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Date of Birth: 20st June, 1981

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ELECTRICAL MAINTENANCE AND PROJECT PROFESSIONAL-

PROFILE -

Career enriching and extensive experience in Execution, Management of Industrial Projects. Power system network and Maintenance.

Senior Electrical professional with 21 years of comprehensive industrial experience in installation, maintenance and lifecycle **management of HV/MV/LV infrastructure. (HV / MV Switchgears. Outdoor- Indoor Substations, Power Transformers, CB Panels**, **Metering & Protection Relaying**, **APFC)**. Proven in modern fault-finding techniques using advanced monitoring and diagnostic tools to ensure stability and energy efficiency. Power Quality Analysis, Harmonics Mitigation, and Load study (ETAP). Handled **maintenance of switchgears and power transformers, with a proven track record in enhancing lifecycle, power quality and implementing Energy conservation / Saving strategies**. Adept at managing Annual Maintenance Contracts (AMC) and ensuring network reliability through Predictive / preventive maintenance. Fault analysis with RCA and **Sequence of Events (SOE)**.

CORE COMPETENCIES –

- **Electrical,** Electronics & Mechatronics Maintenance, to ensure smooth Operations. Condition monitoring & Recording, Tracking for Reliability. Preventive & Breakdown Maintenance
- **Project Management** (Greenfield & Brownfield) – Erection, Commissioning, Testing &Trials.
- **Substation Assets:** HV/MV Switchgears, Power Transformers, Circuit Breakers, HV/LV Panels, Relaying.
- **Operational Stages:** Installation, Pre-commissioning Testing, and Final Commissioning, continual in operation.
- **Maintenance & Reliability:** Condition Monitoring, Thermography, IR, Oil Analysis, and Troubleshooting.
- **Power Systems:** Power Quality Analysis, Harmonics Mitigation, and Load Study, PF improvement, Energy Saving
- **Management:** AMC Oversight, Spare Parts Inventory, and Safety Compliance (HSE).
- **Protection & Control:** Numerical Relays (Distance, Differential, Overcurrent), CT/PT, CB and Relay Coordination.
- **Panels;** HV/MV Switchboard Maintenance, MCC/PCC panels, and APFC Systems, UPS, DG Sets, Load distribution.
- **Power Quality:** Power Factor Correction and improvement, Harmonics suppression and Surge Protection.
- **Diagnostics:** Modern why-why Analysis, Thermal Mapping. FDA analysis. Root Cause Analysis (RCA). Failure Analysis, Incident Investigation Reports and Mitigation Action plan (CAPA)
- **AMC & Spares :** Vendor & Contractor Management, Spare Management, 5S Housekeeping and store spares
- Hands on Experience of Instrumentation & Sensors Mechatronics & Mechanical Interface & Electrical drives of Handling / Marking / Packing/ Labeling Robotics systems in tube Rolling Mills.

KEY ACHIEVEMENTS -

- Reduced **energy consumption by 8–10% through Energy audits and optimization**. **(ETAP & Energy Efficient devices).**
- Improved plant uptime to >95% in critical production areas.(TBM, MTTF, MTTR). Developed and mentored high-performing maintenance teams and PM plans.
- Maintained Power Factor consistently above **0.99**, eliminating utility penalties and reducing KVA demand charges.
- Developed comprehensive preventative maintenance schedules (PMS) that extended asset life cycles of outdoor switchgears. **DGA tests, BDV tests and oil filtrations**. Authored technical reports on network health and energy consumption trends for executive review
- Implemented Nitrogen (N2) injection and fast oil drain line with soak pit system for quick arrest of fire / flash in power transformer in case of emergency / if catches fire.
- Provision of smart locks with fireproof doors and CCTVs to prohibit the unauthorized entry in high voltage premises
- Managed the routine and PM maintenance of MV/HV switchgears, ensuring 99.9% uptime for power networks.
- Executed specialized testing on power transformers: IR (Megger), SFRA, Tan-Delta and Dissolved Gas Analysis (DGA).
- Diagnose/ identify faults in CT/ PT, LA, Protection relay panels,SF6 circuit breakers and vacuum interrupters. To reduce mean time to repair.
- Standardized & co-ordination of protection relaying settings ,achieved reducing in nuisance tripping by **30%**

- Utilized **Root Cause Analysis (RCA)** and **Sequence of Events (SOE)** logs from IEDs (Intelligent Electronic Devices) to pinpoint transient faults

INDUSTRIAL SAFETY –

- Implementation and continual improving of Industrial Safety Management Systems. EHS, EMS, OHSAS
- Fire Safety, Electrical Safety and Workplace Safety enhanced by Job Safety Analysis (JSA). Risk Assessment, and Mitigation Action plan
- Conducted Electrical & Fire safety Trainings & Internal Audits..
- Ensured compliance with Factory Act, Electrical Safety Rules, and ISO standards.
- Implementation of LOTO procedures, Work Permits,(PTW) SOPs, Risk assessments, JSA and safety drills.
- Trained employees on Electrical hazards, Emergency response, and ERP and fire safety.
- Achieved zero-accident milestones through proactive safety initiatives. Internal Safety Audits, & Compliance. Team Leadership & Training.

