



MARISWE

IMPROVING LIVES
ENGINEERING SOLUTIONS

Company Profile

Transportation \ Water & Sanitation \ Infrastructure Planning & Advisory
\ Asset Management \ Structural Engineering \ Project & Contract Management

Mariswe (Pty) Ltd is a South African-based infrastructure advisory company providing tailored infrastructure services to clients. Over 50 years we have been delivering **civil engineering consulting services** in areas of water and sanitation, structures and transportation while also providing infrastructure planning, project management and diversified services.

With a strong track record of successful project delivery, we have a proud tradition of excellence in providing engineering solutions with integrity across the African continent.

Our people are

- Specialists, revolutionising the way we deliver infrastructure;
- Solutionists, who have the power to solve problems and get the job done;
- Synergists, engineering improvements for a better coordinated infrastructure;
- Starters, breaking new boundaries; and
- Seekers who understand a need to continually expand our knowledge.

Quality and innovation are the drivers of our company. We rigorously monitor, evaluate and continually improve our performance and effectiveness in line with our QMS and ISO 9001 to produce optimum innovative results for our clients.

Our pledge is to focus on improving people's lives in everything we do.

mariswe – verb (colloq.) Improving lives through engineering solutions.



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Mariswe (Pty) Ltd snapshot 2026

OPERATIONS

50+ years experience



People employed at Mariswe (approximately):

140



6

Number of active offices in South Africa.

Mariswe operates subsidiary firms in Ghana and Tanzania and has a branch office in Lesotho.

The company has completed, or is working on, projects in Botswana, Burkina Faso, Democratic Republic of Congo, eSwatini, Kenya, Liberia, Madagascar, Mauritius, Mozambique, Namibia, Rwanda, Sierra Leone, Uganda, and Zimbabwe.

OWNERSHIP

Level 1

BEE Contribution level on the DTI's Construction Sector Codes of Good Practice.

Improved performance in employment equity and preferential procurement.



62.75%

BLACK SHAREHOLDING



29.12%

BLACK WOMEN SHAREHOLDING



Investing in communities remains our pride and joy. Our social responsibility programs continue to contribute positively to improving lives of our beneficiaries.

R230 208,68

Spent on uplifting communities through socio-economic development.

SPENDING ON

Skills Development



STAFF DEVELOPMENT

AMOUNT SPENT ON TRAINING

R521 292,41



INTRODUCTION

Since its establishment in 1972, Mariswe's objective has been to improve people's lives through the provision of civil engineering, planning and management services for sustainable infrastructure.

Over 50 years of experience serves as a foundation upon which Mariswe is built. Despite the prevailing industry challenges within the construction sector, Mariswe remains strong, confident and ready to serve existing and new clients.

Mariswe's strong presence across 6 South African offices allow us to work closely and directly with our clients. The depth of engineering skills in all these offices enable us to deliver projects of any scale in our core disciplines of Transportation, Water and Sanitation, Structures and Infrastructure Planning. Our project delivery is largely through civil engineering consulting and project management capabilities. We have resources throughout the country to ensure project focus, while utilising our local offices for project context which enable client and community interaction.

We have grown our experience on the continent, having delivered projects within and outside of South Africa for decades, and are well poised to contribute to delivering the infrastructure required for future generations and economic development.

Our solutions-based culture has led us to broaden our client base, offering a leading role throughout the project lifecycle from planning, design, construction and closure of a project.

Public-Private-Partnerships

Over the past six years we have grown in the planning and execution of groundbreaking Public-Private-Partnership (PPP's). Our multidisciplinary approach to projects has moved us from being conventional team members to being project leaders and innovators. PPP Advisory Services have become critical to funding public infrastructure in times where public sector financial resources are competing between enabling economic infrastructure, whilst still serving socio-economic needs. Some of the PPP projects we have delivered include the following:

City of uMhlathuze Local Municipality Wastewater Reuse

Appointed as Transaction Advisors (Lead Firm and Technical Lead) for the investigation and feasibility studies for the PPP project with a focus on the circular economy and sustainable service delivery, South Africa.

The New Roche Bois Wastewater Pumping Station and New Baie Du Tombeau Wastewater Treatment Plant

Transaction Advisory Services (Lead Firm, Technical Lead) for The New Roche Bois Wastewater Pumping Station and New Baie Du Tombeau Wastewater Treatment Plant, Mauritius.

National Metrology Institute of South Africa (NMISA)

Transaction Advisory Services (Lead Firm, Technical Lead) for the new Head Office and Laboratories, South Africa.

Innovation Hub

Transaction Advisory Services (Lead Firm, Technical Lead) for the new Commercial Building, South Africa.

