



**IMAGINATION  
ENGINEERED**







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# WHO WE ARE

AGAK Consulting Engineers (AGAK) is a Dynamic Engineering and Management Consulting Firm offering multi-disciplinary Engineering Services which are affordable and need-orientated. We are committed to quality service and result-orientated solutions within the constraints of financial, social and environmental factors.

AGAK was established in 2018 by Eng Babirye (Babs) Kagga. AGAK is affiliated to KABA Consulting Engineers and Project Managers, its partner firm in South Africa. These firms are recognised as professionally managed consulting engineering firms in South Africa and Uganda. Each team member offers a range of combined experience in their areas of specialty.

## MISSION

Improve the quality of life for communities by providing comprehensive, integrated, cost effective and innovative engineering solutions.

## VISION

AGAK's vision is "To provide professional engineering services efficiently and of the highest standards and ensure that we always meet our Clients' goals and needs"

## HEALTH AND SAFETY

We ensure the Health and Safety of our Employees, Clients, Contractors and Communities within which we work, using structured systems and processes.

Owners Engineer Isimba Hpp (183mw)



# Our Team



**Eng. Babirye Kagga REng**  
Managing Director

Eng. Babirye Kagga is a registered professional Engineer in Uganda and South Africa. She holds a Master in Civil Engineering from the University of Southampton in UK, and Bachelors in Civil Engineering with Environmental Management from University of Birmingham, UK. With well over 25 years' in leading and designing water supply, sanitation, and road projects in India, Uganda and South Africa. She has worked on several water supply projects in Uganda; designed landfill sites including Burgersfort in Fetakgomo Tubaste Local Municipality and Libageni at Dr JS Moroka Local Municipality in South Africa. Involved on the Vaal River Eastern Sub System Augmentation Project worth 1.7 billion rand.



**Mr. Sonny Kgatitsoe**  
Director, Southern Africa

Sonny Kgatitsoe has acquired multidisciplinary skills covering 17+ years-experience in various sectors including, Mining and Construction, Agriculture, Manufacturing, Commercial and Residential Property, Water and Sanitation, Telecommunication, Information Technology, Energy, Financial Services as well as Logistics and Warehousing (Air, Freight and Rail).

He also carries extensive experience in the Public and Partnership Projects for both Local Government and Municipalities in South Africa. Some of his Flagship Projects are, Transactional Advisor to advice management on the status of the Sinking Fund, Conducting of Feasibility Study to Explore the Possibility of Using Energy Power Saving Bank to Save the Cost of Bulk Purchase Electricity and Tariff Modelling Review.



**Eng. Meme Kagga**  
Director, Projects

Eng. Meme Kagga is an Electrical Engineer, and holds a Master in Electrical & Electronics Engineering and Management from the University of Birmingham, UK. She has expertise in Project / Program Management, Design, Construction Supervision and Inspection of Electrical and Communications systems in sectors including Hydro-power, Power, Infrastructure, Transport, Infrastructural Asset Evaluations, Resettlement Action Plans and more.



# Our Team



**Nantume Sheilah**  
Head, Business Development

Shiella holds a bachelor's degree from the university of kyambogo, she has extensive knowledge and experience in competitive bidding and Administration in line with ISO standards. Shiella is in charge of the business development



**Sylvia Namwano**  
Head Property Management



# FEILDS OF OPERATION

AGAK carries out the following activities:

AGAK is speacilaised in Transportation, Water Supply and Sanitation, Buildings and Structures, Energy, Architectural Services, Infrastructure Asset Management, Private Public Partnership Arrangements, Environmental and Social Impact Assessment.

## PROJECT PLANNING

- Planning,
- Pre-feasibility Studies,
- Pre-Investment Studies
- Feasibility Studies.

## ENGINEERING DESIGN

- Preliminary Designs
- Detailed Design
- Take Offs and Cost Estimates
- Tender Documentation.

## MANAGEMENT

- Technical Assistance;
- Programme Planning;
- Financial Planning;
- Training of Staff and Personnel

## CONSTRUCTION & SITE MANAGEMEN

- Supervision of Construction Works;
- Project Management.



