**ATIQ UR REHMAN**

**PROFICIENT ELECTRICAL ENGINEER**

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**SUMMARY**

* 10+ years of hands on experience in Electrical Systems, Erection, Testing, Commissioning, Energization, Maintenance, Operations, Planning and Project Management.
* **Specialties:** Power Networks, Systems of Highly Advanced Grid Stations, Substations and Power Generation Plants.
* **Industries:** Oil & Gas, Power & Energy, Building Facilities, and Cement.
* Bachelor of Electrical Engineering (Pakistan), Diploma in Project Management (Germany).

**ACHIEVEMENTS**

* 95% of projects’ tasks executed on time or earlier
* 92% project execution in line with Project Plan and design
* Zero major injury in all projects to date
* PKR 90 Million saved through execution of Nitrogen purging of MV Cable to dry moisture
* Appreciation Certificate from FLSmidth and LOESCHE based on remarkable performance
* Appreciation Certificate from Dalian East New Energy Development Limited for outstanding performance

**MAJOR PROJECTS**

* Network Study (Load Flow, Short Circuit, Harmonic Analysis & Relay Coordination), Pakistan Oilfields Limited.
* Up-gradation of 11 KV Power Network of process areas, including company residential colony, admin and water pumping station, Pakistan Oilfields Limited.
* Erection/Energization of (132/6.3 KV) GIS Grid Station at DG Khan Cement HUB Plant, Pakistan.
* Erection/Energization of **18 No’s** (6.3/0.400 KV) MV Substation at DG Khan Cement HUB Plant, Pakistan.
* 1 MW Solar Power Plant Installation, O&M at DG Khan Cement HUB Plant, Pakistan.
* Erection & Commissioning of 50 MW Coal Fired Power Plant and 10 MW Waste Heat Recovery Power Plant(WHRPP) at DG Khan Cement HUB Plant, Pakistan.
* Energization, Electrical Testing & Commissioning of Al Qouz Substation (132/33KV) NG SEC, KSA.
* Energization, Electrical Testing & Commissioning of Al Shabayn Substation (132/33KV) NG SEC, KSA.
* Erection, Testing & Commissioning of 30 MW Coal Fired Power Plant and 6 MW Waste Heat Recovery Power Plant(WHRPP) at Bestway Cement Limited, Taxila, Pakistan.
* Upgradation of 132 KV AIS Grid Station including power transformer (20/26 MVA) at Bestway Cement Limited, Taxila, Pakistan.

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| |  | | --- | | **TOOLS AND SOFTWARE** |  |  |  |  | | --- | --- | --- | | * ETAP * MS Project * AUTOCAD * MiCOM Studio | * PLC- Siemens * VFDs-ABB/Siemens * Scheneider LTMR * MV/LV Switchgear | * PROTEL 99 * Simocode– Pro C &V * DIGSI * HVAC/BMS | |  |  |

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| |  | | --- | | **SKILLS** |  |  |  |  | | --- | --- | --- | | * Power System & Distribution * Project Management * Maintenance & Strategic Planning * Power System Protection * Field Instrumentation * Strong Planning, Organizing and Integration Skills * Knowledge of problem-solving tools | * Testing & Commissioning * Local Control System & Design * MV, HV Scheme Checks * Technical Analysis & Troubleshooting * Teamwork * FAT/SAT | * Technical Reports Writing * Strong Communication & Presentation Skills * Contract Management * Training and Development * Problem Solver * Tendering and Bidding * Analytical Thinker | |  |  |

**WORK EXPERIENCE**

9/2019 – 4/2020 **Team Lead (Electrical) (Led and Managed a team of 15 including 2 Electrical Engineers)**

Pakistan Oil Fields Limited (Pakistan)

* Minimized excessive production loss or maintenance cost by 2% within 6 months through conducting regular technical evaluations of plant electrical equipment and related systems.
* Led Plant Root Cause Failure Analyses (**RCFA**) and condition based preventative maintenance to find solutions hence increasing customer satisfaction.
* Reduced accidental risks in the workplace by 5% in 6 months through implementing work safety standards and best practices on safety and loss control programs.
* Successfully led electrical activities from O&M side related to the implementation of any modification, including the activities related to the development of the design, installation and manufacturing of new and modified equipment.
* Increased team efficiency through preventive maintenance services and repairing of heavy machinery and equipment (transformers & motors) and ensured their functionality and prevented unforeseen damages. This reduced the man hours required to complete a project.
* Designed MV/LV network and procured MV/LV Switchgear for LPG Plant, Tank Farm and POL GAS area that enhanced reliability of system and decreased down time by 20% in 6 months
* Independently designed and procured Powerhouse Generator Control Panels scheme, including intelligent load shedding scheme, up gradation of Governor and AVR for achieving KPIs regarding down time of the plant.
* Attended the FAT/SAT of project deliverable.

