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Saudi Council Engineering
(SCE)
Registration:1129265

COMPETENCIES & SKILLS

Analytical Thinking

Maintenance Management

Installation & Commissioning

Maintenance Activities

Testing Procedures

Cable Sizing

PLC/SCADA

Data Sheets

Troubleshoot Analysis

Material Management

Team Player

Quality Focus

Safety Regulations

Reports & Documentation

PRABAKARAN SELVARASU

SENIOR ELECTRICAL TECHNICIAN

Senior Electrical Technician with 13+ years of experience in Maintenance of Electrical systems up keeping, overhauling and investigating the issues for complex fixes. Keen ability to improve maintenance & troubleshooting activities at field, increasing efficiency and decreasing the need for re-engineering.

Experience in a wide variety of Commissioning, Maintenance and Operation activities. Provide proper support to operations during startup and plant shutdown, Involve in review of the field change proposals for process optimization.

Profoundly flexible expert with supervisory abilities in driving group for top-notch execution and objective accomplishment by process enhancements for more noteworthy effectiveness & efficiency.

Steep knowledge of the Following Systems:

PLC & VFD: Allen-Bradley, Siemens, ABB, Mitsubishi, Schneider, Delta and GE Fanuc.

115KV Switchyard: Lighting Arrestor, Current Transformer, Potential Transformer, SF6 Breaker, Isolator with Earth Switch & Isolator Without Earth Switch, Control & Relay Panel, RTCC Panel (Remote Tap Changer Control).

34.5KV/33KV/11KV Sub-Station: HT Panel of Up to 34.5KV, PCC (Power Control Center), MCC (Motor Control Center), HV & LV System, CT-PT Unit, Star Delta Starter, DOL Starter, Soft Starter, VFD, VCB, ACB, SF6 Circuit Breakers, Protection Relays.

Transformer: Up to 34.5KV/33KV/13.8KV/6.6KV/4.16KV/480V Power Transformer, 35MVA, 20MVA, 10MVA, 4.2MVA, 2MVA, Lighting Transformers up to 750KVA.

Switchgear: Up to 34.5KV, 33KV, 13.8KV, 6.6KV, 4.16KV ABB, Siemens, GE, Mitsubishi, Hyundai & Powell Metal-Clad / Metal-Enclosed.

Generator: Up to 2000 KVA MV and LV DG Set with Self-Excited Generator, Auto Synchronization Panel.

Motors: Siemens, ABB, GE, Fuji, WEG etc. 3 phase Induction Motors Up to 2000KW, 1450KW, 6.6KV, 4.16KV, 480V & Slip Ring Motors.

Panels: HT Panels (34.5KV, 33KV, 13.8KV, 11KV, 6.6KV and 4.16KV 1250A/800A), LT Panels (MCC, PCC, PDB, LDB, ELDB & APFCR etc.).

UPS: Up to 200KVA UPS with 3-Phase Input 480V & 3-Phase Output 220V, 110VAC Battery Bank (400Ah) & Battery Chargers.

Relays: ABB, Siemens, GE, and SEL 21(Distance Relay), 27(Under Voltage Relay), 32(Directional Power Relay), 47(Phase Sequenced Relay), 49(Thermal Relay), 50(Instantaneous Over Current Relay), 51(Ac Inverse Time Over Current Relay), 59(Over Voltage Relay), 67(Ac Directional Over Current Relay), 86(Lockout Relay), 87(Differential Protective Relay).

Planning & Organizing

Problem Solving Skills

On – Job Monitoring

MS – Office

Leadership

Emergency Response Player

Time Management

Interpersonal Communication

SAP System

Career Objective:

Seeking a suitable assignment in a petrochemical plant and on-site oil & gas, petrochemical, manufacturing, and engineering industries to enhance my technical skills for the organization.