# Water Supply

AGAK carries out the following activities:

- ▶ Water retaining structures (Reservoirs, Valley Tanks etc.)
- ▶ Water Reticulation Systems
- ▶ Water Resources Planning, Development And Management
- ▶ Water Transfer Systems
- ▶ Environmental and Social Impact Assessment
- ▶ Pump stations
- ▶ Dams
- ▶ Irrigation Schemes.
- ▶ Ground Water Engineering







# Energy

AGAK carries out the following activities:

Our services cover all aspects of a project from pre-feasibility and feasibility studies, detailed engineering and project management, to tender documents, construction supervision and commissioning.

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**Our very competent and experienced personnel is able to provide the following services:**

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- ▶ Resource Identification and Feasibility Studies;
- ▶ Refurbishments and Upgrades;
- ▶ Reservoir Optimisation and Design and
- ▶ Generation Output Modelling Substations;
- ▶ Transmission and Distribution Lines;
- ▶ Hydraulic Design.
- ▶ Energy Storage Systems (Battery Banks) for Municipalities



AGAK is experienced in the Planning Process or Feasibility Studies, Preliminary and Detailed Designs; Tender Documentation and Construction Supervision/Monitoring of all its infrastructure. AGAK explores new possibilities and strives to lessen management, administrative and coordination burdens and stress for our clients' projects to provide long-term, sustainable value.



Wastewater Collection At Public Stand Pipes  
Kina Village

**Our services include:**

- ▶ On-Site waste water management;
- ▶ Solid Waste Management;
- ▶ Wastewater collection systems;
- ▶ Water and waste treatment.

# Sanitation Systems

AGAK carries out the following activities:





# Transportation

AGAK carries out the following activities:

## Transportation Engineering

- ▶ Roads and Highways;
- ▶ Bridges;
- ▶ Rail;
- ▶ Airports, Ports and Marine.

### Our Services include:

- ▶ Pavement rehabilitation design
- ▶ Road geometrics and drainage system design
- ▶ Bridge planning and design
- ▶ Integrated Master Planning
- ▶ Environmental impact studies and mitigation planning
- ▶ Preparation of Works contract documentation
- ▶ Contracts administration and construction supervision
- ▶ Network planning and project identification studies
- ▶ Route planning, economic analyses and feasibility studies
- ▶ Management of paved and unpaved road network maintenance and upgrading programmes.



# Structures & Buildings

AGAK carries out the following activities:

We deliver creative solutions for building projects for industry, government, commercial and leisure sectors. Our building engineering specialists have expertise in structural and building services engineering and acoustics design. We embed sustainability principles in every design. We have expertise in these structures:

- ▶ Residential and human settlements
- ▶ Shopping Centres
- ▶ Office Blocks
- ▶ Water retaining structures
- ▶ Bridges and culverts
- ▶ Business and industrial parks



Resettlement Housing Project, Kingfisher Area | CNOOC Uganda



# Architectural Services

AGAK carries out the following activities:

AGAK uses appropriate technology, combined with an intimate knowledge of state-of-the-art building materials, to create economical and innovative designs across the full spectrum of Architectural Design, Structural and Electro-mechanical Engineering requirements for:

- ▶ New-build
- ▶ Preservation
- ▶ Renovation
- ▶ Additions
- ▶ Master Planning
- ▶ Design-Led Construction







Design, Build Finance, Operate and Transfer Social Housing Units at Ext 76 (208 Units),  
Polokwane Municipality



Design, Build Finance, Operate and Transfer Social Housing Units at Ext  
107 (754 Units), Polokwane Municipality, Polokwane Housing Agency



