

Rizwan Arshad

Head of EPC Team (Pakistan)

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Education

- 2013–2015 **M.Sc Robotics and Intelligent Machine Engineering**, National University of Sciences and Technology, Islamabad, *CGPA 3.75/4.00 (93.75%)*.
- 2009–2013 **B.Sc Electrical Engineering (Power)**, University of Engineering and Technology, Taxila, *CGPA 3.25/4.00 (81.25%)*.
- 2007–2009 **F.Sc Pre-Engineering**, Punjab College of Science, Gujranawala, *87.45%*.
- 2005–2007 **Matriculation**, Grammar Model School, Hafizabad, *88.35%*.

Summary

Being an Electrical Engineer with specialization in power engineering, I am experienced in planning, controlling and monitoring the actual execution of all electrical related works of the project including construction, equipment erection, testing and commissioning of 132/33 KV substation equipment. I am experienced in approval of **EBOP Equipment** from Power Purchaser and Operator i.e. **CPPA, NTDC, NPCC**. I am familiarise with latest NTDC **type test policy** and specifications including **132 kV, 220 kV and 500 kV** voltage levels. I am experienced in handling matters of **FAT and SAT** with NTDC in Force Majeure Events (FME). I had participated and successfully conducted **Type test** of Metering Current Transformer according to **NTDC's** new specifications (**P-205:2020**) in **KEMA Laboratories, Arnhem Netherlands**. I had participated in FATs of 132 Kv Current Transformers, Voltage transformers and capacitive voltage transformers happened in **Ankara, Turkey** along with **CPPA and NTDC officials**. Participated in training of **General Electric (GE)** wind turbines happened in **Shenyang China**. Participated in SATs of 132/33 Kv substation's equipment which includes power transformers, Instrument transformers, dis-connectors & earthing switches, generator step up transformers (GSUs), MV cable network, grounding transformers, installation of street & road lights, HT, LT, power factor improvement panels, off & on load tap changer transformers etc.

Experience

Aug 2020– Present **Head of EPC Team**, *HydroChina International Engineering Company*, Karachi, Pakistan.

- I am currently appointed as head of EPC team (Pakistan) to look after the **remaining/punchlist works, pending milestone payments and Taking Over Certificates (TOC)** of 13 projects mentioned below. I am managing a team of approximately 100 Engineers for 13 different wind and solar projects.
- Responsible for 132 kV equipment approval (EBOP) form NTDC for 12 wind and 01 solar projects which are under construction in different parts of Pakistan.
 - 100 MW Zhenfa Solar Project.
 - 50 MW Master Green Energy Ltd.
 - 50 MW Gul Ahmed Electric Ltd.
 - 60 MW Metro Wind Power Ltd.

- 50 MW Indus Wind Energy Ltd.
- 50 MW ACT 2 Wind (Pvt.) Ltd.
- 50 MW Artistic Wind Power (Pvt.) Ltd.
- 50 MW Din Energy Ltd.
- 50 MW Lakeside Energy (Pvt.) Ltd.
- 50 MW Liberty Wind Power 1 (Pvt.) Ltd.
- 50 MW Liberty Wind Power 2 (Pvt.) Ltd.
- 50 MW NASDA Green Energy (Pvt.) Ltd.
- 50 MW Tricom Wind Power (Pvt.) Ltd.
- Contract negotiations (EPA and EPC) with IPPs, CPPA and NTDC.
- Closure of technical queries (TQs) raised by consultants and client representatives.
- Attend weekly and monthly progress meetings with 13 different wind and solar projects' clients.
- Deal with NPCC for SLD approval, IP address allocation and integration of seller's SCADA with purchaser's (NPCC) SCADA.
- Assist project site teams for EBOP equipment approval from consultants and clients.

Aug 2019- **Electrical Manager**, 500 MW Huadong Ibri PV Construction LLC, Ibri,
July 2020 Oman.