DHET's student infrastructure programme at four selected public universities & TVET colleges in SA

The Development Bank of Southern Africa (DBSA) appointed Mariswe as the Transaction Advisors (Lead Firm, Technical Lead) for the Department of Higher Education and Training's (DHET) student infrastructure programme at four selected public universities & TVET colleges, South Africa.

Kopanong Precinct

Appointed as Transaction Advisors (Lead Firm and Technical Lead) for the Kopanong Precinct Project to establish an integrated, spatially linked building complex (19 buildings) for improved office accommodation for the Gauteng Provincial Government, South Africa.

Lobatse Prison Rehabilitation

Transaction Advisors (Lead Firm and Technical Lead) for the Prisoner Rehabilitation Centre at Lobatse for the Botswana Prison Service.

Centrum and Virginia Airport Redevelopment Project

Transaction Advisors (Lead Firm and Technical Lead) for this eThekweni Metropolitan Municipality project in the context of the landmark Municipal Asset Transfer Regulations (MATR), South Africa.

// We engineer solutions which build communities because we are passionate about improving people's lives."



Mhlengano Water Supply in Eswatini

AN EMPOWERED SOUTH AFRICAN COMPANY

Mariswe is 100% employee-owned with 45.34% direct shareholding, 32.65% by the Mariswe Black Employee Trust (MBET), and 22.01% held by the Mariswe Share Trust.

Level 1

BEE Contribution level on the DTI's
Construction Sector Codes of Good Practice



62.75 %

BLACK SHAREHOLDING



29.12 %

BLACK WOMEN SHAREHOLDING

50+

YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

Mariswe is registered with the following professional organisations:

- The Engineering Council of South Africa (ECSA);
- The South African Black Technical and Allied Careers Organization (SABTACO);
- Consulting Engineers South Africa (CESA);
- The South African Road Federation (SARF);
- The Institute of Municipal Engineering of Southern Africa (IMESA);
- The Water Institute of Southern Africa (WISA);
- Southern African Asset Management Association (SAAMA);
- South African Institute of Civil Engineers (SAICE).



MANAGEMENT & DIVISIONS

The board of directors is responsible for the overall governance of the company. Management and operations are overseen by a management committee (Manco) which includes the Chief Executive Officer (CEO), Chief Financial Officer (CFO), divisional heads and infrastructure advisors. The CEO (Nonkululeko Sindane), assisted by an executive committee (Exco), manages day-to-day business between meetings of the Board and Manco.

The Company services clients throughout Southern Africa from across 6 South African offices based in Gauteng, Eastern Cape, Western Cape, and KwaZulu-Natal.

Each office has dedicated executive managers responsible for discipline-specific business units, who report to the division heads. The division heads are responsible for operations and ensuring company-wide capacity and providing discipline-specific leadership and oversight to projects and business units in the company.

