

Senior Substation Tendering & Technical Support Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 8 years hands-on experience working in design, tendering and technical support.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/09/1990
Gender : Male
Residence : Mokattam, Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 2012
: M. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 2020

LANGUAGES

Arabic : Native Language
English : Very Good
German : Fair
French : Fair

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD
: Bentley mirco station
: Dialux
: ETAP
: Micro C for pic & Proteus electronic design
: Matlab & C/C++ programming
: Revit
: CDEGS Earthing software

TRAINING COURSES AND CERTIFICATIONS

: Matlab (Jelecom).
: Electrical distribution (AutoCAD – ETAP – Dialux) (Jelecom).
: Microcontroller (Jelecom).

- : Programmable Logic Control (PLC).
- : English: Toefl IBT test.
- : German: Goethe certificate.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2018 till now
- Employer** : ENERGIA-PTS
- Projects** :
- Damietta Furniture City 220KV GIS substation
 - New Housh Eissa 220KV GIS substation
 - Gerza 220KV GIS substation
 - New Abu Rawash 66KV GIS substation
 - EL TEBEEN 66KV GIS substation
- Job title** : Senior Substation Tendering & Technical Support Engineer
- Job Description** : Main Duties to design but not limited to the following:
- Defining scope of work and supply for the project based on the specification document.
 - Preparing RFQs and subject to different suppliers.
 - Study proposed offers from vendors & giving comments on them if necessary for correct qualification.
 - Preparing tender documents & subject to EETC.
 - Preparing AC/DC auxiliary system then study proposed offers from panel builders.
 - Coordinate with suppliers for getting the best offer technically and commercially.
 - Preparing initial design drawings like SLD & layout + calculations like NER & Zigzag Transformer.
 - Preparing all Preliminary BOQs.
 - Giving support to project engineers based on past experience in Substations.
 - Follow approvals on Guarantee schedules & documents with EETC.
 - Giving technical support to vendors in order to get final approvals from EETC.
 - Preparing contract documents including guarantee schedules and technical specification.
- Dates** : From Aug. 2017 till Dec. 2017
- Employer** : Madkour EPC
- Job title** : Electrical Design Engineer
- Job Description** : Main Duties to design but not limited to the following:
- Station Service Transformer Sizing.
 - Study proposed offers of LV panels from different vendor & giving comments on them.
 - AC Single line.
 - DC Single line diagram.
 - LVAC CB Sizing.
 - LVAC Cable Sizing.
 - Battery & Battery Charger Sizing.
 - DC CB Sizing.

- DC Cable Sizing.
- Circuit breaker setting (MCCB, AIR, etc.).
- Short Circuit Calculation.
- Indoor/Outdoor Lighting & Auxiliary Power.
- LV Cable Raceway along with loading and filling calculation.
- Preparing B.O.Q for the materials.
- Panel board schedule (Lighting, Auxiliary power).
- DC & AC cable termination.
- Interfacing between auxiliary panels & control & protection panels.

Dates : From Jun. 2015 till Jul. 2017

Employer : DAR Engineering (Alfanar Co.)

Projects :

- Al Wajh 380/132/33/13.8KV BSP
- Modon Jeddah Expansion 380/110KV S/S
- Airport II 110/13.8KV S/S
- Yanbu Phase 3 Seawater Desalination Plant
- Government Compound Makkah 110/13.8KV S/S
- MURJAN 110/13.8KV S/S

Job title : Electrical Design Engineer

Job Description : Main Duties to design but not limited to the following:

- Station Service Transformer Sizing.
- Study proposed offers from different vendor & giving comments on them.
- AC Single line diagram.
- DC Single line diagram.
- LVAC CB Sizing.
- LVAC Cable Sizing.
- Battery & Battery Charger Sizing.
- DC CB Sizing.
- DC Cable Sizing.
- Circuit breaker setting (MCCB, AIR, etc.).
- Short Circuit Calculation.
- Shielding System.
- Grounding & earthing System (Reinforcement & Equipment earthing).
- Indoor/Outdoor Lighting & Auxiliary Power.
- Opening and Cable Duct Bank.
- MV & HV Cable Routing.
- LV Cable Raceway along with loading and filling calculation.
- Preparing B.O.Q for the materials.
- Panel board schedule (Lighting, Auxiliary power).
- DC & AC cable termination.
- Interfacing between auxiliary panels & control & protection panels.

Dates : From Jun. 2014 till May 2015

Employer : Electric Power System (EPS)

Projects :

- New Gamasa GIS Substation 220/66/11KV
- BADR GIS Substation 500/220KV

Job title : Medium - High Voltage Tender & Design Engineer

Job Description :

- Designing proposal single line diagram for substations (GIS / AIS) using appropriate software.

- Preparing tendered documents for the substations including various chapter and sections.
- Revising contractor documents based on the specification documents.
- Adding comments and giving approval with seniors to the contractor proposed documents after revising them.

Dates : From May 2013 till May 2014
Employer : Egyptian Aviation Services (EAS)
Project : Sharm El-Sheikh Airport (Egypt)
Job title : Electrical Engineer
Job Description :

- Troubleshooting for any malfunction in the electrical systems for the ground service equipment.
- Using wiring diagrams and advanced diagnostic tools in the troubleshooting process.
- Monitor preventive maintenance plans and evaluate its performance.
- Record any work has been done because of any malfunction in every equipment logbook.
- Lead group of technicians and organize the work for them.

Skills:

- PLC SIEMENS S7 300.
- Microcontrollers (PIC & AVR).
- Excellent knowledge about the design of electrical substations (GIS & AIS).
- Excellent knowledge about electrical protection and it' different schemes.
- Electronic circuits design and power electronics.
- Ability to study any building/substation layouts in order to start electrical work in them.
- Good knowledge about hydraulic and pneumatic systems.

Papers & Publications:

- "The Effect of the Fault Impedance on the Performance of the Directional Over Current and Directional Earth Fault Relays in Compensated and Uncompensated Transmission Line Networks - A case study", "GCC Cigre Qatar 2016".
- "Enhancement of the steady state and transient performance for closed loop speed control of DC Motor using fuzzy logic algorithm", International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 IJERTV8IS100117 Published by: www.ijert.org Vol. 8 Issue 10, October-2019.