

Huzaiifa Munawer

Electrical Engineer

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Professional Summary

Commissioning, Planning & Maintenance Electrical Engineer with 5+ years of experience across Construction, Power, Energy Sectors & Textile Utilities, possessing key skills including Leadership, Project Management, Erection & Commissioning, Reliability, Analysis & Improvement. With experience ranging from **Pre-TA to Post-TA** phases, I specialize in project planning, monitoring, controlling, and management. Comprehensive Knowledge of electrical codes & standards (**IEEE, IEC, NFPA, OHSAS, ISO, FAT & SAT**).

Projects:

- Sindalah Island Village Project (**NEOM**)
- Central Transportation Hub (**RED SEA**)
- Quality Control Lab (**RED SEA**)
- Central Distribution Center (**RED SEA**)
- Erection of 11kV switchyard.
- Erection of 1-MW Generator, Step-up Transformer & LV/MV Switchgear.
- Planning, Site Inspection, Design, Quality Control and Installation Supervision
- Effluent Treatment Plant (ETP)

Employment History:

Commissioning Engineer

Company: T-10

Client: NEOM

Contractor: Nesma & Partners

Consultants: ETSD & PMC

- Pre-Commissioning & Commissioning of LV Switchgears (**MDB, EMDB, SMDB, ESMD, MCC, EMCC, Control Gears, DBs, PFC**)
- Electrical Testing of Switchgears (**Visual Inspection, IR, CRM, HIPOT, CT, PI, SI, Power Meter Test, RCD, Continuity, FT & Energization**).
- Testing & Commissioning, Troubleshooting of **Power Transformers (5000KVA)** and **Dry Transformers (30MVA)**
- Planning, Commissioning, Preventive & Predictive Maintenance of **Generators (20MVA), Atlas Capco Compressors & ATS (400A)**
- Experience in **Electrical Engineering Calculations** like Circuit Breakers (MCB, MCCB, ACB, VCB & SF6), Transformers, LV Panels, Relays, Bus bars, HT/LT Switchgear, Capacitor Bank, Power Banks, Grounding/Neutral, Fuses, V.D in DB, Load Schedules, Power Sockets & Lightning.
- Experience with Specifications & Datasheets of **HV\LV Air Insulated Switchgear & Control gears, EHV\HV\LV Cables, UPS, and NGR & Panel boards**.
- Perform Electrical Testing Include **Power Socket, Lux Test, Loop Impedance Test, Grounding & Lightning Arrester**.
- Conduct Electrical Testing of **Feeder Cables, Continuity, KNX, LCP, and EMCS**.
- Provide Coordination between different Testing Teams (**ALFANAR, SELCO, UTEC, WESCOSA,**

SETRA, JEDI) & Clients (AECOM, EVOLUTION, NEOM, ESTD)

- Oversee the Installations, Testing & Commissioning of Electrical systems including **Power Distribution, Lighting and Control**.
- Controlling, maintaining of the Electrical Blueprint (standards, procedures, drawings & BOM), hazardous area checking, and on-site safety audit.
- Managed Engineering changes, work orders, inventory, maintenance plans using **SAP & Proper use of PPE's & LOTO** throughout Erection and Commission phase.
- Execution of all activities on-site of **Pre-commissioning / Commissioning**
- Collaborating with cross-functionally teams (**Project Managers, Area Engineers, Procurement, and Workshop**) and other teams to achieve mutual goals.
- Implement & ensure compliance with **Project Quality Plans** and **Mandatory Quality Practices**
- Checking the Availability of **Resources and Coordinating** with focal points from company side as well as client side for safe and **Quality Execution**.
- Chairs **Pre-Inspection Meetings** (PIMs), collaborates with clients, manufacturers & finalize **Inspection Test Plans** (ITP).
- Ensure instrument equipment works complied with **Project Specifications, Company Procedures, Method Statements and Quality assurance and Controls Documentation**
- To Develop '**S**' curve to monitor actual progress against planned value & to Verify Critical Path and interface between **Engineering / Procurement / Execution** to comply with company **HAZOP, HSE Policy** and to undertake safety responsibilities.
- Ensuring safety and adopt work permit system during job execution (**Cold Work Permit, Hot Work Permit, Confined Space vessel entry Permit, Excavation Work Permit**)
- Engaging with important **OEMs** to address design issues affecting reliability and to maintain knowledge of upcoming technological improvements.

Commissioning Engineer

Company: T-10

Client: RED SEA

Contractor: YMCO

Consultants: WSP & RED SEA

- Witnessing the SAT procedure for the Medium Voltage (**Package Substation & Ring Main Unit**)
- Conducting the **VLF & IR Test** for the Medium Voltage Cables.
- Conduct SAT Test for LV Switchgears (**MDB, EMDDB, SMDB, ESMDB, Feeder Pillars, DBs, PFC**)
- Conduct pre-Commissioning & commissioning for LV Switch Gears & Control Gears.
- Perform SAT procedure, Pre-Cx & Cx for the **DRY TYPE TRANSFORMER**.
- Witnessing test for **UPS, LCP, Central battery System (CBS), Lighting Poles, Rapid DC Charger, Earthing & Lightning Protection**.
- Understanding the Client (RED SEA) procedure for the **ATP & WIR** regarding T&C.
- Preparation for the **Method Statements** for the T&C & Submission of the Reports.
- Have a good Knowledge of analyzing **Project Specification & Material Submittal** for preparation of T&C Method Statement.
- **Energy Analysis**: Analyzing the Quality of Energy, Power Factor, Short circuit, Load Flow Analysis & Arc Flash Hazard studies.
- Modifying **SLD, Site Redness Report & Highlight Key Areas**, and Updating sketches as built & gaining approval from the consultants.
- Witnessing all test performed by **Vendors, Third Party** and approving the test results (**FAT**)
- Starting from site visit to Preparation, Tagging Equipment's and Mobilization of Manpower, Tools Equipment's.
- Supervise Electrical Installation Activities, ensuring Compliance with design specifications, codes, and safety standards