GOVERNANCE



STRATEGY & CORPORATE SERVICES



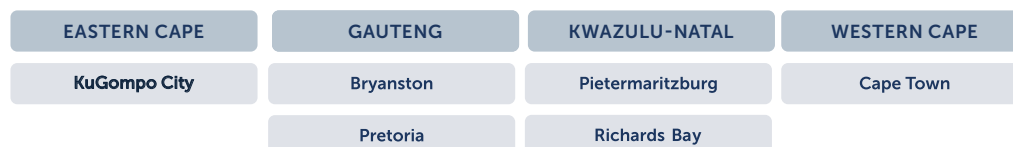
ADVISORY & CIVIL ENGINEERING SERVICES



TECHNICAL SUPPORT FUNCTIONS



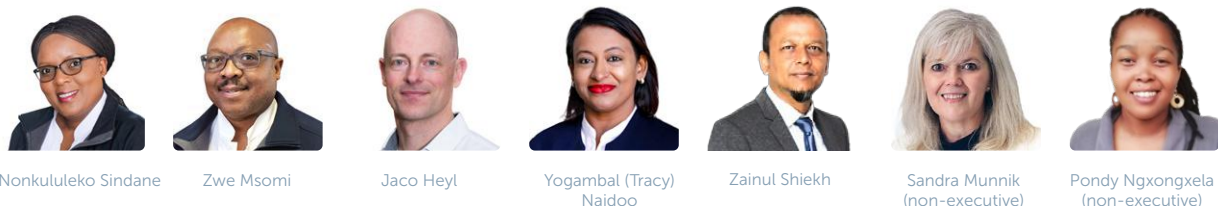
NATIONAL FOOTPRINT



INTERNATIONAL OFFICES



BOARD OF DIRECTORS



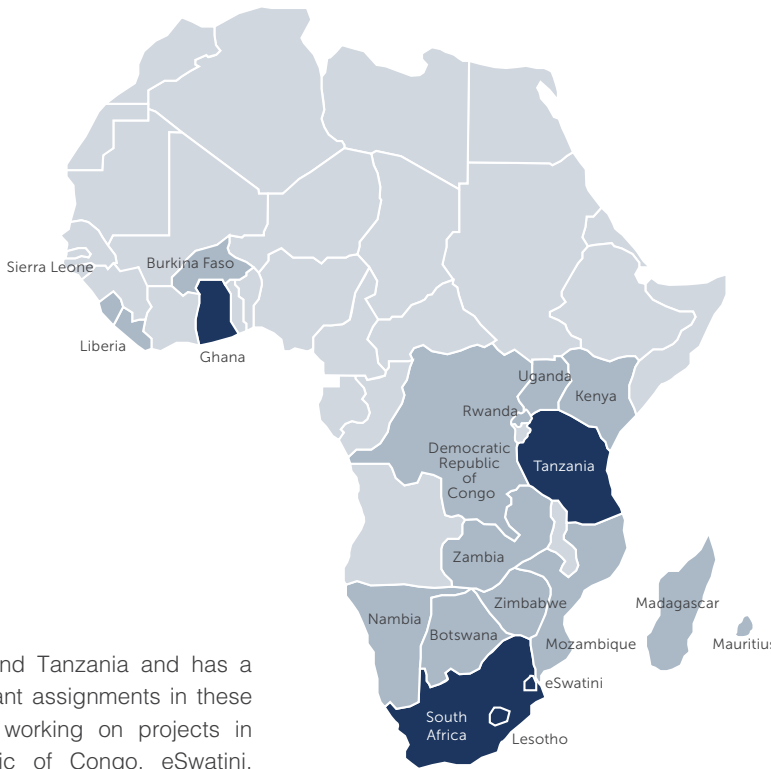
OFFICES



ROOTS IN AFRICA

Mariswe operates subsidiary firms in Ghana and Tanzania and has a branch office in Lesotho. In addition to significant assignments in these countries, the company has completed or is working on projects in Botswana, Burkina Faso, Democratic Republic of Congo, eSwatini, Kenya, Liberia, Madagascar, Mauritius, Mozambique, Namibia, Rwanda, Sierra Leone, Uganda, Zambia and Zimbabwe.

Mariswe has completed assignments on projects funded by a range of development finance institutions including the European Commission, World Bank, Millennium Challenge Corporation and Development Bank of Southern Africa, among others.



Offices & ongoing projects throughout Africa

- Office
- Project



ASSURED OF QUALITY

Mariswe's Quality Management System has held ISO 9001 certification since 2007 and is currently ISO 9001:2015 certified. The company has an active environmental management system. Our projects are guided by our Project Online Management Guide based on PMBOK® Principles. A number of Mariswe employees have professional project management qualifications, namely SACPCMP with experience leading multi-national projects.



PROFESSIONAL INDEMNITY INSURANCE

Mariswe has company professional indemnity insurance of up to R129 million for every claim and is able to increase this figure as required to meet specific project needs.



ETHICALLY DRIVEN

Mariswe's Social and Ethics Committee ensures that the company acts ethically and with integrity in its relationships with internal and external stakeholders. The Mariswe Code of Conduct and a Business Integrity Management Policy serve as anchors for all employees in the company. These are aligned with the codes and policies of Consulting Engineers South Africa (CESA), the Construction Industry Development Board (CIDB), and the International Federation of Consulting Engineers.



STAFF DEVELOPMENT

Mariswe has a policy of recruiting and retaining high quality, professional staff.

Through a well-managed process of staff assessments, combined with client project performance feedback, we strive to ensure that high service levels are maintained.

Our staff development strategy includes induction training, mentoring, coaching, bursary support for undergraduate and postgraduate qualifications, attendance at workshops and conferences, on-the-job training, in-house workshops and actively supporting Continuing Professional Development (CPD).

Bursaries are available to all permanent Mariswe employees pursuing qualifications that align with their job responsibilities and the company's strategic objectives.

