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SUMMARY

Assistant Manager with extensive experience in electrical systems, specializing in power system, switchyards, and substations up to 66 kV. Skilled in project management and team collaboration, ensuring compliance and operational efficiency. Proven track record in driving complex projects at Mahindra Swaraj and Hindalco Industries. Seeking to leverage expertise in a leading technology and engineering firm focused on innovation and sustainability.

SKILLS

- Power System Maintenance
- Project Management
- Electrical Equipment Installation
- Testing & Commissioning
- Electrical maintenance
- Safety compliance
- Technical documentation
- Data analysis
- Scheduling and planning
- MS Office
- MATLAB
- SAP/ ERP
- PLC - Allen Bradley
- SCADA
- DCS- Centum VP
- MS-EXCEL, Power BI
- GenAI- Google Cloud, Gemini
- MS PPT
- SQL

EXPERIENCE

ASSISTANT MANAGER, 02/2024 - 04/2025

Mahindra & Mahindra Swaraj division, Mohali, Punjab

- Maintenance of Utility, General Electrical, 66KV MRS, AIS & GIS Substation, 11/0.415KV distribution system maintenance.
- Implementation of safety protocols & ensuring compliance with IEEE and OSHA standards.
- Daily maintenance of 66KV switchyard, 11 KV & 415V substations, including routine inspection and repair of up to 8 MVA Transformer, ensuring 99.9% uptime.
- Managed maintenance of General Electrical Maintenance, Project planning, Erection and commission of Utilities.
- Managed Preparation of BOM, RFQ & Procurement of utility electrical supply & services.

- Managed general electrical maintenance of Light machine shop, Heavy Machine shop & Heat treatment, including installation of new projects, machines like Hobbing, VMC, HMC, induction hardening machines.
- Efficiently managed Capex for electrical infrastructure projects, handling budgets exceeding ₹2 crores, ensuring cost-effective planning, procurement and project execution.
- Developed engineering documentation & diagnostic procedures, JSA, SOP & HIRA. Ensure smooth execution of internal & External Audits.

ASSISTANT MANAGER, 01/2021 - 07/2023

Hindalco Industries Limited, Dahej, Bharuch

- Handled Daily maintenance, upliftment jobs and overseen various projects, Critical Breakdown. Prepared PM checksheets, Inventory Control & one time job planning, 45-50 lac R&M budget handling with saving target 20%.
- Preventive & Condition based Maintenance & troubleshooting of LT motors(415V), Rectifier Transformers & Distribution Transformer(11KV)-overhauling, validation of SAT with FAT.
- Ensured the reliability and availability of the of electrical equipment's like HT Control Panels, DC Battery Sets & Battery Chargers, 11KV & 6.6KV switchboards & 415V PCC/MCC.
- Annual overhauling, site testing 1000A, 800A CB & all Switchgears.
- Planning & execution of jobs for FY-23 Major shutdown in Refinery- performed pre-assessment, defined maintenance scope based on history sheet of equipment. 2 Rectifier transformer, 2 Rectifiers upgradation. 40 LT motors overhauling & high efficiency motors installation, collaboration with O&M.
- PLC & HMI troubleshooting & plant startup.
- Collaborated with OEM in AI - ANN based Copper plate defects detection system installation under industry 4.0 initiatives.
- Developed engineering documentation detailing system requirements and diagnostic procedures, JSA, SOP & HIRA.
- Rolled-out the frequency of documentation - ISO standards.

EDUCATION

NIT Durgapur, Durgapur, West Bangal, 07/2020

Electrical Engineering

GPA: CGPA- 8.18

- Participated in the Robotics workshops, Robotics event.
- Member of NSS at NIT Durgapur.

Royal Academy SR. Sec., Jaipur, Rajasthan, 05/2016

XII: Senior Secondary Education

GPA: 84.50%

Adarsh Vidhya Mandir, Ambabadi, Jaipur, Rajasthan, 05/2013

X: Secondary Education

- 83.50%

LANGUAGES

- English, Professional Working Proficiency
- Hindi, Native or Bilingual Proficiency

DCS- CENTUM VP

- DCS Centum VP, gaining hands-on experience in distributed control system architecture, process control loop tuning, alarm management, and system troubleshooting, developed skills in operator interface navigation, control logic configuration, and enhancing process automation efficiency

PROJECTS

1. Control and relay panel replacement – 66/11 kV switchyard and substation Mahindra and Mahindra Swaraj Division, Mohali | (Jul 2024 – Dec 2024)

Led the replacement of legacy Control & Relay (C&R) panels for the 66/11kV switchyard and 415V substation. Integrated numerical relays for transformer protection, feeder control, and busbar fault isolation.

Coordinated with OEMs for panel design, wiring schematics, I/O mapping, FAT, and SAT activities.

Improved system reliability, reduced fault response time, and ensured adherence to IS/IEC standards.

Executed a seamless switchover with zero unplanned downtime, and prepared all final technical documentation.

2. AIS 415V substation modernization – switchgear upgrade project (1.2 Cr), Mahindra & Mahindra Swaraj Division, Mohali | (Jul 2024 – Dec 2024)

Successfully upgraded 415V substation infrastructure from MDO to EDO ACBs, with enhanced safety and efficiency, and executed procurement, planning, installation, and commissioning of modern AIS panels.

Ensured compliance with safety protocols and tested relay coordination and breaker settings.

3. Rectifier replacement during the copper refinery shutdown, Hindalco Industries Ltd., Dahej | (Apr 2023 – Jun 2023)

Led the replacement of aging rectifiers supporting 4 MVA & 8MVA rectifier transformers, managed installation, alignment, pre-commissioning checks, and integration with existing control systems, and delivered the project safely within the planned shutdown window, improving DC process efficiency.

4. DC power consumption optimization – Copper refinery Hindalco Industries Ltd., Dahej | (Aug 2021 – Dec 2021)

Conducted in-depth analysis of excess DC power usage using SCADA, MIS, and operational logs.

Identified losses from electrode misalignments, loose connections, and grounding issues, implemented improved preventive maintenance, busbar inspection schedules, and real-time tracking matrices, achieved an estimated 2-3% reduction in DC energy use, with measurable cost savings, and replicable practices for other units.

5. Shed lighting energy optimization: induction to LED retrofit at Mahindra & Mahindra Swaraj Division, Mohali | (Aug 2024 – Nov 2024)

Executed an energy efficiency project, replacing 500 units of 150W induction lamps with 100W Wipro LED lamps across the machine shop.

Achieved significant power consumption reduction and improved lumen output, with lower maintenance demands.

Conducted load analysis, vendor selection, ROI calculation, and project planning, ensured safe dismantling of legacy lamps, and compliance with electrical safety protocols during LED installation, contributed to long-term operational savings, and supported the company's sustainability and energy conservation goals.

6. Retrofitting of 4 MVA & 8 MVA rectifier transformer, Hindalco Industries Ltd., Dahej (Apr 2023 – Jun 2023)

Executed the retrofitting of a 4 MVA & 8 MVA rectifier transformer during the planned refinery shutdown, and coordinated with OEMs for design validation, inspection, and testing, and improved operational reliability and extended asset life through modernized insulation and connection upgrades.