

COMPANY PROFILE

2025



LOCATED AT MALCOMX,
KOLOLO

About Us

Bakaluba Engineering Consults is a multidisciplinary engineering and consultancy firm committed to delivering cutting-edge, reliable, and sustainable solutions across diverse sectors. We provide expert services in electrical engineering, telecommunications, renewable energy, mechanical systems, water infrastructure, civil works, and transport development.

We are also industry leaders in high-end security systems, fabrication and installation works, and supply of quality engineering materials and technologies. Whether executing a large-scale infrastructure project or deploying localized power and protection solutions, our work is guided by innovation, safety, and lasting impact.

Backed by a dynamic team of engineers, project managers, and technical specialists, Bakaluba Engineering Consults has become a trusted partner for governments,

institutions, NGOs, and private sector clients.

With every project, we strive not just to meet expectations but to exceed them, creating infrastructure that.

empowers progress, enhances safety, and sustains the future.

Our Vision, Mission and core values

Vision:

To become a leading regional force in delivering innovative, sustainable, and integrated engineering solutions that transform communities and power progress.

Mission:

To provide reliable, high quality engineering, design, and construction services across electrical, water, telecom, mechanical, and civil sectors through cutting edge technology, skilled professionals, and a deep commitment to safety, sustainability, and client satisfaction.

Core Values

- Integrity
- Excellence
- Innovation
- Safety
- Sustainability
- Client Focus
- Teamwork

OUR SERVICES

- Power plant sizing, construction, and maintenance
- Substation construction and maintenance
- Residential electrical installations
- Industrial electrical installations
- Electrical system design and analysis
- Solar system sizing designing, installation and maintenance
- Solar water heaters and water pumps
- Irrigation system design and installation
- Telecom tower construction and fiber cable laying
- Mechanical system installation and servicing
- Diesel generator repair and overhaul
- HVAC system setup and maintenance
- Plumbing and water pipeline installations
- Borehole drilling and pump installation
- Road and bridge construction
- Building construction (residential, commercial, industrial)
- Project supervision and consultancy
- Engineering software modeling (AutoCAD, ETAP, etc.)
- Land and topographical surveying
- Security systems (solar/electric CCTV, PTZ cameras, electric fences)
- Equipment and tool hire, material supply, and audits
- Biogas power plant sizing, designing, construction and maintenance
- Power lines construction and maintenance



SOLAR SYSTEM SIZING, DESIGNING, INSTALLATION AND MAINTENANCE

We specialize in providing end-to-end solar energy solutions, starting with accurate system sizing based on client energy needs and site assessments. Our team designs efficient, scalable solar systems tailored to residential, commercial, and industrial applications. We carry out professional installations that meet safety and performance standards, followed by reliable maintenance services to ensure long-term system efficiency and durability. Whether for grid-tied, off-grid, or hybrid systems, we deliver sustainable and cost-effective solar power solutions for both residential and commercial

SOLAR STREET AND FLOOD LIGHT INSTALLATION

We install durable, energy-efficient solar lighting systems including street and flood lights that enhance outdoor visibility and security while reducing electricity costs and promoting sustainable energy use.



Solar Street Light Installation

We design and install reliable solar street lighting systems for roads, estates, institutions, and public spaces. Our services include site assessment, pole erection, luminaire mounting, solar panel integration, and battery setup. These systems are fully autonomous, energy-efficient, and ideal for areas without grid access, enhancing safety and visibility with minimal maintenance.

Solar Flood Light Installation

We provide installation of high-performance solar flood lights for compounds, security zones, sports grounds, and industrial areas. Our solutions feature motion sensors, long-range illumination, and weather-resistant fixtures powered by solar energy. They offer excellent nighttime visibility, security, and operational cost savings without relying on the national grid.



POWER LINES CONSTRUCTION AND MAINTENANCE

We offer comprehensive power line services, including the construction of low, medium, and high-voltage transmission and distribution lines. Our work involves route planning, pole and tower erection, conductor stringing, and system integration in compliance with industry standards. We also provide routine inspections, repairs, and upgrades to ensure safety, reliability, and minimal downtime. Our team is equipped to handle both new installations and the rehabilitation of existing power infrastructure.





POWER SUBSTATION CONSTRUCTION AND MAINTENANCE

We undertake the construction and maintenance of power substations across various voltage levels, ensuring efficient and safe electricity distribution. Our services include site preparation, equipment installation (transformers, switchgear, circuit breakers, control panels), grounding systems, and system commissioning. We also perform regular maintenance, fault diagnosis, and component upgrades to guarantee optimal performance and reliability. Our expertise covers both conventional and compact substations for industrial, commercial, and utility-scale projects.

IRRIGATION SYSTEM SIZING, DESIGNING, INSTALLATION AND MAINTENANCE



We provide customized irrigation solutions designed to optimize water use and improve agricultural productivity. Our services include the assessment of land and water sources, system sizing, and the design of efficient drip, sprinkler, or surface irrigation setups. We handle full installation, including pumps, piping, filtration units, and control systems. Whether for small farms or large-scale agricultural operations, we ensure reliable, cost-effective, and sustainable irrigation systems tailored to specific crop and soil requirements.