EXPERIENCE

SENIOR ELECTRICAL TECHNICIAN *January 2025 – May 2025*

ABDULWAHAB MANSOUR ALMOALLAM SONS COMPANY

CLIENT: **ARAMCO & SABIC. (TESTING & COMMISSIONING) KSA**

LEAD ELECTRICAL TECHNICIAN *July' 2024 – November 2024*

ASIA PETROCHEMICAL LLC

CLIENT: **ASIA PETROCHEM LLC. (COMMISSIONING) UAE**

SENIOR ELECTRICAL TECHNICIAN *January'2018 – May 2024*

EXPERTISE CONTRACTING COMPANY

CLIENT: **SABIC PETROCHEMICAL INDUSTRIES, SAUDI ARABIA**

SR. ELECTRICAL TECHNICIAN *January'2015 – November'2017*

VOITH INDUSTRIAL SERVICES INDIA PVT. LTD

CLIENT: **DAIMLER COMMERCIAL VEHICLE INDIA PVT. LTD, INDIA**

ELECTRICAL MAINT TECHNICIAN *November'2011 – October'2014*

TVS GROUP

CLIENT: **TVS UPASANA ENGINEERING LTD, HOSUR IN INDIA**

Key Responsibilities & Nature of Work Includes

- **Support EHSS culture change and ensure compliance** with electrical codes and regulations and the company's safety performance, quality, and environmental standards, and all other company policies and procedures.
- **Receives assignments or work orders from** electrical supervisors and coordinates activities with other technicians and operators for solving problems on electrical equipment.
- **Attend breakdowns, identify faults and problem-solve** with minimal downtime in production, carry out diagnoses of faults, perform root cause analyses, and resolve problems.
- **Competent and skilled electrical person to** handle and operate, maintain, test, repair, replace, service, and store electrical equipment in electrical substations & utilities.
- **Working knowledge with refinery personnel to** obtain appropriate work permitting procedures such as LOTO, Safe Work, Confined Space, and Hot Work.
- **Read and interpret electrical single-line diagrams** (SLDs), schematics, and logic diagrams of an electrical network and electrical system.
- **Perform electrical maintenance activities to** ensure all job tasks are performed in a timely manner and with quality to achieve operational readiness and to operate with the highest level of safety and reliability.
- **Perform planned and corrective electrical maintenance** activities and surveillance in accordance with the relevant procedures and processes on electrical plant systems and components to ensure appropriate functionality.
- **Balance of Plant (BOP) electrical equipment Including** power transformers, switchgear (SWGR), protection relays, electrical motors, diesel generator sets, uninterrupted power supply (UPS), and DC chargers.

TRAININGS & CERTIFICATION

- Health Safety and Environment Induction.
- First Aid, Fire Fighting.
- Job Hazard & Analysis Training.
- Work Permit Receiver
- Electrical Switching
- OPITO Approved (BOSIET with EBS).

EDUCATIONAL QUALIFICATION

DIPLOMA • 2011 • KALINGA INSTITUTE OF TECHNOLOGY, ODISHA IN INDIA

Completed my Diploma in Electrical Engineering with First Class.

NCVT (NTC) • 2007 • THIAGARAJAR INDUSTRIAL TRAINING INSTITUTE, TAMILNADU IN INDIA

Completed my ITI (NTC) in Electrician with First Class.

PERSONAL DETAILS

Date of Birth: June 20, 1989

Languages Known: English, Tamil,

Hindi & Malayalam

Nationality: Indian

Marital Status: Married

PASSPORT DETAILS**Passport No.:** N7411953**Place of Issue:** Coimbatore
(India)**Date of Issue:** 30/03/2016**Date of Expiry:** 29/03/2026**TOOLS & INSTRUMENTS**
HANDALED

- ❖ Multimeter & Clamp meter
- ❖ Battery Impedance Tester
- ❖ Battery Analyzer
- ❖ Insulation Resistance Tester
Fluke 1507, 1550C,
Megger MIT515, MIT1025
- ❖ Turn Ratio Test- TTRU3
- ❖ Winding Resistance Analyzer
MTO330
- ❖ Fluke Power Quality Analyzer
- ❖ Contact Resistance Measure
(CRM)- LRM-10, DLRO-100,
DLRO-200
- ❖ CB Timing Test Kit- EGIL200
- ❖ TORCEL-890, 950
- ❖ Earth Tester
Megger-DET4TC2
- ❖ OMICRON CPC-100
- ❖ MRCT, CT Analyzer
- ❖ Fluke Micro Bath-6102
- ❖ BST-HVD18 Voltage Detector
- ❖ IMT-100 Multi Tester
- ❖ Fluke-805 Vibration Meter
- ❖ Fluke-724
Temperature Calibrator
- ❖ FLIR T530- Thermal Imager

- **Using testing equipment, including but not limited to** multimeters, insulation resistance testers, TTR-transformer turn ratio testers, DLRO-digital low resistance ohmmeters, EGIL-200, MOM2, CRM testers, voltage detectors, etc.
- **Understanding of interpreting and working from various** forms of project drawings such as P&IDs, SLDs, block diagrams, general arrangement drawings, vendor manuals, schematics, etc.
- **Carry out maintenance, diagnosis, and repair of electrical** automation and instrumentation of equipment applied by industrial motor controls, chemical feed systems, pump drives, water chillers, and AC units.
- **Inspect and Supervise Work Follow up on** such things as the installation, tagging procedure, punch list procedure, as-built procedures, vendor manual, etc.
- **Independently troubleshooting the electrical problems** and good knowledge of electrical & control systems.
- **Knowledge of refinery and petrochemical plant** operations and strong knowledge about hazardous area classification and the equipment used in such areas.
- **Lockout/Tag-out (LOTO) is a set of procedures** that are used to ensure that equipment or systems are shut down, inoperable, and de-energized prior to any maintenance or repair activity.
- **Perform troubleshooting processes on the** electrical systems and components to ensure issues are resolved correctly and in a timely manner.
- **Experienced in programming, wiring,** and troubleshooting of PLC platforms.
- **Support outage and/or the Emergency Response Organization** (ERO), as assigned, to ensure safe, reliable, and continued operations. This may require shift work/off-hours support.
- **Conducted regular inspections to identify potential** issues and solutions to control the equipment's failure.
- **Strong experience in electrical maintenance** in substations, having maintenance and troubleshooting expertise in electrical equipment such as distribution transformers of HV/MV/LV rating, MV/LV motors, HT panels, switchgear, MCC, PCC, and VFD.
- **Strong maintenance and troubleshooting knowledge** of Variable Frequency Drives (VFD/VSD), Soft Starters, Star & Delta, and DOL starters.
- **Strong knowledge of electrical testing to identify** the potential issues of insulation resistance tests, Hi-Pot tests, offline partial discharge tests, and thermal imaging scanners.
- **Documents work performed in the computerized** maintenance management system (CMMS) in SAP in order to build equipment history by creating, retrieving, and closing work orders.