

CURRICULLUM VITAE.

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ELECTRICAL ENGINEER.

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PERSONAL INFORMATION.

Gender : Male
Born : 20 oct.1976
Nationality : Kenyan
Language : English and Swahili.
Marital status: Married

INTRODUCTION.

I am a mature and energetic enough Engineer currently working with MAYLEEN K. LIMITED in the Electrical projects department. In the larger department, I am involved in the construction and commissioning process of the tunkey High and low voltage distribution schemes now in Turkana County: This being RREC projects. My other responsibility is participate in all other projects for instance the ongoing Mbagathi and Uhuru Highway Footbridges in Nairobi.

I've been a project Engineer with TBEA International. My primary responsibility was to ensure the safety of both the workers and the Electrical equipment. I prescribe the safety procedures, supervise with the help of the technicians to make sure they meet the ISO regulation Standards and adhere to the standards laid down by the client. I supervise the subcontractors in terms of their technical capabilities, helped them to correctly interpret the electrical drawings, I gave guidance and leadership when needed and especially concerning the overall requirement of the project, checked the quality of the electrical apparatus before and after installation in a more or less pre-commissioning process. I coordinated with the other engineers on site to ensure quality work is executed. I provided necessary guidance to procurement team over the right company to be selected on different works, and at the same time provided necessary information concerning the choice of equipment to be used through research at different levels.

My experience has seen me and my team construct, test and commission a mega Nairobi c.b.d network project. The project incorporated a 220kv Transmission Substation within the City Centre, a vast underground 220kv Transmission line, and several underground 66kv distribution lines running through the crowded city. I also designed, executed, tested and commissioned an off-grid distribution equipment at Mfangano Island. A project that was characterized with enough logistical issues.

I boost of great experience in operation and maintenance: having worked in Kenya power as o/m in charge of kabarnet depot and thereafter 132kv switching Rivatex substation. I attained classes 15, 16 and 17 of the Substation and safety Rules and regulation. I also attained classes 6, 7, 13 and 14 for HV

safety and switching procedures. Am well acquainted too with remote switching and more so interpretation and remedies procedures for alarms in the control room.

I have extensive knowledge in power equipment commissioning, through a wide range of works that I have undertaken like the one above. My knowledge of s.c.a.d.a system design, installation and commissioning are also substantial. I had a short contract with NR engineering company as a chief HV engineer in charge of system operation, who were in charge of carrying out SCADA installation in all the distribution substations around the country. The roll out was impressive as we oversaw virtually all the system operations being monitored and controlled from the National Control Centre (NCC).

My strength has developed from reading power and Energy reference books. I do a lot of research when I meet some new technology. More to this I embrace team work a lot for I have a listening and sharing skill. I am bold enough in decision making and especially in crisis. I believe I am a good manager; I believe in myself. I am always in charge and full control when given a responsibility for the hunger I have for success.

SKILLS AND COMPETENCY.

- Have excellent knowledge in both Primary and Secondary power.
- High ability to read and interpret electrical Drawings.
- Well knowledgeable in troubleshooting techniques and the general maintenance of electrical equipment.
- I have proficiency knowledge in control and instrumentation Engineering.
- Excellent knowledge in Project implementation.
- Well skilled in the development of single line diagrams.
- Am well skilled in the Design and construction of Distribution and transmission lines: Taking into consideration the required span for different Voltages.
- Am quite competent in keeping with the safety of both equipment and workers having acquired competency classes; 15, 16 and 17 of the Kenya power safety regulation.
- Well skilled in the trouble shooting techniques in the distribution and Transmission sector.
- I have proficient knowledge in the maintenance of the Scada system.
- I have good coordinating skills, able to work with different groups of workers at the same time or in turns.
- I can well manage to supervise a large workforce taking into consideration their productivity and safety at the same time.
- I have an art of working with people with language barrier for example the Chinese.
- I am excellent in report writing and in periodic notifications of the work progress to those in authority.