- Prepare testing and commissioning schedules.
- Communicate with utility companies regarding interconnection, permitting, and other regulatory compliance issues.
- Identify the sources of likely problems and proactively take preventive measures to avoid any potential project risks, and determine response actions to mitigate any negative impact.
- Provide progress reports and other status updates to client and management as required.
- Monitor work of subcontractors to ensure project's conform to plans, specifications and schedules.
- Provide technical assistance to installers, technicians and other solar professionals working at the project.
- Assist testing and commissioning teams in the implementation of codes and standards.
- Prepare method statements, testing procedures and O&M manuals to hand over to O&M team.
- Coordinating among other team leaders for those testing and commissioning activities which are overlapping.

Dec 2018- **Business Manager**, PowerChina Huandong Engineering Corporation Lim-
July 2019 ited, Karachi, Pakistan.

Negotiated EPC Contracts of Solar Projects:

- 50 MW Enertech Quetta Solar, Pishin, Quetta, Pakistan.
- 50 MW Enertech Bostan Solar, Pishin, Quetta, Pakistan.
- 100 MW Zhenfa Pakistan New Energy Company, Layyah, Pakistan.
- 100 MW Siachen Energy Limited, Mirpur Sakro, Sindh, Pakistan.

Negotiated EPC Contracts of Wind Projects:

- 50 MW Master Green Energy Limited, Jamshoro, Karachi, Pakistan.
- 50 MW Gul Ahmed Electric Ltd., Jhimpir, Karachi, Pakistan.
- 60 MW Metro Wind Power Ltd., Jhimpir, Karachi, Pakistan.
- 50 MW Act 2 Wind (Pvt.) Ltd., Jhimpir, Karachi, Pakistan.
- 50 MW Artistic Wind Power (Pvt.) Ltd., Jhimpir, Karachi, Pakistan.

- 13.8 MW Burj Wind Energy (Pvt.) Ltd., Gujju area, Karachi, Pakistan.
- 50 MW Din Energy Limited, Jhimpir, Karachi, Pakistan.
- 50 MW Indus Wind Energy Ltd., Jhimpir, Karachi, Pakistan.
- 50 MW Lakeside Energy (Pvt.) Ltd., Jhimpir, Karachi, Pakistan.
- 50 MW Liberty Wind Power 1 (Pvt.) Ltd, Jhimpir, Karachi, Pakistan.
- 50 MW Liberty Wind Power 2 (Pvt.) Ltd, Jhimpir, Karachi, Pakistan.
- 50 MW NASDA Green Energy (Pvt.) Ltd, Jhimpir, Karachi, Pakistan.
- 50 MW Tricom Wind Power (Pvt.) Ltd., Jhimpir, Karachi, Pakistan.

Apr 2017- **Lead QA/QC Engineer**, *PowerChina Huandong Engineering Corporation*

Nov 2018 *Limited*, 50 MW HAWA & 50 MW JPL Wind Project, Jhimpir, Pakistan.

- Approval of the equipment specification, technical data, drawings and layout design from CPPA/NTDC.
- Meetings with CPPA, NTDC (Design, Telecom & Protection) and NPCC for approvals as per EPA.
- Coordination with CPPA/NTDC and client/OE for FATs and SATs.
- Review the drawings, technical data and specifications of equipment before submitting to client/OE.
- Timely reply of technical queries (TQs) raised by client/OE.
- Assign daily tasks to team for proper execution of site works.
- Attend daily, weekly and monthly progress meetings with client/OE.
- Assure the work is being done as per approved drawings/specifications.
- Coordination with client/OE team for daily site inspections.
- Supervise and monitor all the electrical erection/installation activities in substation.
- Prepare QIPs, testing protocols, checklists, EPA & EPC schedule to ensure quality work on time.
- Close coordination with civil & mechanical for smooth execution of overlapping activities.
- Monitor the daily activities & progress of subcontractors.

Jan 2015- **Electrical Engineer**, *Master Wind Energy Limited*, Jhimpir, Thatha,

Mar 2017 Pakistan.