BUILDING CONSTRUCTION

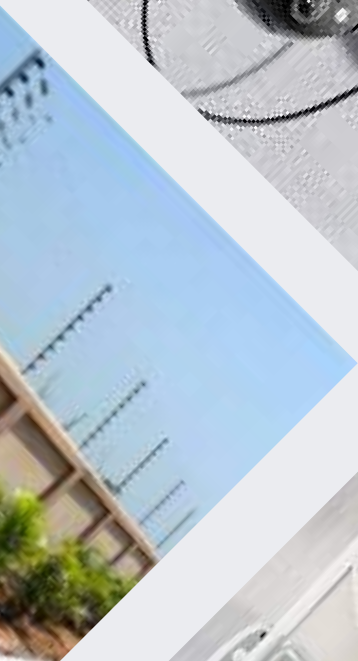


Building and Civil Construction Works
We provide a full range of construction services encompassing both building and civil engineering works. Our expertise covers the design and construction of residential, commercial, and industrial buildings, as well as critical infrastructure such as roads, bridges, dams, and power plants. From site preparation and structural works to finishing and commissioning, we deliver durable, safe, and cost-effective solutions tailored to client needs. With a commitment to quality, engineering excellence, and compliance with standards, we ensure successful execution of projects across urban and remote settings.



SECURITY SYSTEMS INSTALLATION

We provide advanced security solutions designed to protect residential, commercial, and industrial premises. Our services include the design, supply, and installation of modern surveillance systems such as solar and electric-powered CCTV, high-performance PTZ (Pan-Tilt-Zoom) cameras, and electric fencing for effective perimeter protection. Each system is customized to meet specific security needs, with options for remote monitoring, backup power solutions, and integrated control. We ensure reliable, 24/7 security systems that offer real-time surveillance, deterrence, and peace of mind.





SOLAR WATER HEATER SIZING, INSTALLATION AND MAINTENANCE

We offer expert solutions for both electric and solar water heating systems, tailored to domestic, commercial, and institutional needs. Our services include accurate system sizing based on hot water demand, customized design for energy efficiency, and professional installation to ensure safety and performance. We also provide routine maintenance, repairs, and upgrades to extend system lifespan and reliability. Whether off-grid solar systems or conventional electric heaters, we deliver cost-effective, eco-friendly water heating solutions.

INDUSTRIAL AND RESIDENTIAL ELECTRICAL INSTALLATIONS

Commercial Electrical Installations

We specialize in commercial electrical installations for offices, retail spaces, schools, hospitals, hotels, and other business facilities. Our services include electrical system design, wiring, lighting, power distribution, backup systems, and energy-efficient solutions tailored to commercial operations. We prioritize safety, reliability, and compliance with electrical codes, ensuring smooth business operations with minimal disruptions.



Residential Electrical Installations

We provide safe and efficient residential electrical installations for homes and apartment complexes. Our services cover wiring, lighting, socket installation, circuit breaker setup, and integration of home automation and backup power systems. Every project is executed with attention to detail, prioritizing safety, functionality, and long-term reliability for modern living.



BIOGAS DIGESTER SIZING, DESIGN, CONSTRUCTION AND OPERATION

We offer complete biogas solutions, starting with accurate sizing based on feedstock availability and energy demand. Our team designs efficient digester systems tailored for domestic, institutional, and agricultural applications. We handle the construction using durable, locally appropriate materials and proven technologies to ensure optimal gas yield. In addition, we provide training and support for proper operation and maintenance, promoting clean energy generation, waste management, and sustainable fuel alternatives.

FABRICATION WORKS



We offer high-quality fabrication services, delivering custom-built metal structures and components for industrial, commercial, and residential applications. Our expertise covers a wide range of works including steel structures, gates, windows, doors, tanks, trusses, frames, grills, railings, ladders, signage, and specialized equipment.

With precision engineering, modern tools, and skilled craftsmen, we ensure every fabrication project meets strict standards of strength, durability, and finish. Whether it's structural steelwork for large-scale projects or detailed artisan metalwork, we pride ourselves on reliability, safety, and exceptional workmanship—making us one of the best in the industry.



SUPPLY OF MATERIALS, GOODS AND SERVICES



We provide reliable and timely supply of high-quality engineering materials, tools, and equipment to support construction, electrical, mechanical, and civil engineering projects. Our offerings include electrical fittings, cables, solar components, plumbing supplies, structural steel, building materials, safety gear, and more—sourced from trusted manufacturers and distributors.

In addition to materials, we offer professional engineering services such as technical support, logistics coordination, and customized procurement solutions. With a commitment to quality, affordability, and prompt delivery, we ensure our clients get the right products and services to keep their projects running smoothly and efficiently.





CONTACT US

Location:

Malcom X Avenue, Kololo East Primary School

Phone Contacts:

+256 782 472200

+256 774 255599

+256 779 082857

Email:

bakalubaengineeringconsults25@gmail.com

www.bakalubaengineeringconsults.com

Facebook:

[Bakaluba Engineering Consults.](#)

TikTok:

[@bakalubaengineering](#)