I've done several projects under my supervision as Project supervisor and later as project Engineer with TBEA. Below is a highlight of amongst of them;

Item	Project Name	Project Scope	Commissioning YR.
1	Mfangano island off grid project	Constructed an 11kv, 15km distribution line with service lines. With a 5MVA generator.	Commissioned with serval service lines on.2008.
2	Kardinya-beach	12km 33kv Kardinya spur off Bondo - Usenge feeder.	-2010
3	Kendu-Homa bay connector.	33kv 19km link. Among the first concrete poles project in Kenya and first one in Western Region.	2007-2010
4	Amatsi-Water project	9km 11kv spur on Vihiga feeder	2008-2010
5	Fort tenant-siret link	Constructed a 33kv wooden pole HT line with service lines to link up Central to Western region.	2012
6	Likuyani Reinforcement.	A 33kv 3km HT line with several service lines	2012
7	Mayanja Customer Creation	A 5km 11kv single phase Kibuke spur with several lv lines	2012
8	Srisia Malakisi Line	A 33kv 25km line feeder to a new Sirisia a substation.	2013
9	Super Obunga	An 11kv line with several single-phase Tx's and energy meters installed above the HT line.	2013
10	Sikhendu feeder	A 33kv 5km spur off Webuye Kitale feeder with several service feeders.	2014
11	Embakasi- City Centre line	A 220 kv underground Transmission line with a GIS substation.	Commissioned 2020
12	City Centre-Parkland	A 66kv 8km UG line with a new bay at Parkland s/stn.	Commissioned 2020
13	city Centre-Lkoni Rd	2 CCTs of 66kv 13km line with a new Likoni substation.	Commissioned 2020
14	City-Centre-Nairobi west	A 66kv 5km UG line with a bay at Nairob West distribution substn.	Commissioned 2020
15	City-center-Cathedral feeder.	A 66kv 9km UG line to the Cathedral substation and up grading to GIS.	Commissioned 2020
16	City centre-Ragtii	A 4km 66km UG line to Ragati s/stn.	Commissioned 2020

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WORK EXPERIENCE

.KENYA POWER.

2006-2008. In charge of Emergency team-Kabarnet(Baringo county)

The full team an operator who received customer complaints, technicians and artisans who worked in the field. The roles of the team were as follows;

- Received and inserted customer complains using the integrated Customer service (ics)
- Coordinated with the available field team to attend to the customer's needs at the time.
- After work done am to clear by acknowledging the field team confirmation.
- Replacement of rotten poles.
- Switchgear operation during fault diagnosis on HV lines.
- Tree/bush clearing along the HV and LV lines.
- Replaced burnt HV and LV fuses on lines.
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2008-2010. Substation operator-Rivatex substation.{control}

My Work entailed;

- Controlling equipment such as the current converters, voltage Transformers, and circuit breakers that regulate the flow of the electricity through substation of Electric power System and over distribution lines to the consumers. Recorded data from the switch board instruments to compile data about the Quality of power used for substation operation and the amount distributed from the substation.
- Monitored the operation of the substation relays, such as; Differential, Distance protection, and Overcurrent, relays in the event of a line disturbance like an short circuit, overcurrent and open circuits.
- Communicated with the main Control Station (National Control Centre) about the amount of Load received and thereby receiving Switching instructions.
- Interrupted current flow by pushing buttons on the control board for repairs on the line and connected alternate circuit to carry the load.
- Monitored and recorded temperatures of the bulk Transformers and observed the levels of SF6 gas in the Breakers at given intervals.
- Calculated the average and peak load conditions from electric recording instruments, compiled them periodically for Future designs and alterations on the incomers and outgoes.
- Did simple repairs such as the replacement of defective fuses and switches, putting in place loosely mounted switchboard doors, and cleaning the batteries.
- Did an inspection as required to the Batteries, Circuit Breakers, Transformers, pumps and the Fence and report the same in case of a fault.
- Was typically in charge of all the works that were to be undertaken by contractors, supervising and guiding them on the safety procedures in a live substation. Received the Permit the Permit to Work on their behalf and cleared the same when time came for clearance.
- Acquired the Safety Classes for the general operation of all the switchgears in the substation.