- Coordinate & exchange documents with financial consultant (Bridge Factor), technical Consultant Lahmeyer International and its local partner Renewable resources(RE2), legal consultant (HaiderMoota), environmental consultant (Arch associates) and lenders engineer Sargent and Lundy(S&L) for achieving financial close.
- Assist Project Manager in Energy Purchase Agreement (EPA) & direct EPA, Implementation agreement IA & direct IA, Site sub-lease & direct SSL etc.
- Prepare documents/letters for submission to government agencies such as NTDC/CPPA, AEDB, Energy Department Govt of Sindh etc.
- Assist Project Manager in obtaining all necessary approvals & permits that are necessary for financial close and for execution.
- Monitoring electrical works at site daily.
- Participate in FAT (Turkey) and SATs.
- Supervise commissioning of substation equipment, underground cable collection system and wind turbine generators as per approved drawings/material/equipment & NTDC standards.
- Coordinate with mechanical & civil team to indicate & execute overlapping activities of electrical, mechanical & civil.
- Coordinate with contractor's/consultant's representatives for any site matters/instructions/inspection of works.
- Coordinate with Electrical Inspectorate, EHV department and HESCO for approvals and data necessary for evacuation of power.
- Coordinate with contractor's admin for accommodation, food and transport to facilitate visits of Lender's Engineers, Bankers, NTDC, CPPA etc.
- Communicate with RCC and NPCC in case of power curtailments, grid outages and planned shutdowns.

- Keep track of Red Mark/as built drawings.
- Calculate monthly NPMV for invoicing to CPPA.
- Coordinate with metering committee for monthly meter reading.
- Review service reports & daily progress report (DPR) of GE/Albario.
- Keep record of capital spare parts & BOP spare parts being used in 2 years O&M period.
- Coordinate with contractor's representative to close punchlist items.

Aug 2013- **Site Engineer**, *Pak Power*, Islamabad, Pakistan.

- Dec 2014
- Supervise installation of street & road lights, HT, LT & power factor improvement panels, off & on load tap changer transformer on different locations.
 - Participate in on site testing of electrical equipment.
 - Produce method statements for carrying out all electrical works.
 - Coordinating with client about project activities for planning and scheduling tasks.

Sep 2013- **Research Assistant**, *SMME-NUST*, Islamabad, Pakistan.

- Feb 2014
(Part Time)
- Served as research assistant on project funded by Higher Education Commission of Pakistan (HEC): "**Modeling & Robust Control of Grid Connected Inverters**".
- Literature review, analyze data, prepare materials for experimental use.
 - Run experiments & keep accurate records of experimental data.
 - Manage and respond to experiment-related e-mails.
 - Develop Matlab/Simulink based Models.
 - Design controller under worst conditions.
 - Publications ([See publications section](#)).

July 2012- **Internee**, *NTDC Nokhar 500 kv grid station*, Gujranawala, Pakistan.

- Aug 2012
- Study and observe incoming and outgoing circuits of the 500 KV grid station.
 - Visual inspection & working of essential elements of the 500 KV grid station which includes shunt reactor, line traps, CVTs, surge arresters, earthing system, circuit breakers, isolator switches, current transformers, power transformers, fire protection system, SF6 circuit breaker, bus bars and bus couplers, insulators etc.
 - Operation & protection of grid connected system.
 - Integration of generating stations
 - Power control centre
 - Operation, routine tests and earthing of power transformers

Professional Trainings

- WTG SCADA training in GE's Shenyang China training centre.
- Pvsyst training.

Areas of Interest

Integration of distributed energy resources with grid, Power Generation by renewable resources, Power Transmission and Distribution.

Computer skills

Engineering Matlab, Autocad (basic), Latex, C++.

Misc. MS Office, Windows 7,8,10,11 Ubuntu.

Personal skills

Excellent organizational skills.

Highly organized and able to work under pressure.

Excellent leadership qualities and keenly interested to work in a team.

Self-motivated, persistent, creative, dedicated, and adaptable.

Good verbal communication skills.

Personal interests and activities

Interests Traveling, cooking, social media.

Activities Badminton, cricket, football, computer gaming, movies and music.

References

- Will be provided when requested.