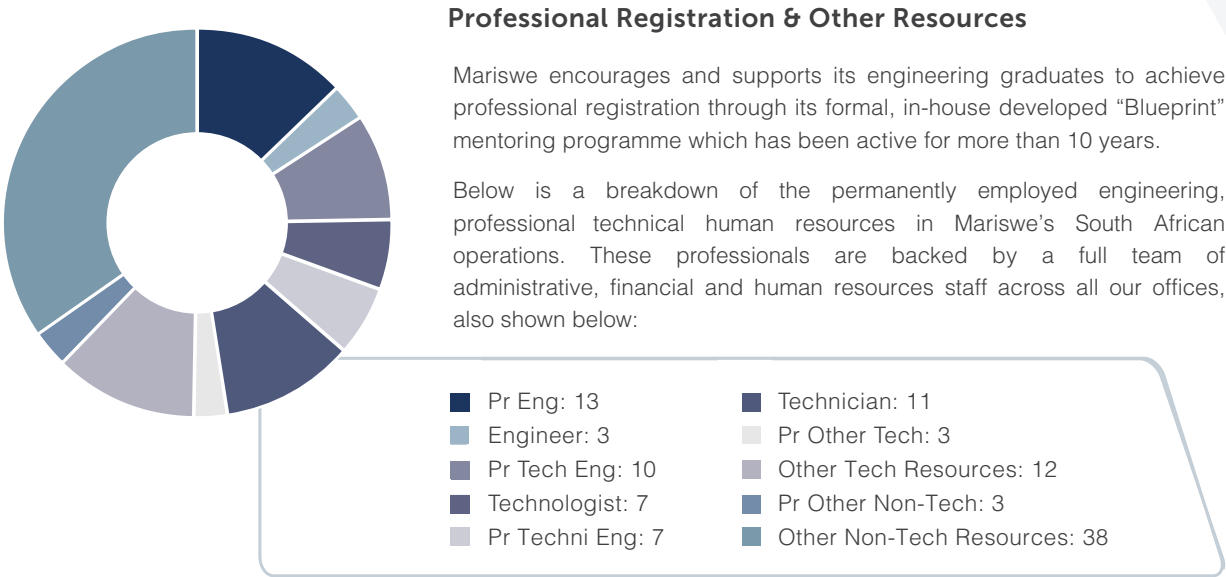
Leadership Development

Mariswe supports careers and not just jobs. As part of its employee development strategy the company offers two programmes to prepare employees for future leadership roles within the company:

- A **Leadership Development Programme (LDP)** providing structured learning for any staff member identified as having leadership potential;
- **Training for Succession**, a programme for individuals identified for growth into specific positions.

The LDP aims to develop selected employees through internal and external training, mentoring and coaching to fill leadership roles in the future. Up to 10 employees are selected annually to join the three-year programme.

Employees who complete the LDP are eligible to be considered for senior management positions as identified by Manco.



Young Professionals

Taking their cue from CESA's Young Professionals Forum (YPF) for professionals under the age of 35 in the built environment sector, Mariswe's young professionals have established their own support group within the company known as HYPE (Helping Young Professionals Excel). HYPE provides a platform where the young professionals at Mariswe can network, share issues of common interest, and help one another and the company to grow and prosper.

A RESPONSIBLE CORPORATE CITIZEN

Mariswe believes the long-term sustainability of its business and the environment in which we work can only be achieved by playing a direct role in the empowerment of communities and small enterprises. Responsible corporate citizenship is central to our ethos of *Improving Lives. Engineering Solutions.*

The company's support falls into three broad areas:

- Socio-economic Development;
- Supplier Development;
- External Bursary Programme.

Socio-Economic Development

Mariswe promotes employee involvement and volunteerism in its socio-economic development support programmes. Branch offices identify projects to positively impact beneficiary communities. Aside from individual projects identified annually, the company has launched "Nurture a Girl" programme and supports the CESA Job Shadow as ongoing initiatives.

Nurture a Girl

Mariswe's Nurture a Girl initiative was launched in 2017 to help empower South African girl learners by reaching out to the less privileged communities to support girls in secondary schools.

Mariswe annually sponsors 50 female learners in Grades 8 to 12 around South Africa, some of the beneficiaries remain with the programme over several years. They are also given structured opportunities to attend workshops and presentations on subjects close to their hearts, receive career advice and learn basic life skills.

The beneficiaries are chosen by their teachers in schools near Mariswe's offices and mentored by Mariswe staff.

Mariswe invites other businesses to help expand the initiative by sponsoring a girl for a year or contributing to general sponsorships. Mariswe's research to launch the programme yielded a long list of potential beneficiaries at our partner schools – and we are currently addressing just the tip of the iceberg.



Nurture A Girl visiting a school in Pietermaritzburg



CESA Job Shadow Initiative

As part of the effort to ignite a passion in technical careers and STEM subjects (Science, Technology, Engineering and Mathematics) among learners, Mariswe's young professionals (YPs) have proudly hosted more than 1 000 learners through CESA's Job Shadowing Initiative and Poster Competition since inception 12 years ago. Every year learners from schools around South Africa are introduced to the work done in, and outside our offices by our civil engineers and given personal insight into some of our most interesting projects through guided site visits.