- Monitored respective feeders (both in and out) in case of troubles and general power consumption.

3. **2010-2013.. Projects supervisor (Technician0**

My two main duties included; - Assisting in the design of new and reinforcement lines.

- Supervising the construction and thereafter commissioning of the constructed line.

My Duties in the Design of a- ;Survey of the project area , visited the communities that benefitted , got the geo-reference of the area like the roads, Features of the land ,Steep hills in Mfangano that favored flying spans, the

- Located the central points for the communities, like the schools, churches, hospital, the Amatsi water point and the Kodinya Social Hall.
- Recoded the distance between the households and the potential consumers and their categories.
- Sampled all the approximate power demands and therefore did calculate the approximate power demand. This enabled to coming up with the correct transformer and or Generator (Reference to Mfangano) Size in terms of HP, Kw or Kiva.
- Through the visit I came up with the correct Primary line Length.
- In my load calculation, I made sure the load doesn't exceed 50% of the nominal load, therefore factoring this in conductor sizing, Transformer/ Generator size.
- I did the approximate cost of the projects, with Mfangano being the trickiest of all. Being an island, transport by both water and land was factored in. Among the costs estimated included;
 - a) Material database-showed the cost of materials including poles (Both wooden and concrete), Cross arms, Insulators, binding wires among others Vis a Vis cost of the shipment.
 - b) Labor Database- This included the total cost of workers from the warehouse to the completion of the scheme.
 - c) Database on the cost of service drops to metering point.

The total investment cost in Worksheet form.

My responsibilities in construction; in conjunction with the other construction supervisors, we awarded schemes to competent and skilled contractors.

1. Inspected, verified and accepted or rejected some/ all materials supplied to our stores for use in our construction works.
2. Was responsible for all new electrical inspections related to new installations, Testing and commissioning.
3. Attended all the inspections in the company of the contractor/ contractor representative to make sure that the works were done in accordance to the ISO standards.
4. Organized for power interruptions in the existing live equipment in the event the contractor couldn't observe safe working clearances.

5. Prepared stores Transaction forms that enabled contractors to collect materials from the stores.
6. Did a routine inspection to contractors on site to determine whether they complied with the safety regulations as stipulated by the SAFETY HEALTH AND ENVIRONMENT regulation.
7. Assisted the contractors in the change of design just in case they met a way leave Hitch along the line under construction.
8. I made sure that the schemes were completed within the set period of time unless something unusual happened like the lack of material and/or way leave issues.
9. Prepared a completion and inspection documents that enabled the payment of the contractor.
10. Did handover of the completed schemes to the O/M team.

Management/ Administration Responsibility

- Made sure the customers see the face of the company in me by playing good customer relation:
 - I. Made sure that the customers got connected within the stipulated time frame after the award of customer schemes by making sure that those who didn't comply with the time were either surcharged or denied work.
 - II. Recommended the discontinuation of rogue contractors/ agents who solicited for bribes from the customers.
 - III. Played a mediation role between customers who fell out due to way leave issues.
 - IV. Provided guidance to contractors in cases where wrong designs and way leave were done.
 - V. Coordinated with the revenue team to make sure the customers consumption was charged from first day they were connected by making sure that the customer meter started counting immediately a drop was made.
 - VI. Coordinated with the stores department to make sure that all the excess materials picked by the contractors are surrendered back before the contractor was paid to avoid technical audit issues.
 - VII. First tracked the payment of the contractor; made sure I did the inspection of work in time, prepared the work completion form and signed the bill of quantities in time.

