



Usman Raees

Electrical Engineer

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DR9915551

Why Usman?

- An Insightful and level-headed electrical engineer with combination of academic credentials, analytical agility and relentless passion towards erection, testing, supervising grid station.
- Flexible individual with a keen eye for details; possessing expertise in analyzing and interpreting data gathered from multiple surveys. Has knowledge of due-diligence of engineering documents and drawings. Skilled in domains of reporting, designing safety improvements, communication and presentation. Adept at Simulink& MATLAB
- Enthusiastic and adaptable person, eager to gain field knowledge and enhance skills for professional development and in turn bring repute and financial benefits to the organization.

TECHNICAL CORE STRENGTHS

- Engineering Design Solutions
- Maintenance Solutions
- Testing of Electrical Equipment
- Simulink & MATLAB
- PLS - CADD & PLS – TOWER

OTHER SKILLS

- Team Player and a team leader
- Interpersonal Skills
- Adaptive to challenging working environment.

PROFESSIONAL EXPERIENCE

1. EnMasse Pakistan (Pvt.) Limited, Lahore, Pakistan

Working as a “*Assistant Engineer*” in *Substation department*, June 2016 – April 2018

Responsibilities:

- Successfully rendered support in grid station department by reviewing and approving technical data and drawings for multiple electrical equipments such as transformers and control and relay panels etc. Preparation, checking / review of technical data and drawings of 132kV substation equipment which includes,
 - i. 31.5/40MVA and 20/26MVA, 132kV power transformer.
 - ii. Auxiliary supply transformer of 200KVA, 11/0.415kV.
 - iii. Control and Protection panels.
 - iv. 11kV switchgear panels.
 - v. General layout, switchyard equipment layout, equipment foundation drawings, earthing and grounding layout, cable scheduling, lightening protection drawings for 132/11kV switchyard and control house building.
- Preparation and evaluation of B.O.Qs of 132/11kV substation and H.V transmission line equipment as per requirement of client and in accordance with WAPDA specifications.
- Coordination and correspondence with clients and contractors for resolution of on-site technical issues.
- Technical and financial bid evaluation, preparation of feasibility reports and monitoring of site progress as per schedule.
- Conduct factory acceptance tests (FAT) of 132kV control panel, 132kV relay panel, 11kV incoming panel, 11kV outgoing panel, 11kV capacitor control panel ,7.2MVAR Capacitor bank, Power & Control cables, Battery charger, 200KVA Auxiliary transformer and 600mm² Hawthorn conductor.

Accomplishments:

- Consultancy Services for Engineering and Construction Supervision of Seven (7) Nos. 132kV Grid Stations and associated 132kV Transmission Line under **ADB Loan (Trench III & IV) in MEPCO, Multan, Pakistan.**
- Consultancy Services for Construction Supervision and Testing & Commissioning of Seven (2) Nos. 132kV Grid Stations (AIS) and associated 132kV Transmission Line at DHA, Lahore Phase VIII & IX.
- BID evaluation for 132/11kV grid stations DHA phase VIII & IX and HESCO grid stations

- Supervised the survey for 500 kV transmission line from Karachi to Matiari and evaluation for 132 kV grid station.

2. China Three Gorges Corporation

Working as a ***“Shift Engineer” in O&M department***, May 2018 – Present

Responsibilities:

- Troubleshooting, testing and maintenance of 132kV, 11kV and 400V equipment.
- Ensure daily inspection of 132kV Switchyard, 11kV & 400V system and 110V & 40V DC system.
- Safe operation (Remote & Local) during shutdown and power breakdown.
- Prepare daily progress reports (DPR).
- Assist shift CROs for routine work and guide them in any occasion.

PROFESSIONAL QUALIFICATION

▪ Mehran University of Engineering & Technology, Jamshoro, Pakistan (2012-2016)

BE – Electrical Engineering with 1st Div (85.1% or 3.9 CGPA)

Final Year Thesis

— *‘Analysis of HVDC link in large scale offshore wind farm’*

Scientific Publications:

— Baig, U. R., & Chang, M. M. (2017). Analysis of HVDC Link in Large Scale Offshore Wind farm, Study and Comparison of LCC and VSC Based HVDC Links and Interconnection of Asynchronous Power Systems Utilizing VSC-Based HVDC Converter Rectifier Inverter AC Load, 5(2), 57–70

▪ Superior College of Science, Hyderabad (2009-2011)

HSSC – Pre-Engineering with A-1 Grade (80.4%)

▪ St. Bonaventure’s High School, Hyderabad (2007-2009)

SSC – Science Group with A-1 Grade (82.1%)