PROFESSIONAL EXPERIENCE-

1) JESCO- AMJ Group (KSA).
Maintenance Supervisor - Hot Mill-Electrical & Mechanical (from July-2022- July 2025)
Key Responsibilities

- Heading team of Shift Technicians and Shift Leaders. Reporting to HOD - Maintenance.
- Responsible for Breakdown Maintenance, Corrective Maintenance, development and implementation of Preventive & Predictive Maintenance Plans and standard Operating Procedures.
- Handling of Spare preparation and stock management. Efficient working of all equipment's of Hot rolling mill and HFS production line.
- Build up CAPA Reports, Incident Investigations, RCA and Corrective Action plan and Implementation.
- MV substation and Power Distribution Network, transmission and Distribution.
- Power Quality Management, Energy Saving Programs and Energy Conservation, PF improvement.
- HT/LT Panels , Transformers , Motors , Drives , Automation , PLC , SCADA , Utilities smooth , seamless working , and its Maintenance management.

2) ISMT LTD- BARAMATI
Was held Position As AVP - Electrical Maintenance- Hot Mill and Electrical Utility Section. (from Mar 2021- to- July 2022)

- Heading for Operation and Maintenance of Electrical EHV and Medium voltage Substations and switch gears. Handling power quality management and continual improvement,
- Leading for Energy Conservation Program, Power Saving and minimize the energy losses.
- Erection and Commissioning of additional 220 KV / 11 KV, 30 MVA Main Power Transformer with its all outdoor-indoor switch gears, operating, metering and protection panels.
- Involved in going project of ETAP and stage wise Relay Co -ordination from main receiver substation to LV- PCC / MCC panels.
- Handling Hot rolling mill Electrical Breakdowns, Preventive and Predictive maintenance effective and efficient planning with AMC, CAPA, RCA and TBM tools for continuous improvement.
- Working for improvement of maintenance planning with set budget and targets in planned Objectives Involved in APFC and stage wise Relay Co -ordination from main receiver substation to LV PCC/ MCC panels.

3) JESCO LTD (KSA) -
Maintenance Supervisor - Hot Mill-Electrical & Mechanical (from Nov 2011. To Nov2020)
Responsibilities Handled-

• Responsible for condition monitoring of Rolling Mill & HFS equipment's & machines and initiate advance maintenance action to prevent major breakdowns. • Responsible for Analyzing critical & major breakdown maintenance activity to reduce down time of machine and rendering support to develop new processes and Implementing in preventive & predictive maintenance schedules for improving the overall reliability and safety of plant equipment's & machinery.

• Responsible for mapping consumption pattern of spares and ensure availability of reasonable & critical spares to address maintenance calls. Managing indigenization & planning of spare parts and inventory control.

• Responsible for making Equipment's modifications and improvements and Implements Innovative energy saving ideas.• Responsible to make and Implementation CAPA reports ,TPM, NCR technical reports , Energy data reports , and correspondence with external agencies/Govt. for updated policies of rules and Regulations.

• Responsible for implementation of work p[ace safety in all aspects. Electrical Safety procedures and practices.

Technical Skills : HT/LT Distribution , Power and Distribution Transformers, Switchgears , DC & AC drives , AC/DC motors (Low, & Medium voltage),PLC's ,SCADA , Plant Automation , Process Automation and line set up, Industrial illumination, Power factor improvement (APFC) implementation, and Energy Conservation program with advanced technology. Managing Power and Distribution Transformers.

- Hands on experience in LV & MV Drives (ABB, SIEMENS, TELEMECHNIC with Drive Window & IBA/FDA analyzer); knowledge about Drive/Motor ID Run techniques, and interface with PLC's ; logic development.
- Relevant exposure in communication networks and configurations, i.e. Profi Bus & OFC communication, TCP/IP OR ETHERNET Communication Networks.