2016- To 2020 TBEA.

Preview

- I've been a great team player in the implementation of the NAIROBI CITY CENTRE E.H.V NETWORK UPGRADE AND REINFORCEMENT PROJECT. A KES 10 billion project.
- The project comprised of building new GIS 220kv substation within the c.b.d
- Transmission of 220kv by use of underground cables and therefore did lots of cable jointing, testing the insulation. Connection of the earthing leads and cable Termination on the gantry.
- The scope of the work being construction and monitoring for a year and half{ warrant in progress now}
- Implementation of the automation system (SCADA) for monitoring the equipment.

My duty as a Safety in charge and Projects Engineer in charge of the project.

1. I made sure that the 66kv underground cable was laid safely without interfering with the insulation.
2. Was in charge of the safety of civil workers who did the excavations for the foundations and thereby erecting the gantries for the new bays in the live substations. In this respect I had tool box meetings every morning. To make sure that we had the Permit to work before the start of the work.
3. Liaised with the Kenya Power Project Engineer in case of change of location of the new bay and advised the same to the project manager and the project Director.
4. Liaise and collaborate with the Local authority officials, the Water department and the police in the instances that require disturbances and interference on Road network and waterways.
5. Participated in the installation and pre-commissioning test of the GIs equipment for the 220kv and 66v substations. We did tests on;
 - Transformer test-core insulation test, insulation resistance test, vector group polarity among others.
 - Dielectric test, resistance measurement of the main circuits, temperature rise test, tightness verifications among others.
6. Team player in the installation, testing and commissioning of the SCADA system. A system for monitoring, measuring and by the use Human Machine Interface (H.M.I) to control the equipment.
7. Coordinated with provided technical assistance to s.c.a.d.a subcontracted Engineers, and the designers in order to properly integrate the control system to the monitoring system.
8. Provided Engineering, construction, Testing and commissioning support to the respective engineers in charge of the work.
9. Performed basic calculation such as the voltage drop, CT burden and saturation, lighting and short circuit with the help of the client Engineers.
10. Coordinated and communicated with the Project activities with the project Engineer and the Project manager together with the KPLC (clients) engineers at all times.
11. To the Casuals employed to assist in cable laying, positioning the Control cabinets and the general works, I provided leadership, guidance and instructions to them.
12. I took charge of everyone to make sure that work quality and accurate work was delivered to the client to avoid repeat job.

Other Responsibilities

- Ensured all the machines and tools used on site are regularly inspected and gone through Standardization authority (Kbs) and tagged. To make sure that they are stored in good aerated environment.
- I ensured that all the lifting procedures are done according to the provided safety procedures.
- Ensured that the subcontractors provided quality staff and/or machines on sites at all times.

- Ensuring and keeping records of daily occurrences on sites and providing them to relevant authority in times of need.

I have worked to a fortnight ago with the NR team from China in the implanting the SCADA system to be in operational in the country.

2nd Dec 2019- 5th May 2020- Kipeto Wind Power.

Consultant Electrical Safety and Energy at 400kv Isinya Substation.

2021-to date Mayleen K. limited.

I work as a project Engineer in charge of all electrical projects.

TRAININGS AND SEMINARS.

Unlocking once potential-One week seminar in 2013 at Abardares.

Safety Health and Environment training at Kenya Power Training School for one week in 2012.

Construction quality control Seminar; Two weeks seminar at Hotel Imperial Kisumu. 2011.

Aids Awareness campaign- one day seminar at hotel Imperial Kisumu.

EDUCATION AND TRAINING.

2013-2016-Bachelors' degree in Electrical Engineering from Moi University.

Second Class upper

Technical training.

1998-2000-Diploma in Electronics Engineering- Jomo Kenyatta University of Science and Technology.

Credit.

O-level

Mother of Apostles Seminary(C+)

HOBBIES

Reading.

A great fun of English Premier and Uefa League.

REFEREES

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