Planning-Maintenance Electrical Engineer – Master Textile Mills Limited

- Planning, Troubleshooting, Preventive and Predictive Maintenance of **Generators (25MVA) & Alternator, Atlas Copco Compressors, and Coal Fired Power Plant's Auxiliaries.**
- Maintenance & Troubleshooting of **132KV Sub-station** (e.g. CVT/IVT, CT, Isolators, Surge Arresters, Wave Traps, Power Transformers, SF6 Circuit Breaker & Bus post-Insulators).
- Annual **Protection Relay Testing** of Switchgears carried out from **SIEMENS.**
- Experience with specifications **HV Air Insulated Switchgear & Control gears, High Tension Induction motors & Low Tension induction Motors, HV Cables & NGR.**
- Maintenance and Troubleshooting of **HT Motors (ID, PA, SA Fan)** and **11 KV VFD's.**
- Maintenance and Troubleshooting of **Coal Handling System (Motors, Drum Screen, Non Plugging Crusher, Coal Feeders, Feeder Pumps, Heaters, Air Pneumatic Valves, Bag Filters).**
- Conduct Testing of **DC Power Supply** system including the **Batteries, Chargers and Switchboards.**
- Monitor and inspect the installation of **High Voltage Cables, Testing and Termination** as per approved quality procedure
- Monitoring the project progress with the plan, tracking performance metrics, and taking necessary actions to cover the works as per schedule
- Conduct regular **Performance Killer analysis** based on actual production loss data and **RCA's** to generate Resolution Plans (**PKRP**) that recommend specific actions to mitigate common failure modes.
- Participate in failure analysis and support **RCA** of actual/potential incidents.
- Supervise team of electricians and provided technical assistance to electrical equipment problems within the company-owned facilities
- Coordinate with contractors and vendors to procure material and services necessary for project executions

Turnaround In charge Maintenance Electrical Engineer – Hi-tech Network Limited

- Working with HNL as **Area Electrical Lead for Turnaround** of Plant Units from Pre shutdown to Present
- Execution of all activities on-site of **Pre-commissioning / Commissioning.**
- To attend **Daily Management Meetings** during execution and present the overall status with management.
- Monitoring the **Actual Progress** with the plan and taking necessary actions to cover the work as per shutdown's schedule.

Company: Liberty Builders Property Developers

CLIENT: Ramada Hotel & Suites, Copper Road 17-A

CONTRACTOR: Uniserve

CONSULTANT: International Engineers

- Insulation & Conductivity and Operational Test of Lighting Unit.
- Insulation & Conductivity and Operational Test of Power Unit.
- Operational Test of LV Panel.
- Conductivity and Operational Test of Feeder's cables.
- Weekly work plans including tasks, location & the work force needed for every task.
- Test and evaluate electrical components and systems to ensure they meet design specifications and safety standards.
- Conduct performance testing, troubleshooting, and diagnostics to identify and resolve issues.

Company: Consolidated Engineering Services (Pvt) Ltd

CLIENT: Elite State Pvt Ltd

CONSULTANT: Mustaq & Bilal

- Performed Insulation Resistance (IR) test on Circuit Breakers & Cables.
- Established Electrical panels of different kinds MDB, MCP, MCC, SMDB & LDP.
- Installation of more than 1500 Lighting Fixtures.
- Pulled more than 95000 meters of wires for lighting and LV applications.
- Pulled more than 90000 meters of LV and MV cables.
- Installation of 19000 meters of conduits RGS and PVC.
- HV Electrical Cables installations & Termination.
- Modify Single Line Diagrams (SLD) and updated sketches to align with site conditions.
- Generated daily and weekly reports on work progress.
- Preparing the Installation Site Redness Report & highlighting the Key Areas

Industrial Software:

- ORACLE
- Aconix
- PRIMVERA P6
- MICROSOFT PROJECT/OFFICE
- AUTOCAD

Safety Trainings:

- EEHA, HV/LV Switching
- Basic Fire Fighting Training
- Part of Emergency Team (ERT)
- Working at Height/Confined Space

Courses & Trainings:

- One-day training on Energy Management System ISO 50001 & ISO 9001
- Two-days course on "Development Course for Managers" from Pakistan Institute of Management (PIM)

Education:

Bachelor of Science: Electrical Engineering

Government College University - Lahore, Pakistan

- Member of IET at GCU Lahore.
- Marketing & Resource Development at Shaukat Khanum Memorial Cancer Hospital & Research Centre, Lahore.

Certifications

- SAP PM Business User
- Higher Education Council
- Pakistan Engineering Council
- Microsoft Office
- IELTS