2/2017 – 8/2019 **Deputy Manager Projects (Led and Managed a team of 50 technical professionals)**

DG Khan Cement Company- HUB Project (9000 TPD) –(Pakistan)

* Completed 95% of tasks on time or earlier and developed and improved highly hazardous electrical processes.
* Planned and monitored complete projects, and project execution was 92% in line with the project plan.
* Managed man-hours and initiated drive towards eliminating errors in procurement of items (MV/LV Switchgear for building facilities of Plant) to cut down the project cost by 15%.
* Efficiently executed Nitrogen purging of MV Cable to dry moisture caused by heavy rain at site which saved PKR 90 Million.
* Successfully executed erection, testing, and commissioning, scope included 132 KV GIS Model: F35 Make: GE, 2 x 31.5/40 MVA Power transformer, MV Switchgear, Model: Secogear, Unigear ZS1 with VD4 VCB & PIX, Make: GE, ABB and Schneider Electric.
* Installed, erected, executed, tested, commissioned and maintained systems of brands like MV, LV VFD made by ABB, Schneider Electric and Siemens.
* Conducted testing and commissioning of UPS and 110 VDC Charger System made by AEG and APC.

3/2016 – 1/2017 **Testing and Commissioning Engineer (Led and Managed 3-5 Technicians)**

Al Gihaz Energy Services Co.- Jeddah & South Region (RSA)

* Independently handled testing and commissioning of HV & EHV GIS substation projects in South region.
* Continuously reviewed electrical maintenance procedures and suggested improvements.
* Identified critical design problems during commissioning stage and rectified them by collaborating Power Operation Department Personnel and Saudi Aramco Project Engineer (Client) with involvement of SAPMT.
* Successfully tested power transformers, including polarization index test by using Megger MIT 525 test set, TTR test by using Megger TTR 310, Winding Resistance test by Omicron CPC 100, C&DF test of winding and Bushing by Megger Delta 3000, SFRA test by using Omicron FRA Analyzer, Short Circuit Impedance and Zero Sequence Impedance test.
* Testing of Switchgear including protection relays of Siemens/ABB/GE.
* Evaluated processes including preparation of bid documents, completion of technical evaluation for proposals and provided recommendations.
* Provided field engineering oversight and direction for activities such as support, testing, installation, inspections, commissioning.

**ADDITIONAL EXPERIENCE**

3/2013 – 2/2016 **Assistant Manager- Planning & Projects**

Bestway Cement Ltd. (Pakistan)

5/2010 – 2/2013 **Electrical Engineer**

Super Tech Technologies Consultants (Pakistan)

**EDUCATION**

2006 – 2010 **Air University Islamabad, Pakistan**

* Bachelor of Electrical Engineering

2019– 2019 **International Business Management Institute (IBMI) Online**

* Diploma in Project Management

**TRAINING**

* Installation & Maintenance of Solar Photovoltaic System
* The 9 Key Elements of Successful Plant Commissioning
* The Ultimate Off Grid Solar Energy Course
* Complete Solar Energy Course from Beginner to Advanced Level
* Onsite training of VFD’s, MV Switchgear by Commissioning Expert – FLSmidth, LOESCHE

**CERTIFICATIONS**

* Project Management
* Health & Safety Practices
* Computer Applications
* CCNA (640-802)

**MEMBERSHIP**

* Pakistan Engineering Council (PEC Registration # ELECT/29388)
* Saudi Council of Engineering (SCE # 495691)
* Engineers of Ireland (Membership # 483533).

**LANGUAGE**

**English (Fluent), Urdu (Mother Tongue), Arabic (Conversational)**