Supplier Development

Mariswe is partnering successfully with several Exempt Micro Enterprises (EMEs) and Qualifying Small Enterprises (QSEs) around South Africa. All are professional service providers in the infrastructure/built environment sector and potential suppliers of services to Mariswe and its clients.

Emerging businesses in Mariswe's supplier development programme receive exposure to potential clients, access to professional guidance, assistance with compliance and cash flow management among other benefits that help them remain sustainable and relevant to industry needs.

Mariswe's supplier development partners have complementary competencies that add value to Mariswe and our clients. We have partnered with some of our Supplier Development Partners in projects that we are executing where there is alignment of technical or project management skills. This is crucial for our respective professional and technical growth as well as enhancing professional relations.

Bursary Programme

Recognising a need to develop not only its own staff but also a broader pool of technical skills, Mariswe has an active bursary and grant programme providing financial support to external applicants and the children of employees.

External Bursaries

Mariswe provides a limited number of bursaries in South Africa to students who have successfully completed at least one year of study in BSc (Eng, BEng, BTech) or post graduate studies in civil engineering at recognised South African universities and universities of technology.

Children of Employees

In 2008, Mariswe established an internal fund to assist the children of eligible employees in completing their secondary school education. Over the past 12 years, the scope of the Mother Theresa Fund has expanded to include financial support for primary, secondary, and tertiary education, depending on the needs of the families involved. The aim is to provide the children of Mariswe employees, as well as those for whom Mariswe employees are legal guardians, with opportunities to realize their full potential.



TRANSPORTATION

Mariswe offers integrated transportation planning and engineering services throughout the infrastructure lifecycle, from concept and design to construction, operations, and maintenance. The company employs qualified professionals and places a strong emphasis on delivering quality engineering solutions that incorporate the latest global technologies and a fit-for-use approach. Building on over 50 years of experience in providing sustainable transportation engineering and planning services across sub-Saharan Africa, our multidisciplinary service offering includes:

Design and rehabilitation of roads and runways

Design investigations, route planning and optimisation, surveys, identification of construction materials, geometric and pavement design, and preparation of tender/contract documentation, drawings, and construction supervision for:

- Rural and urban roads and runways;
- Bus rapid transport systems;
- Mine access roads and plant platforms;
- Roads and parking areas for public and private building developments;
- Airport runways, taxiways and aprons;
- Rehabilitation of existing roads and freeways;
- Rehabilitation and upgrading of existing airport runways.

Transportation planning and traffic engineering

Road based transportation planning ranging from transportation networks to public transportation and traffic engineering studies, including:

- Impact assessments;
- Traffic control and management;
- Public transport, bus and taxi facilities and pedestrian facilities;
- Network planning;
- Cost-benefit analysis;
- All processes involved in the development of integrated transport plans.

Output and Performance Based Road Contracts

Output and Performance-Based Contracting (OPRC) has proven highly beneficial for the design, build and maintenance of both paved and unpaved road networks globally. It ensures all-weather access for remote communities to essential social services, markets, and neighboring areas. Additionally, OPRC reduces asset deterioration, maintains acceptable service levels, and optimizes government funding for these networks.

Mariswe has been involved in several Output Performance Based Roads Contracts (OPRC) roads projects in Africa over the past decades through all project phases including:

- Inception, Assessment and Feasibility Studies
- Concept and Preliminary Design
- Tender Documentation and Bid preparation and
- Construction Monitoring

These projects have been implemented in Lesotho, Ghana, Rwanda, and Zambia. Mariswe has built capacity among local organisations and governments to manage road assets and understands the importance of these projects to creating enabling infrastructure that contributes to the economic growth of the country or region in which they are implemented.



WATER & SANITATION

Mariswe provides comprehensive water and sanitation engineering services from planning and design to construction management. These include:

- Water resource planning and studies;
- Situation assessments and catchment studies;
- Reconnaissance, pre-feasibility and feasibility studies for water resource developments;
- Bankable feasibility studies for new mining and industrial developments;
- Management and co-ordination of multidisciplinary planning studies;
- Infrastructure planning, design and construction;
- Dams, weirs and river abstraction works;
- Bulk raw and treated water pump stations and reservoirs;
- Bulk conveyance systems including canals and large bore pipelines;
- Urban reticulation for water supply and sewage networks;
- Irrigation systems;
- Solid waste disposal;
- Water conservation, demand management, leak detection and leak control;
- Water source development and bulk supply systems for mining and industrial developments;
- Development and support for water services authorities;
- Institutional structures for operation and maintenance;
- Operate, maintain, train and transfer projects;
- Floodlines;
- River diversions;
- Basic water and sanitation services;
- Rural water supply schemes;
- Water treatment works;
- Waste-water treatment works;
- Wellfield development and borehole equipment and abstraction;
- Trenchless sewer and water pipe rehabilitation (CIPP and pipe cracking);
- Transactional advisory services for Public Private Partnerships (PPPs).