4) ISMT LTD. BARAMATI PLANT--Executive- Projects (Tube mill Technology) : August. 2007 to November 2011

- Entrusted with responsibility of Execution of capital project of seamless tube mill Plant reporting to Project EVP-Electrical (Engineering).
- Anchoring erection, testing & commissioning of equipment's, switchgears, Drives, Transformers, PCC/MCC Panels, motors, actuators, sensors and ensuring completion of project in minimum turnaround time effective resource utilization to maximize the output.

Projects Handled-

- Commissioning of PQF technology (SMS MEER Germany) Hot rolling seamless tube mill line Electrical set up in ISMT-Baramati.
- Commissioning of 220/11 KV substation complete bay with 25 MVA transformer and APFC Panels.

Key Responsibilities

- Efficiently performing entire range of project management activities including – conducting Project Feasibility study, Project planning, drawing cost estimates, defining project scope, deliverable & milestone, technical specifications, BOQ
- Instrumental in Erection and commissioning of 220 / 11 KV receiving and distribution substation including Power & Dist., Transformers from 2MVA to 30 MVA, SF6 Circuit Breakers, Vacuum C.B., OLTC & RTCC systems and Panels, Load Sanctioning, Approval of Drawings as per IE rule.
- Active member and project Leader (Electrical Section) for Erection and commissioning of PQF rolling Mill, Sizing Mill and pipe finishing line set up. Managed the responsibilities for Motors Testing, Cabling, PCC/MCC panels testing & commissioning, Drive panels testing and trials, LT/HT panels, Transformers testing and charge up,

Soft Skills : MS Project , MS Excel , Auto Cad , MS office, Microsoft Outlook

SCADA: Wincc, RS windows Viewer, Factory Suite (Siemens), Control Builder (ABB)
PLC: SIEMENS- S7 Simatic Manager, ABB Control Builder M-Professional, Allen Bradley 5/25
SAP: MM Module 4.7, ORACLE – Spares and Maintenance management
Tools: Power Quality Analyzers, IR-Megger, Relay Test Kits (Omicron), Thermography Imagers.
Software: Auto CAD Electrical, ETAP (Power System Analysis), MS Project.
Standards: National Electrical Code (NEC), IS / IEC 62271 -HV Switchgear, IS 2026 (Transformers).
Drives AC Drives, DC Drives (ABB, Siemens, Tele mechanic, Kakogawa, Mitsubishi)
Sensors: Temperature, Flow, Pressure, Level, Position / Speed, weight, length Measurement Sensors, & Laser

Achievements

- Successfully commissioned First ever PQF mill in India at total Project cost of INR. 320 Cr with Electric and Automation part accounting for INR. 105 cr.
- Visited CG Nasik, ABB Bangalore, UPT Bangalore, TELK Tamilnadu for technical discussions , training, Inspections Testing work.

PRECEDING ASSIGNMENTS

Aug'04 to Aug'07 with MHETRE Constructions, Baramati as Erection/Commissioning Engineer

Working as Erection/commissioning engineer, and responsible for 11/22/33 KV overhead transmission line and UG cabling and substation erection and testing of all equipment's and switch-gears as per IE rules and regulations. Handled responsibility of project estimation costing, scheduling, planning and execution

Aug'03 to Aug'04 with Dynamix Dairy Ind. Ltd., Baramati as Trainee Engineer

Handling yearly & monthly planning of preventive maintenance.
Maintaining records & reports of maintenance activities, equipment's history cards, energy consumption reports. Spares planning & readiness function with ORACLE.
- Planning shift activities, preventive & scheduled Maintenance.

ACADEMIC CREDENTIALS

2003 **B. Tech. (Electrical Engineering)** from Dr. B.A.T.U, Raigad with 65.51% and 1st Class.

2000 **Diploma in Electrical Engineering** from M. S.B.T.E., Jalgaon with 70.24% and 1st Class.

INDUSTRIAL TRAININGS

Organization: ABB, Bangalore, (Short Training of one Week)
Topic: VVFD Drives, Soft Starters, VFDs, Multi drive units.
Role: Learnt the process of installation, operation, technical parameter, troubleshooting, and maintenance
Others: Undergone industrial trainings from following organization:
220KV Grid Sub-Station, MSEB (Govt.) in 2002. & Thermal Power Station, MSEB (Govt.) in 2003.

PERSONAL DETAILS

Full Name --	SANDEEP SOPANRAO SAWANT
Date of Birth --	20th June, 1981
Address --	RAJYOG Bunglow, Plot No-55, Jijamatanagar, Tandulwadi Road BARAMATI- 413102
Languages Known --	English, Hindi, and Marathi
Passport No. --	R8291190
Current Salary -	As per Company Standard
Expected Salary -	Negotiable
Notice Period --	30 Days from date of Offer