement to review technical specifications, validate electrical and equipment material requirements, and reduce material waste by 20% using Lean practices.
- Managed equipment materials, components, spares, inventory records, cycle counts, and physical audits to eliminate inventory shortages and strengthen accountability.

Hydro Projects Execution

India

Site Engineer

Apr 2015 – Oct 2018

- Supervised on-site electrical and electromechanical equipment installation and inspections across hydro projects, ensuring adherence to approved technical and safety requirements.

• Reviewed layouts, installation requirements, material availability, and site conditions before execution and coordinated technical clarifications with project stakeholders.

• Coordinated subcontractors, suppliers, and site teams to align manpower, materials, equipment, and milestone schedules.

• Monitored installation quality, supported testing and commissioning activities, resolved site issues, and maintained inspection and progress documentation.

• Promoted safe handling of electrical tools, equipment, and site resources while protecting schedule and quality objectives.

Selected Electrical & Automation Projects

PLC Motor Control Simulation Project: Built and tested an OpenPLC-based motor-control workflow covering start/stop logic, electrical interlocking, overload and stop conditions, status monitoring, and repeatable functional testing.

Automated Conveyor Control: Created a PLC-based conveyor control simulation with sensor-driven sequencing, motor operation, interlocks, safe stop conditions, and troubleshooting-oriented status logic.

Education & Certifications

Aryabhatta Knowledge University — **Patna, India**
B.Tech. in Electrical & Electronics Engineering • 73.55% — 2010 – 2014

Jharkhand Academic Council, Ranchi — **Dhanbad, India**
Higher Secondary • 55% — 2005 – 2007

Jharkhand Academic Council, Ranchi — **Ranchi, India**
Senior Secondary • 61%

Executive Diploma in Engineering Management – Project & Operational Leadership — Certification
Professional program focused on project execution, operational leadership, and team management.

Post Graduate Diploma in Computer Application — Diploma