We have substantial experience in large multidisciplinary water and wastewater treatment projects, including process engineering, civil, mechanical and structural design of new treatment works, upgrading and refurbishment of existing works, process optimisation and design review.

Mariswe has undertaken several water resources planning studies, reconnaissance studies and water services infrastructure master plans for the public sector as well as mining and other private clients.



STRUCTURAL ENGINEERING

Mariswe's expertise spans a wide variety of structural forms and material types. We offer analytical and design services for civil, commercial, industrial, institutional, health and residential structures.

The individual team members have experience in projects including high-rise buildings, bridges, industrial buildings, shopping centres, hospitals, schools, cold storage facilities, distribution warehouses, civil engineering structures, mining structures and water-retaining structures among others.

We aim to create structural schemes that are suitable for purpose, sensibly economical, and sustainable, further considering the potential impact of climate change. Uncomplicated structural solutions that are easy to build provide good benchmarks. Our focus on sustainable structures includes reducing a structure's carbon footprint through use of recycled materials and appropriate technologies.

Specific areas of expertise include:

- Pre-stressed and reinforced concrete design for civil engineering and building structures;
- Structural steel design for civil engineering and building structures;
- Facade and curtain walling design and detailing;
- High-rise and commercial buildings;
- Advanced finite element design and application in bridge and building design;
- BIM (Building Information Modeling);
- Green buildings and sustainable engineering design;
- Assessment and rehabilitation of buildings and civil engineering structures;
- Dynamic analysis and seismic design;
- Bridge management systems;
- Fast-track project management;
- Transactional advisory services for Public Private Partnership (PPP) contracts;
- Water retaining structures (reservoirs and water towers).





PROJECT & CONTRACT MANAGEMENT

Mariswe provides professional project management services based on the Project Management Body of Knowledge (PMBOK®) principles. We have developed our own Project Online Management Guidelines, integrated with our Quality Management System and business processes. Our team includes several qualified professional project managers to support this service. We also have extensive experience managing and executing the World Bank format of Output and Performance-Based Contracting (OPRC), specifically in the roads sector (Output and Performance-Based Road Contracting, OPBRC). These contracts follow a design-build-maintain format and require expertise in contract design and management, including various contract types (FIDIC, NEC).

Services include:

- Project programme development;
- Project management support;
- Scope management;
- Budget control;
- Resource and communication management;
- Risk and performance management;
- Supply chain management.

Contract and Programme Management

- Support to public and private sectors in managing multi-year infrastructure and extensive project portfolios;
- Management of development, economic and social programmes;
- Programme design and administration;
- Stakeholder management;
- Grant fund management support;
- Financial administration;
- Training and capacity building;
- Procurement support;
- Contract administration.

Construction Management

- Development of project implementation and procurement strategies;
- Management of the procurement process including tender documentation and adjudication;
- Compilation of construction contract documentation using one (or more) of NEC, FIDIC, GCC and Mariswe's own Integrated Construction Unit (iCU) contract methodology;
- Preparation of baseline construction resource schedules, project budgets, construction programmes and management;
- Procurement of materials and services and logistics management;
- Management and administration of capital works, rehabilitation and maintenance contracts;
- Management of public sector construction and maintenance units;
- Engineering, procurement and construction management (EPCM);
- Engineering, procurement and construction (EPC) contracts in partnership with engineering contractors for the rendering of turnkey solutions to clients who prefer to contract with single entities.



Development of a Housing Strategy for Lonmin



INFRASTRUCTURE PLANNING & ADVISORY

Mariswe formulates strategic-level multi-stakeholder plans for the development and life-cycle management of infrastructure. This takes cognisance of institutional, legislative, social and environmental imperatives in parallel with project constraints such as time and budget.

Infrastructure Financing	Infrastructure Planning & Management	Infrastructure Regulation	Infrastructure Auditing & Mapping
• Project identification & scoping; • Pre-feasibility & feasibility studies; • Business plans; • Infrastructure costing; • Project finance structuring; • Funding applications. 	• Infrastructure master plans; • Integrated transport plans; • Infrastructure management systems; • Water services development plans; • Traffic impact assessments; • Public transport plans; • Sustainable development plans; • Land use plans; • Road management systems. 	• Legal and statutory development advisory & compliance e.g. • Water services; • Municipal systems & municipal services; • Blue Drop & Green Drop compliance; • Land use planning & management; • Roads & transportation; • Human settlement development. 	• Economic & social infrastructure audits; • Road safety audits; • Infrastructure mapping; • Geographic information systems. 
			Capacity Building & Institutional Development • Stakeholder coordination, engagement, management & facilitation. 

