



**ELECTRICAL / MECHANICAL ENGINEERS**

We are Contractors for electrical mechanical works.

Our expertise includes electrical installation designs and implementation, substation protection and control, metering, MV line construction, fire detection, ICT, CCTV systems, Access Controls, testing and commissioning, communications, water and sanitation.

## OVERVIEW

KAL Engineering Services is a Uganda Limited Liability Company which was registered in June 2005 with the purpose of providing professional services in the Construction Industry. The steady growth of the business is attributed to the competitive pricing the company offers to its clients for reputable quality of work to be performed. This is easily monitored by the growing number of repeat customers the company is proud of.

The safety of the staff is taken as a key priority in all our activities.



Carrying out a circuit protective conductor test after installation At a residential house.

## Electrical Installations



Switch



Our scope in electrical installations includes high voltage substations erection, control and protection, Low voltage designs and installations, testing and commissioning of installations.

The substation work we have so far engaged in includes switchgear installations (GIS and AIS), HV cable terminations, low voltage cabling and terminations, relay configurations and testing, station DC supplies, SCADA and metering. Our scope has since widened to include engineering feasibility studies and project management.

Building services is also our major contracting activity. We have worked on various buildings ranging from industrial, commercial and domestic. Services offered include developing conduit plans, cabling, fittings, fire detection systems, access control systems, data and voice over VOIP or PBX systems, security systems, video and public address systems.

All projects are completed with relevant tests, shop and as built drawings.



Generator Machine



Protection and control bay Panels

## Mechanical Installations

Our scope in Mechanical works includes; gravity flow schemes, bore holes, pumping stations and installation of pressed tanks.

Water supply schemes we have engaged in so far include construction of reservoir tanks, construction of pump houses, water sumps, generator plant houses and water booster stations.



Side view of fenced water reservoir at Migyera.

We have laid many kilometers of water transmission and distribution networks using GI pipes, DI, HPDE, uPVC and the associated fittings. Our scope has broadened from pipes of 20mm to 300mm in diameter.

We have also engaged our activities to include construction of tower foundations and assembly. All our projects have been managed with great success.



Shower room at SMR, Entebbe



50,000 Litres water reservoir constructed at Migyera

Building services is equally a major activity in our business. All necessary internal and external plumbing for construction projects is within our scope of service delivery.



## OUR CUSTOMERS

These range from government institutions, contractors, telecommunication companies, housing estate managers, and private developers. Among the institutions of government, we have worked for

- ◇ National Housing and Construction Co. Ltd
- ◇ Uganda Prisons
- ◇ The Judiciary
- ◇ Uganda Revenue Authority
- ◇ Uganda Electricity Transmission Company Ltd as sub-contractors for a multinational contracting company.

We have also worked for Warid Telecom to construct GSM Towers in Lumino, Kaliro, Nyakaliro and Rwebishenku.

Our business contracted the installation of the satellite antenna on the roof top of MTN Mutundwe switching station.

Our business has been contracted for M&E works by reputable contractors such as SOLECO Uganda Ltd on projects like Ambrossoli International School administrative block, Entebbe Sisters' Monastery, Koome Island solar supply, Medical Access Warehouse in Bunga and on various projects for other private developers.

KAL Engineering was contracted by URA to assess the lightening and earthing adequacy on all URA offices country wide. The contract included study and implementation.

Design studies for Inter connecting 10MWp Solar Plant to the Grid and 1MW Biomass generation Plant in Gulu District.

We have tested and commissioned substations and transmission lines operated up to 132kV (a highest voltage level in Uganda) for National Contracting Company from Saudi Arabia on projects in the East African region.

Other works included commissioning 33kV switchgears for Aggreko International at Mutundwe.

We were contracted for M&E works during the development of Helkan Hostel near Makerere University, commercial apartments in Bukasa, Muyenga, commercial apartments for Newton Property Ltd in Bukoto near KK Health Club, Moringa Ogilvy offices in Bugolobi and a number of various residential and commercial buildings.

Other works include gravity flow scheme for Koome Island by Mukono district, Water supply for Migyera town council from a borehole including supplying and installation of the 50000litres pressed water tank on a 17m tower.





**KAWUKI PATRICK**  
*Managing Partner*

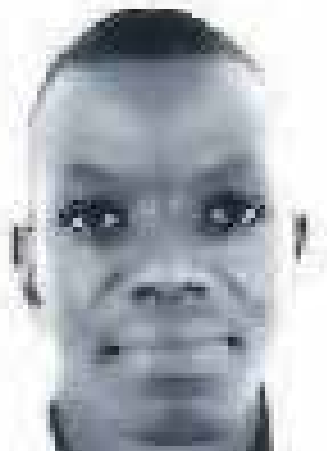
## FOREWORD

He holds a Master's degree in Business Administration from Heriot Watt University and Bsc. degree in Electrical Engineering from Makerere University and a member of Uganda Institution of Professional Engineers (MUIPE).

He has accumulated worthwhile experience in the field of electrical engineering, feasibility studies, project management and budgeting/costing for a period of 11 years in practice.

His employment career has exposed him to different specialties such as planning of electrical systems, power system protection and metering, communications and industrial control and monitoring systems, fire services, CCTV, data, testing and commissioning.

He has worked on several building service installations as an electrical engineer. His experience in electrical power is unquestionable given that he has worked for UEDCL and UETCL the largest utility companies in Uganda. He has participated in several professional trainings overseas and on job in Uganda.



**APOLLO LUMALA**  
*Director*

## FOREWORD

Apollo Lumala –Director

He holds a Bachelor of Science degree in Civil Engineering from Makerere University.

His experience in civil infrastructure projects including traffic and transportation, water supply and water treatment, civil and construction projects is of 11 years.

He has been involved in the planning and implementation of civil works and project management aspects.

Apollo has delivered turnkey projects such as Kivatule II housing project for National Housing on behalf of KAL Engineering.

The project was handed over to the satisfaction of the client.



**STEPHEN NSUBUGA**  
*Associate Partner*

## FOREWORD

Stephen Nsubuga –Associate Partner  
He is a civil engineer holding a Bachelor's degree in Civil Engineering from Makerere University and Msc in Water Science and Engineering from UNESCO-IHE Institute for water education.

He has accumulated 11 years of work experience in water engineering industry.

Before joining the private sector, Stephen work for National Water and Sewerage Corporation as a water/civil engineer Stephen has experience in water and sewerage system planning, operations, maintenance, development, rehabilitations, expansions and asset management.

His experience extends to procurement and project management. He has successfully managed the gravity flow scheme for Mukono District at Koome and Migyera community water supply project. He has also worked on buildings as a service engineer.



**CONTACT Us:**

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