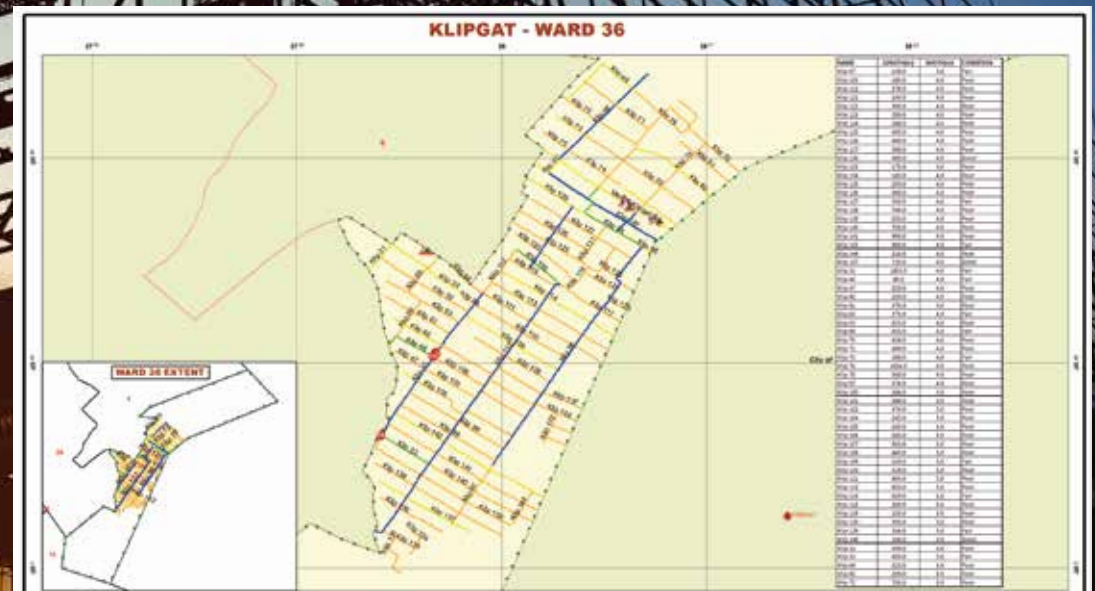
# Infrastructure Asset Management (IAM)

AGAK carries out the following activities:

AGAK provides comprehensive Infrastructure Asset Management services in compliance with the Generally Recognised Accounting Principles (GRAP 17) Property, Plant & Equipment. AGAK Consulting Engineers uses its ROMDAS and IMQS equipment to collect most of its field data. AGAK Consulting develops Asset Management Policies and Asset Management Programmes to assist different Municipalities in future development and Planning of their infrastructure as well as maintenance programmes.

## Our services include:

- ▶ Develop Comprehensive Infrastructure Fixed Asset Registers;
- ▶ Develop Asset Management Policies;
- ▶ Develop and monitor Infrastructure Maintenance Plans;
- ▶ Develop Geographical Information Systems (GIS).





# Investigations and Services

AGAK carries out the following activities:

AGAK pays attention to environmental, social, occupational health and safety considerations in the delivery of sustainable infrastructure solutions. Through a robust partnership programme, AGAK is able to seamlessly integrate relevant external capabilities with its own multidisciplinary offering of services such as:

- ▶ Environmental Authorisations
- ▶ Environmental Management
- ▶ On-site Construction Control
- ▶ Social Impact Assessments, and
- ▶ Occupational Health and Safety.

The teams include qualified and skilled Environmental Engineers, Scientists, Sociologists, Psychologists, economists and analysts with local and international experience in their respective fields.





# Public Private Partnerships (PPPs)

AGAK carries out the following activities:

AGAK offers Technical Advisory Services for infrastructure projects including transportation, buildings, energy and water. AGAK has participated on several PPPs in Southern Africa, led by their Southern Africa, Director, Mr Kgatitsoe. Currently he is involved in the "Preparation of a full Bankability Feasibility Study for the Limpopo Science and Technology Park Project, identification and obtaining commitments from potential anchor tenants, and soliciting funding for the construction of the park in South Africa estimated at capital cost of R8 Billion", "Maintenance of Mechanical Infrastructure for 21 Dams and Pump Stations in the Orange Vaal Area for the Department of Water and Sanitation with a maintenance programme budget of R1,3 Billion" and "The setting up of a Quarry with 35,000 aggregate tons per month production capacity to rehabilitate a borrow-pit, earmarked for the development of 2,000 mixed use development by the City of Tshwane in South Africa.

Our PPP services have facilitated service delivery especially in Municipalities, in developing unique design solutions that produce significant value for money in the overall project cost.



# Membership to Professional Institutions

Our staff is affiliated, chartered and registered with the following professional bodies:

- ▶ Engineer Registration Board, Uganda (ERB).
- ▶ Uganda Institution of Professional Engineers: UIPE
- ▶ National Environmental Management Authority Uganda (NEMA).
- ▶ The Engineering Council of South Africa (ECSA);
- ▶ South African Institute of civil Engineers (SAICE);
- ▶ Institute of Civil Engineers (ICE) in the UK;
- ▶ South African Council for Project and Construction Management Professionals



Where necessary in the life cycle of the project, AGAK Consulting will bring on specialised personnel of repute, to assess and advise on specialised aspects of engineering.

## RESOURCES

The firm currently employs four professionally registered Engineers who are all assisted by various qualified and experienced teams to carry out their duties.

As a fully interdependent firm we are able to draw on resources from different partners in different fields to meet workloads and provide the required expertise matched to the project or clients' needs.