Services include:

- Strategic planning, programme development and management consulting services;
- Specialised assistance with feasibility studies and basic services delivery;
- Use of GIS (Geographic Information Systems) and other software platforms;
- Planning for Integrated Development Plans (IDPs), Water Services Development Plans (WSDPs), land use and zoning, institutional arrangements, forestry management and transportation;
- Infrastructure mapping and infrastructure management systems;
- Legal and statutory issues;
- Information and communication technology;
- Regional and local economic development;
- Planning and feasibility studies for industrial and eco-industrial parks;
- Training and capacity building for clients, emerging consultants and learner contractors in water and sanitation management and governance;
- Social liaison and facilitation;
- Financial, budget and programme management.

We also consult on socio-economic services including local, regional and sectoral economic development strategies, spatial development frameworks and economic and social infrastructure audits.

Infrastructure Advisory

A core high-level team explores opportunities for Mariswe to combine management, planning, consulting and project-specific expertise in the provision of comprehensive project life-cycle solutions in diverse sectors. This includes agriculture, mining and telecommunications infrastructure where Mariswe already has strong project experience, as well as emerging sustainable markets. The Infrastructure Advisory Team focuses on the private sector, public private partnerships (PPPs), and institutional finance organisations such as World Bank.



ASSET MANAGEMENT

Any organisation or utility that makes use of assets and infrastructure to produce a product or provide a service, is reliant on the efficient and effective use, operation and maintenance of such assets or infrastructure. Asset Management (AM), is a sector specialist field and consists of technologies, tools, systems, processes and people that combined with appropriate financial planning, assist a utility in optimising performance and managing its risks. **Maintaining your fixed asset register does not mean you maintain your assets!**

At Mariswe, we apply a comprehensive **Asset Management Life Cycle** that supports our clients in achieving long-term value from their infrastructure. This structured process includes **Requirements Definition**, ensuring alignment with user needs and strategic objectives. Also included in the process is **Asset Planning and Budgeting**, **Procurement and Creation**, and the active stages of **Asset Operation and Maintenance** through to **Performance, Condition Assessment and Monitoring**. As assets age or needs evolve, we manage **Renewal, Upgrading and Rehabilitation**, and responsible **Decommissioning and Disposal**. These processes are reiterated based on circumstances on the ground and evolve to meet client demands. By managing each stage rigorously, Mariswe helps **reduce risk, optimise service and product delivery**, ensuring that **assets perform reliably and efficiently over their full life cycle**.

With our engineering and consulting background of more than 50 years, we have an in-depth understanding of the importance in having functional infrastructure to assist in service delivery, especially in a developing country context. Mariswe has met the registration requirements of the Southern African Asset Management Association (SAAMA) and now offers Asset Management Services as a dedicated professional discipline.

We offer the following services that support the Asset Management Life Cycle:

Business Process Analysis

Applying a systems-thinking approach, we perform business analysis on the existing assets under management or control to establish an asset profile and an understanding of the product or service being delivered. The business processes such as Standard Operating Procedures, enabling environment including people, tools, technology and funding are also assessed together with information management on assets. This assessment informs the required strategy, actions and funding requisites for continued asset management improvement.

Asset Management Planning

Asset management should be formalised to ensure its uptake and application in an organisation. The development of an asset management strategy, action plan, management plan, operations and maintenance plan, forms part of such a process, which is an iterative process.

An organisation has to review and amend its plans informed by historic and current asset management information, but also its future obligations or goals.

Asset Procurement Assistance

Mariswe develops detailed specifications for the procurement of asset management systems or physical assets that align with an organisation's business requirements, ensuring a streamlined and effective procurement process. Our experienced project and construction management professionals manage and oversee the construction and commissioning of assets. This includes ensuring specifications and process are in place to handle and manage information of the newly-commissioned assets.



Asset Management Support and Specialist Services

Assets should be optimally used for the duration of their useful life, or longer if possible (must be economically sustainable). However, should assets fail, there will be specific reasons such as in the case of water pipe bursts that lead to frequent service interruptions. Mariswe can assist with the identification of root causes and making appropriate recommendations for addressing non-revenue water (NRW); or development of asset rehabilitation plans.

