

# Muhammad Rafiq

## Electrical Engineer

Saudi Arabia | +966-571566554,+966-503887508|engrafiq2008@gmail.com|linkedin.com/in/muhammadrafiq1|

Iqama status: Transferable |SCE:1202111 |

### Professional Summary

I am a highly accomplished Electrical Engineer with over 10 year's postgraduate experience in Operation & maintenance, facilities management, Project management, Testing & Commissioning and SAP PM Scheduled Jobs.

Demonstrate proven leadership in managing large-scale construction initiative, ensuring compliance With safety regulation while optimizing resource allocation & fostering a collaborative team environment.

Strong commitment to safety protocols, Hazard identification & risk assessment (HIRA) and Lockout/ Tag out (LOTO) procedures. Proficient in electrical testing procedures and national & international Electrical Standards (IEC, NFPA-70, NEC).

### Education

#### **B.S ELECTRICAL (power) ENGINEERING | COMSATS University, Pakistan.**

Final year Project: Design and Fabrication of an Automatic Load Tap Changer of a Transformer using Solid State Switching and Logic Control

### Certification & Trainings

- SAP H/4 HANA PM module, By Lucky learning university.
- Permit To Work Issuer, from Alliance Infinite LLC (USA).
- Level 3 Award in Quality Control .from HSE Academy Pvt Ltd.
- Compressor operation and Plant Room optimization at lucky cement conducted by atlas Copco Pakistan
- AutoCAD 2D and Electrical From IK education System Pakistan.
- NEBOSH international General certificate in occupation health and safety.

### Technical Skills & Abilities

- **Electrical Systems:** Power Distribution (MV/LV),Power plant, PV+BESS, Transformers , Motors (AC/DC), Motor Control Centers (MCCs), LV/MV Switchgear, MV XLPE Cables, Quality assurance and control, Health & Safety Management.
- **Instrumentation:** Sensors (Pressure, Temperature, Flow, Level), Temperature and Pressure Transmitters calibration.
- **Abilities:** Analytical Skills, Communication (Written & Verbal),Leadership & Supervision, Teamwork & Collaboration ,Problem- Solving, Time Management & Organization, Adaptability, Attention to Detail
- **Troubleshooting & Maintenance:** Fault Finding, Root Cause Analysis, Preventive Maintenance, corrective Maintenance.
- **Software:** AutoCAD Electrical, MS Office, MS Project Manager, SAP H/4 HANA PM module.

### Experience

#### **Electrical Engineer |L&T Construction,(Amaala utilities PPP Project at Central infrastructure site).Sep 2023-April 2026.**

##### **CORE RESPONSIBILITIES:**

- Monitoring the installation and erection of 165MWac Solar and 121MWac BESS.
- Supervise contractors to ensure electrical work is installed according to approved drawings, technical specifications, and international standards.
- Provide technical guidance to construction teams and solve field engineering problems.
- Supervision of the Installation of MV, LV switchgear, RMU and skid

- Erection and energization of BESS Transformer and PCS .
- Closely involved in the Installation and testing of 33Kv switchgear.
- Continuity test and HI pot test of LV, MV cables to ensure functionality.
- Monitoring the Auxiliary Transformer and auxiliary room panel installation.
- Prepare and update weekly/monthly progress reports for management.
- Closely involved in the Pre-commissioning of internal combustion engine (wartsila).

### **Deputy Manager |Lucky cement ltd Pakistan. Sep 2015-June 2023**

#### **CORE RESPONSIBILITIES:**

- O&M as well as Supervision of 102 Mw Wartsila based Power plant,
- Ensure load management and synchronism 50MW solar power Plant+ 15Mw Battery Energy storage system with main bus bar feeding the combine load to factory
- Troubleshooting and Schedule maintenance of all the Sf6 & vacuum MV Switchgears.
- Expertise in Testing and Installations of both LV Cables & MV XLPE Cables..
- Worked in the Setting of differential and Protections Relays.
- Complete Overhauling and expertise of LV Motors.
- Responsible for all the Engine & Alternators Supervision, Control and Process Instrumentations.
- Closely involved in installation of Photovoltaic panels and BESS.
- Auxiliaries Transformer monthly, Annually Corrective and Preventive Maintenances.
- Replacement of all defective temperature transmitter and pressure transducer.
- Routine and monthly based checking, calibration and alignment of Fire Alarms and Gas Detectors.
- Testing and Checking of Farthing & lightening protection system (Ground resistance and watering).
- Manage inventory of electrical spare parts and raise purchase requisition to ensure essential components are available.

#### **Languages.**

- English.
- Arabic.
- Urdu.

#### **Referees.**

Available On demand.