

# Mr. MUHAMMAD IDREES

Registered (PEC) Engineer

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## WORK EXPERIENCE



### **ZONERGY (TIANJIN) COMPANY LIMITED: (300MWp QUAID E AZAM SOLAR POWER PROJECT)**

#### **ELECTRICAL OPERATION & MAINTENANCE ENGINEER (JULY-16- Present)**

Working as Electrical Operation and Maintenance (O&M) Engineer at Pakistan first and largest Solar Power Plant.

#### **My Job responsibilities and duties as Electrical (O & M) Engineer are:**

- Keep accurate records of daily generation, energy meters and daily reports.
- Proactively identify areas of faulty components, make excel sheet of these and take steps to remove the faulty equipment's to ensure maximum efficiency of the Plant.
- Clearing faults in minimum duration to ensure un-interrupted power supply to National Grid.
- Coordination with government departments (NTDC, MEPCO, RCC, and NPCC) regarding operation matters.
- Incharge of the Spare Parts stock availability in warehouse. Place orders on timely basis to ensure no shortages occur at any time.
- In charge of the vendor evaluation and selection process in coordination with Supply Chain Manager.
- Attend Bidding process, negotiate contracts terms and deadlines with vendors and suppliers.
- Supervision of Subcontractors working on the field/Plant for observing the Quality and quantity of work they are doing.
- Worked as an **HSE** engineer and supervised all site activities keeping in view HSE standards. Make monthly and biannual HSE (Health, Safety & Environment) report of the 100MW on grid solar power plant.
- Coordinate with NPCC/RCC regarding the tripping and shutdown in the 132kV line.

#### **PROJECT ENGINEER (PROJECT PHASE)**

During project phase of 300MW PV Plant, I worked as **Project Engineer**.

My scope of work included following activities:

- Supervision of installation, commissioning by EPC contractor.
- Installation, of photovoltaic module and their testing (**EL** Test, **IV** curve etc.) cable termination and cable laying of combiner box, inverters(1000KW) and box type (1MVA) transformers of 300MW.
- Actively take part in COD of three power plants of 100MW each.
- Installation of cable trays for power cables and control cables.
- Installation of 33kv switchgear panel.
- Monitored Project Schedule for timely completion of the project.
- Assured Quality and Safety work with EPC contractors.



**TBEA XINGJIAN SUNOASIS COMPANY LIMITED  
(100MWp QUAID E AZAM SOLAR  
POWER PROJECT)**

**Electrical (O & M) Engineer (Nov, 2014 to July 2016):**

**Key Responsibilities:**

- Monitoring of all Electrical parameters installed in 132KV switchyard and field from SCADA system.
- Visual inspection & maintenance of the whole 132KV grid station switchyard, Relay room, 33KV room, 100MVA Main Transformer, UPS room etc.
- Perform Site visits to identify solar potential.
- Co-ordination with NTDC persons in various cases i.e. tripping, shutdown, monthly billing.
- Keep accurate records and remove the fault components without any delay.
- Timely and accurately complete the daily, monthly reports of energy generation.
- Performed troubleshooting using monitoring system to determine the health of PV installation.
- Maintain all the previous records and documentation of the Plant.
- Participated and Take an active role in performing Reliability Run Test (RRT) of the 300 MW Plant.
- Ratio Test of CT & PT.
- Electrical Luminous (EL) Test of PV Modules.
- IV curve Testing of PV modules for performance check.
- PV Module Junction Box repairing Test.
- Testing of PV Modules from the Thermal Imager
- Ratio Test of CT & PT.
- Continuity Test of Breakers.
- Insulation winding Resistance Test of 100MVA Transformer.

**The Islamia University Bahawalpur**

BSc Electronics Engineering (2010—2014)

**The Islamia University Bahawalpur**

M.S Electrical (Power) Engineering (Oct 2018—May 2020)

- MATLAB, P-spice, AutoCAD
- Good knowledge of MS Office.
- Operating Systems: Windows 7, XP2000,10

- Certification and training on (HSE) Health Safety and Environment at ECSP.
- Training on SCADA programming and HMI Designing / Hands on training.
- (03) Months of Chinese Language Certification from TEVTA Punjab.

- Excellent inter-personal, analytical, problem solving & decisions making skills.
- Always stick to my work and motivated to achieve my goals smartly.
- Flexible and a very fast learner of process and systems.
- Proactive, innovative and handle multiple tasks in a high-pressure.

**ELECTRICAL TESTS  
PERFORMED**

**EDUCATION**

**SKILLS & TOOLS**

**TRAINING AND  
CERTIFICATIONS**

**PERSONAL SKILLS**