Management of non-sewered sanitation is another area of concern that requires a specific framework and approach to manage safely – for both the consumer and the environment. Specific infrastructure sectors may require specific asset management approaches. We have a diverse team of specialists that can be drawn from, to assist a client whether in the water & sanitation; roads & stormwater; transport; energy; facilities or other sectors. Finally in the asset management life cycle there is asset decommissioning or disposal. We support the circular economy and sustainable living therefore aim to assist a client in not only the optimal use of an asset, but also its appropriate reuse or retirement.

Training and Capacity Building

A skilled workforce supported through great leadership are indispensable qualities of a progressive and prosperous organisation. Mariswe can facilitate formal and informal training to clients in the use of asset management systems; establishing Standards Operating Procedures; update and review of asset management, operations and maintenance plans; financial planning and budgeting; and more.

Learn-by-doing is a very effective method of training as well as learning from others. Mariswe facilitates peer learning sessions or partnerships that can in turn assist a client towards continuous improvement in asset management.

The Asset Management Life Cycle:





NLD 5/6 project - Combination Plough laying fibre optic infrastructure along the N2

NICHE AND SECTOR SPECIFIC SERVICES

Information and Communications Technology (ICT)

Mariswe has established a comprehensive work group for the effective implementation of telecommunications construction projects. Member firms specialise in telecommunication network (transmission technology and fibre) design, engineering and deployment services as well as the provision of network operations centre services. This is combined with Mariswe's expertise in project management, construction contracts, contract procurement and civil engineering services.

The following services are offered for ICT infrastructure:

- Route survey and basic planning;
- Geotechnical investigations;
- Detail designs and construction drawings;
- Wayleaves and permitting;
- Contract strategy and documentation;
- Procurement of contractors and suppliers;
- Risk assessment and management;
- Establishment of project management offices;
- Site supervision and commissioning;
- Site close-out and handover.

The following transmission planning services are provided by member firms:

- Transmission and infrastructure planning;
- Procurement of transmission equipment service providers;
- Planning and installation of active equipment;
- Operation and maintenance of optical fibre network;
- Network operations centre.

Integrated Construction Unit (iCU) System

Mariswe's iCU system is a construction risk management methodology suited to dynamic project environments that need rapid responses to changes in the pace, nature, scope and sequence of the works. Our Integrated Construction Unit contract methodology is a custom-built contractual framework, specifically designed to maximize efficiency, minimize risk, and drive cost savings in complex and dynamic project environments. Unlike conventional contracts, which often lead to budget overruns, disputes, and rigid execution, iCU provides a bespoke, collaborative approach that we develop, implement, and manage for our clients. Since its launch in 1985, iCU has been successfully applied across hundreds of infrastructure projects spanning mining, agriculture, forestry, and civil engineering, with an aggregate project value exceeding 1.2 billion dollars. **Important features of our iCU system are:**

- Contractual flexibility;
- Construction cost savings up to 30%;
- Reduced lead times for fast track projects;
- Reduced disputes due to collaborative and team-oriented approach;
- Suitable for FIDIC and NEC4 contract platforms;
- Includes ISO 9001 accredited quality assurance procedures.

Agriculture

Mariswe's experience in the design and supervision of agricultural infrastructure projects extends over more than 25 years. Our clients include government departments and private sector companies. The company has successfully concluded several major private sector development projects in southern Africa incorporating the following:

- Dams;
- Canals;
- Pump stations;
- Large diameter pipelines;
- Irrigation systems;
- Land clearing and preparation;
- Dairies, Piggeries & Broiler farms.



Middelburg WTW

Mining Infrastructure

Mariswe has worked closely with numerous project houses in the mining sector, successfully undertaking design and construction management assignments in South Africa, SADC countries and beyond.

We have also completed a wide variety of projects directly for mining houses. These include capital optimisation studies, restructuring of open pit mining contracts, as well as the design and construction management of mining and civil infrastructure. Our knowledge of the challenges of implementing projects in Africa enables us to provide valuable input into due diligence studies, bankable feasibility studies and project planning.

Mining infrastructure services offered by Mariswe include

- Design and construction management of bulk and mining infrastructure;
- Water resource planning and licensing, together with water balance analyses;
- Storage, conveyance and treatment of raw water;
- Effluent treatment and disposal;
- Access and haul roads (surfaced and gravel) including bridges and drainage structures;
- Heavy duty and special purpose pavements for use by off-highway mining vehicles and equipment;
- Runways and airfields;
- Mining structures: structural steel, reinforced concrete, composite structures, buildings;
- Tailings disposal and return water infrastructure;
- Hydrological studies including floodline determination, storm water management and river diversions;
- Civil services for process plants, mining areas and residential areas;
- Formulation of project specifications and conditions of contract for both underground and open pit mining operations;
- Contract administration incorporating resource management, financial management and contract dispute resolution.



Lithium Zulu Mine

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