# Clients



THE REPUBLIC OF UGANDA  
Ministry of Water and Environment



UGANDA NATIONAL  
ROADS AUTHORITY  
Connecting Uganda



water & sanitation  
Department  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA







dr.jsmlm  
Dr JS Moroka Local Municipality



THABA CHWEU  
LOCAL MUNICIPALITY



# Projects

 <p>THE REPUBLIC OF UGANDA Ministry of Water and Environment</p>	<p><b>PROJECT</b> Consultancy Services for the Design Review of Shuuku – Matsyoro Phase II and Nyabuhikye – Kikyenkya Phase II Under Framework Contract.</p> <p><b>CLIENT</b> Ministry of Water and Environment, Water and Sanitation Development Facility-East</p> <p><b>LOCATION</b> Mbarara and Ibanda District.</p> <p>2025</p>	 <p>THE REPUBLIC OF UGANDA Ministry of Water and Environment</p>	<p><b>PROJECT</b> Consultancy Services Assignment 3: Detailed Design and Construction Supervision of Water Supply Systems of Kikandwa - Kasambya (lot 14), and Butenga - Kawoko (lot15).</p> <p><b>CLIENT</b> Ministry of Water &amp; Environment – Shuuku – Matsyoro Phase II</p> <p><b>LOCATION</b> Kikandwa - Kasambya and Butenga – Kawoko, Uganda</p> <p>2017-2018</p>
 <p>THE REPUBLIC OF UGANDA Ministry of Water and Environment</p>	<p><b>PROJECT</b> Consultancy Services for Feasibility Studies and Detailed Designs of piped water Supply and sanitation systems for selected small towns &amp; RGCS in some parts of mid and South Western Uganda: LOT 5: Ryakarimira Town Council, Rwenshaka RGC, Kabura Town Council Water Supply and Sanitation Systems</p> <p><b>CLIENT</b> Ministry of Water and Environment, Water and Sanitation Development Facility- South Western Branch</p> <p><b>LOCATION</b> Ryakarimira Town Council, Rwenshaka RGC and Kabura Town Council</p> <p>2019 - 2021</p>	 <p>THE REPUBLIC OF UGANDA Ministry of Water and Environment</p>	<p><b>PROJECT</b> Consultancy services for Asset Revaluation for National Water and Sewerage Corporation</p> <p><b>CLIENT</b> Ministry of Water and Environment, Water and Sanitation Development Facility-East</p> <p><b>LOCATION</b> National wide (Uganda)</p> <p>2017 - 2018</p>
			<p><b>PROJECT</b> Consultancy Services for Design and Construction Supervision of Buhuka Gravity Flow Scheme at the Kingfisher Area, in Hoima</p> <p><b>CLIENT</b> CNOOC Uganda</p> <p><b>LOCATION</b> Hoima</p> <p>2018 - 2019</p>



# Projects



## PROJECT

Consultancy Services for the Upgrading and Rehabilitation of Access Roads in Kanungu, Kween and Butalejja.

## CLIENT

International Fertilizer Development Centre (IFDC)

## LOCATION

Kanungu, Kween and Butalejja.

2018-2019



## PROJECT

Consultancy Services for a Two year framework contract for Data collection on Unpaved National Roads, Lot 4: Eastern Region

## CLIENT

Uganda National Roads Authority (UNRA)

## LOCATION

National wide (Uganda)

2017-2019



## PROJECT

Consultancy Services for the Provision of Owner's Engineers for Isimba Hydro Power Plant

## CLIENT

Uganda Electricity Generation Company Limited (UEGCL)

## LOCATION

Kayunga

2018-2019



## PROJECT

Consultancy Services for Design Review and Construction Supervision of Resettlement Houses.

## CLIENT

CNOOC UGANDA

## LOCATION

Hoima

2017-2019



# Projects



## PROJECT

Consultancy Services for Value for Money Audit / Assessment of Municipalities participating in USMID-AF Projects

## CLIENT

Office of the Auditor General (OAG)

## LOCATION

Kanungu, Kween and Butalejja.

2018-2019



## PROJECT

Consultancy Services for the Design Review and Construction Supervision of the Masaka Bukakata Road (41Km)

## CLIENT

Uganda National Roads Authority (UNRA)

## LOCATION

Masaka, Uganda

2018-2019



## PROJECT

Consultancy Services for the Design Review and Construction Supervision of Community Access Roads in Selected Sub-counties of the CAIIP – 8 Districts of Kisoro, Kanungu, Rukungiri, Ntugamo, Mitooma, Rubirizi, Bushenyi and Sheema,

## CLIENT

Ministry of Local Government.

