

# 102462-ELE-124DPTyz-E-2019

## Senior Testing & Commissioning Engineer

Holds B. Sc. in Electrical Energy & Machines Engineering and M. Sc. degree. Has over 4 years experience in project design primary and secondary, also testing & commissioning in field of HV substations, Power Plants, Renewable Energy and Oil & Gas. Skilled in testing, commissioning, protection & field service.

### PERSONAL DATA

Nationality : Egyptian  
Birth Date : 27/03/1997  
Gender : Male

### EDUCATION

- : B. Sc. in Electrical Energy & Machines Engineering, El-Shorouk Academy, 2019
- : M. Sc. degree, Cairo University, 2022

### LANGUAGES

Arabic : Native Language  
English : Fluent  
German : Fair

### COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet
- : AutoCAD, ABB PCM600, Micom Agile, GE EnerVista software, Siemens DlgSILENT 4 & 5, Siemens SICAM PAS, Omicron Test Universe, Omicron PTM, GE TAPCON, ETAP

### TRAINING COURSES AND CERTIFICATIONS

- : Project Management Professional (PMP).
- : Protection and control IED manager ABB PCM.
- : Siemens DlgSILENT 4 & 5.
- : PLC
- : Train the Trainers (TOT).
- : Power System Distribution.
- : Building Management System (BMS).
- : Classic Control.
- : Solar Energy.

: On-job training as Electrical Engineer at PGESCo (Jun. 2018).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Apr. 2022 till now
- Employer** : JV Arab Contractors & Elsewedy Electric (JVACEE)
- Project** : Julius Nyerere Hydro Power Plant (2115MW), Tanzania  
Julius Nyerere Hydropower Project is one of the largest development projects proposed in the Rufiji, the Power Plant will consist of nine (9) Francis turbine units, 235MW each turbine.
- Job title** : Senior Testing & Commissioning Engineer
- Job Description** :
- Testing All 400KV AIS Switchyard Equipment's Circuit Breaker, CT, VT, DS & ES.
  - Testing ABB & Siemens Protection Relays such as REG670, RED670, REB670, RET670, REC670, REF615 & 7SD827.
  - Testing Shunt Reactor & Auxiliary Transformers.
  - Testing & Commissioning Control Panel for the bays.
  - Testing and energization of the DC and UPS system.
  - Testing M.V and L.V SWGR.
  - Testing the protection panels for all the transformers, generators, and lines.
  - Testing of Main Dam Pumps and check & test the Sequence of Operation.
  - Testing of Generator Rotor Winding, generator circuit breakers (9 GCB'S ABB) and all the interface signals.
- Dates** : From Dec. 2020 till Mar. 2022
- Employer** : Madkour Group
- Job title** : Testing & Commissioning Engineer
- Job Description** :
- Sarai Substation (2x175MVA 220/22/22KV GIS), New Administrative Capital, Egypt (Nov. 2021 – Mar. 2022) (Commissioning Engineer):
    - Testing of Current Transformer & Voltage Transformer using CT Analyzer & CPC100.
    - Testing for the circuit breakers included (insulation resistance, timing & Micro-ohmmeter).
    - Testing for Power transformers included (insulation resistance, turns ratio, vector group, Megger and Tan Delta test).
    - Performing Busbar stability (Low impedance), Transformer stability, Primary injection, Secondary injection for CT, VT loop.
    - Testing simple relays (Micom-ABB-Siemens) specifications.
    - Scheme checking of LCC, Protection & Control panels, Capacitor Bank including operational, functional, wiring & RTK.
    - Mapping & Topology of SICAM Pas and interface it with WinCC, Interface between substation and Control center using various protocols (IEC61850 – MODBUS).
  - LRT Traction Substation, New Capital, Egypt (4x80MVA 220/27.5/20KV) (Sep. 2021 – Nov. 2021) (Testing & Commissioning Engineer):
    - Testing & start-up AC & DC system included (AC & DC MDB, Battery System & DC Chargers).

- Testing for power transformers & Traction Transformers included (insulation resistance, turns ratio, vector group, Megger and Tan Delta test).
- Performing a training to the owner & Closing punch list.
- Performing Busbar stability (Low impedance), Transformer stability, REF Stability Primary injection, Secondary injection for CT, VT loop secondary.
- Testing simple relays (NR & Micom).
- Mohamed Naguib Base Substation (2x40MVA 66/22KV GIS), Alexandria, Egypt (Apr. 2021 – Sep. 2021) (Testing & Commissioning Engineer):
  - Testing of Current Transformer & Voltage Transformer using CT Analyzer & CPC100.
  - Testing for the circuit breakers included (insulation resistance, timing & Micro-ohmmeter).
  - Testing for Power transformers included (insulation resistance, turns ratio, vector group, Megger and Tan Delta test).
  - Performing Busbar stability (Low impedance), Transformer stability, Primary injection, Secondary injection for CT, VT loop.
  - Testing simple relays (Micom-ABB-Siemens) specifications
  - Scheme checking of LCC, Protection & Control panels, Capacitor Bank including operational, functional, wiring & RTK.
- Pumping stations for development of South Valley of TOSHA, Aswan, Egypt (Dec. 2020 – Mar. 2021) (Testing & Commissioning Engineer):
  - Commissioning of Pump Stations, LV, MV.
  - Testing of all 22KV MV Distributors includes CT, VT, CB & Functions.
  - Testing of LV & MV Motors includes Soft starters & Motor drive unit.
  - Start-up the system.
  - Testing & start-up AC & DC system included (AC MDB, Battery System & DC Chargers).
  - Scheme checking of LCC, Protection & Control panels, Capacitor Bank including operational, functional, wiring & RTK.

**Dates** : From Jul. 2019 till Nov. 2019

**Employer** : Giza Systems

**Project** : Mobile Substation (220/22/22 – 220/11/11KV), Cairo

**Job title** : Technical Office Engineer

**Job Description** :
 

- Design of Substation General Equipment Layout & Equipment Arrangement of substation.
- Design of (HV / MV and LV & control) cables raceway.
- Design of Earth Grid & Equipment layout & Calculations.
- Design of Lightning protection layout and Details.
- Design of Battery and Battery charger.
- Design AC SLD & DC SLD for auxiliary systems.