

# 103791-ELE-1CMOTy-E-2011

## Senior Electrical Testing & Commissioning Engineer

Holds a B. Sc. in Electrical, Electronics & Communications Engineering and has over 10 years hands-on experience working in construction, maintenance, testing and commissioning.

### PERSONAL DATA

Nationality : Egyptian  
Birth Date : 30/04/1989  
Gender : Male  
Marital Status : Single  
Residence : Tanta

### EDUCATION

: B. Sc. in Electrical, Electronics & Communications Engineering, Higher Institute of Engineering and Technology, 2011

### LANGUAGES

Arabic : Native Language  
English : Very Good

### COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: Networking, LAN and WAN protocols

### TRAINING COURSES AND CERTIFICATIONS

: Training in TOSHIBA Transmission & distribution systems (India) Pvt. Ltd (Testing and commissioning for 132KV GIS) (Feb. 2019 - Apr. 2019).  
: PLC

### CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Oct. 2014 till now  
**Employer** : ELSEWEDY POWER SYSTEM PROJECTS  
**Projects** :

- New Babel 400/132KV GIS S/S (Iraq)
- Nuweiba Seawater RO Desalination Plant 15000 m<sup>3</sup>/ day (Egypt)
- FOUR substations 400KV/132KV GIS S/S (Iraq)
- SOUTH HELWAN SUPERCRITICAL POWER PLANT (3x650MW) (CP-117) (Egypt)
- MANSHIAT NASSER 220/66/11KV GIS S/S (Egypt)
- WEST DAMIETTA POWER PLANT PHASE II (CP-117 and GIS)

- Job titles** :
- ELSOKHNA POWER PLANT (2x650MW) (CP-117)
  - Senior Electrical Testing & Commissioning Engineer (from Jan. 2019 till now)
  - Electrical Testing & Commissioning Engineer (from Oct. 2014 till Dec. 2018)
- Job Description** :
- Lead and perform all testing commissioning activities and prepare the relevant procedures.
  - Follow up with the construction team till handed over to quality.
  - Review and revise project drawings and schematic diagrams, and review and all plant interlocking.
  - Completing operating and maintenance manuals, record drawings, and test certificates.
  - Perform all testing & commissioning activities for all GIS types (500KV, 400KV, 220KV, 132KV and 66KV).
  - Assemble and dismantle HV machine, perform High voltage tests and partial discharge tests.
  - Perform all GIS equipment testing (CT, VT, CB, Disconnecter switch, earth switch, Bushing, Surge arrestor, and CCVT).
  - Perform all GIS tests (Stroke Sensor test, Timing test for CB, ES, and DS, and Contact resistance for Bus bar, CB, DS, and ES).
  - Perform all GIS interlock and wiring checks.
  - Testing and commissioning VT loop, CT loop, and primary injection test.
  - Perform all transformers tests (stability test, restricted earth fault, insulation resistance test (IR), DC resistance, turns ratio, primary injection, tan delta and vector group test).
  - Perform all MV SW-GR tests (C.B contact resistance, C.B timing, primary injection, wiring check, electrical function check, interlock test, mechanical functions check, bus bar insulation test, bus bar high pot test and Arc flash system).
  - Perform testing for LV SW-GR included (bus bar insulation test, wiring check, function check, interlock test and operation philosophy).
  - Perform testing and commissioning for all DC systems (Charge and Discharge for batteries, Charger start-up, testing the operation philosophy and checking the efficiency of all DC systems).
  - Perform testing and commissioning for all AC systems (AC distribution panels, inverter and UPS, and testing the operation philosophy and checking the efficiency of all AC systems and emergency systems).
  - Perform testing and commissioning for all motor types (Insulation resistance, Polarization Index (PI), rotation test, and DC winding resistance test).
  - Perform testing and commissioning for all types of the capacitors bank and shunt reactors (Interlock, operation, capacitance measurement, inductance measurements, surge arrestors, and high pot test).
  - Perform testing of all cable types including (Continuity, Megger, and High pot test).
  - Perform testing the CT and VT including (Megger, Turns Ratio, Polarity test, and Excitation test).
  - Perform interface test and loop check for all electrical systems with DCS, SAS, and SCADA (GIS, DC, UPS, MV SW GR, LV SW GR, transformers, BCU, protection panels, metering panels, and fault recorder).

- Perform maintenance and Troubleshooting for (GIS, MV Switch Gear, Load Center, MCCs, DC, and UPS).
- Follow up the Operation and start-up for all electrical systems as (GIS, SW GR, MCCs, DC, and UPS) and energizing for all electrical systems.
- Support DCS, SAS, and SCADA for testing and commissioning and perform testing for the protection and control panels.

**Dates** : From Dec. 2012 till Aug. 2014  
**Employer** : Hitachi Ltd.  
**Project** : Banha Combined Power Plant (3x250MW), CP-118  
**Job title** : Electrical Site Engineer (CP-118)

**Dates** : From Jun. 2012 till Dec. 2012  
**Employer** : Techno Power Co., Cairo  
**Job title** : Electrical Maintenance Engineer

**Dates** : From Nov. 2011 till Jun. 2012  
**Employer** : Alcan Network  
**Job title** : Site Engineer