## LOCATION

Kisoro, Kanungu, Rukungiri, Ntugamo, Mitooma, Rubirizi, Bushenyi and Sheema,

2018 – 2018



## PROJECT

Consulting Services for Feasibility Design, Detailed Design and Construction Supervision of Mbale Water Supply and Sanitation, including small towns of Butalejja, Busolwe, Budaka, Kadama, Tirinyi and Kibuku, WB funded project

## CLIENT

Ministry of Water and Environment










## LOCATION

Mbale, Uganda

2017-2018



# Projects

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	 	<p><b>PROJECT</b> Provision of Technical Expertise for exploring the sustainability of Burgersfort Landfill Site on a PPP basis, and raising of funds for Burgersfort Landfill Site as part of Financial Sustainability model for 36 months</p> <p><b>CLIENT</b> Fetakgomo Tubaste Local Municipal Municipality</p> <p><b>LOCATION</b> Fetakgomo Municipality, South Africa</p>	2023-2024
	 	<p><b>PROJECT</b> Provision of Technical Advisory Services for the sourcing of Neighborhood Development Grant and integrated electrification grants which are not included in the DORA for Fetakgomo Municipality</p> <p><b>CLIENT</b> Fetakgomo Tubaste Local Municipal Municipality</p> <p><b>LOCATION</b> Fetakgomo Municipality, South Africa</p>	2023-2024
	 	<p><b>PROJECT</b> Provision of Technical advisory Services for the acquisition of electricity license in Burgersfort, Steelpoort and Ohrigstad for revenue enhancement purposes</p> <p><b>CLIENT</b> Fetakgomo Tubaste Local Municipal Municipality</p> <p><b>LOCATION</b> Fetakgomo Municipality, South Africa</p>	2023-2024



# Projects



## PROJECT

Provision of Transaction Advisory Services for the Development of a Private Hospital and Urban Development in Harry Gwala District Municipality (HGDM)

## CLIENT

Harry Gwala District Municipality (HGDM)

## LOCATION

Harry Gwala District Municipality (HGDM), Kwa Zulu Natal, South Africa

2020 - 2021



## PROJECT

Provision of Transaction Advisory Services for the Development of Renewable Energy Supply in Harry Gwala District Municipality (HGDM)

## CLIENT

Harry Gwala District Municipality (HGDM)

## LOCATION

Harry Gwala District Municipality (HGDM), Kwa Zulu Natal, South Africa

2020 - 2021



## PROJECT

Feasibility Study for the implementation of a 90MW Solar Plant and the Feasibility Study to explore the possibility of using energy power saving bank to save cost of bulk purchase of electricity

## CLIENT

Mogalakwena Local Municipality

## LOCATION

Mogalakwena Local Municipality

2019 - 2020



## PROJECT

Consultancy Services for the Request for Proposal for the proposed solution for the City of Polokwane's Energy Optimisation Programme

## CLIENT

Mogalakwena Local Municipality

## LOCATION

Mogalakwena Local Municipality

2019 - 2019



# Projects



## PROJECT

Consultancy Services for the Development of Preliminary Designs for a shopping mall, fuel station, service centre, tyre fitment centre, "truck-in" and passenger accommodation in Mokopane

## CLIENT

Polokwane Local Municipality

## LOCATION

Polokwane Municipality, South Africa

2018 - 2019



## PROJECT

Consultancy Services for Feasibility Study to explore the possibility of using energy power saving bank to save cost of bulk purchase of electricity

## CLIENT

Polokwane Local Municipality

## LOCATION

Polokwane Municipality, South Africa

2018 - 2018



## PROJECT

Technical services for the Design, Build, Finance, Operate and Transfer (DBFOT) of approximately 741 GAP Housing units in Extension 107, and 190 Social Housing Units in Extension 76 in Polokwane

## CLIENT

Polokwane Local Municipality

## LOCATION

Polokwane Municipality, South Africa

2018 - 2018



## PROJECT

Professional Service for compilation of the Infrastructure Asset Register for Thaba Chweu Local Municipality

## CLIENT

Thaba Chweu Local Municipality

## LOCATION

Limpopo Province, South Africa

2015 - 2016





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