

# COMPANY PROFILE





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# INTRODUCTION

ILISO Consulting is an African Consulting Engineering and Project Management firm that specialises in engineering, environmental and project management services.

Established in 1995, ILISO Consulting is widely recognised as one of the most professionally managed consulting engineering firms in Africa today, with a team of directors and senior executives who are experts in their chosen fields. Each member of this formidable team offers a range of combined experience in their areas of specialty. In addition, ILISO Consulting has over 250 highly competent technical and support staff, all working together to deliver sustainable high quality assets that not only meet but also exceed client expectations.

With an enviable portfolio of award-winning contracts, ILISO Consulting is fully established in South Africa (all the major centres), Namibia (Windhoek), Uganda (Kampala) and Zambia (Lusaka). Furthermore, it undertakes projects beyond these borders in collaboration with strategic partners located in various countries, including: Botswana, Nigeria, Lesotho and Mauritius.

With its strategically located offices and with the practical application of science and engineering principles that include the appropriate use of technology, ILISO Consulting continues to advance on its successes by building value for its clients through the successful planning, implementation and management of landmark and community-based projects.

Thanks to a clear vision, a commitment to living its values and above all, its outstanding people, the reputation associated with the ILISO Consulting name is that of integrity, innovation, quality and service excellence.

## VISION

To be a significant brand and great company, trusted by our industry and loved by our employees.

## MISSION

To contribute to and prosper by the development of Africa's infrastructure, to ensure a better future.

ILISO Consulting's core purpose and mission is to provide a full range of high quality innovative, appropriate, cost effective and sustainable engineering solutions that satisfy the needs of its clients and the communities it serves. The company's directors and staff strive to use their expertise to make a meaningful contribution to the eradication of poverty and improve the quality of life for the people of the African continent.

This is ILISO Consulting's professional commitment and its imperative towards the realisation of the African Renaissance.





## In order to achieve its vision and mission, the company:

- Provides superior technical quality and appropriate engineering solutions on all projects
- Offers an unparalleled treatment and service quality to all its clients, thereby developing sound customer relations and customer satisfaction
- Employs world-class quality, experienced and highly-motivated staff while continuously identifying and nurturing young, energetic and intelligent individuals to realise their full potential
- Creates opportunities for innovation and the advancement of its staff
- Implements sound business management principles and effective strategies to ensure long-term viability and growth of the company.

## OWNERSHIP

Since its establishment, the founding members of ILISO Consulting have elected that shareholding within the company will reflect its philosophy. The ILISO Consulting philosophy is to be known as an independent professional practice, owned and managed entirely by engineers and technologists who demonstrate exceptional competence, professionalism, honesty and integrity.

ILISO Consulting is 100%-owned by engineers who work for the company on a full-time basis and more than 95% of its shareholding is held by black individuals.

## MANAGEMENT

ILISO Consulting is managed by its board, comprising of nine executive and two non-executive members with equal voting power. The Board is responsible for all statutory functions relating to the company, including: strategy, goals, policies and overall leadership.

The day-to-day management of the company's operations has been delegated to various executive directors, technical directors and executive managers.

## EMPLOYMENT EQUITY

ILISO Consulting is committed to the development and advancement of each and every one of its employees, regardless of race, gender or disability. ILISO Consulting has created a work environment that is free of discrimination and where individuals may develop to their full potential.



## MENTORSHIP & TRAINING

ILISO Consulting has always maintained that it is imperative for the company to achieve excellence in all of its business activities and remain at the forefront of technology and engineering ingenuity. To this end, ongoing coaching, mentoring and training forms an integral part of the ILISO Consulting Human Resources Development Programme. Within this Programme ILISO Consulting offers its employees vertical job enrichment, career planning and career advancement opportunities. In addition, ILISO Consulting offers Bursary Schemes to learners from disadvantaged communities, by providing significant career opportunities to learners and contributing to the future of engineering excellence in South Africa.

## SKILLS TRANSFER

ILISO Consulting is committed to the transfer of skills to current and potential employees, which result in a contribution to the continued growth and development of the consulting engineering industry in Africa. ILISO Consulting is committed to a number of formal on-the-job training and mentorship programmes, which are facilitated by its highly experienced consulting engineers.

## ENTERPRISE DEVELOPMENT

In its quest to create a better living environment for all Africans, ILISO Consulting remains committed to the development of SMMEs and SMEs by making use of their services as suppliers or to assist with projects whenever additional resources are required.

## SOCIAL RESPONSIBILITY

ILISO Consulting facilitates a number of social responsibility projects that contribute to the communities in which it operates. These include the company's annual participation in Nelson Mandela Day and its annual Job Shadow initiative. This initiative represents ILISO Consulting's way of giving back to the development of the Industry. School learners between grades 10 and 12, from disadvantaged schools, who excel in Maths and Science are given the opportunity to spend a "day in the life of an engineer". The objective of this initiative is to encourage learners to consider engineering as a career of choice. This initiative also assists ILISO Consulting in earmarking potential learners for its annual bursary scheme.







## ACCOLADES

**ILISO Consulting is proud to have received industry recognition through the following accolades:**

2013: SAICE Branch (PMB) and National Awards: Winner – Structural Engineering Award in Technical Division. **PROJECT:** Improvements to Dr Chota Motala Road Interchange on National Route N3 (PMB)

2013: CESA Aon Engineering Excellence Awards: Winner - Projects Greater than R250 million. **PROJECT:** Improvements to Dr Chota Motala Road Interchange on National Route N3 (PMB)

2013: CESA Aon Engineering Excellence Awards: Commendation - Projects Less than R50 million. **PROJECT:** Top Gear Internal Race Track – Moses Mabhida Stadium

2013: CESA Aon Engineering Excellence Awards: Winner – Young Engineer of the Year Award Mr Andreas Melusi Ndlovu (Technical Director: Transportation)

2013: CESA YPF Job Shadow Initiative 2013: 1st Runner Up

2011: Fulton Awards (Building Project Category) **PROJECT:** UNBUNTU Education Centre

2011: IOC/IAKS Bronze Award and IPC/IAKS Distinction Award 2011 Award from the International Association of Sports and Leisure Facilities **PROJECT:** Nelson Mandela Bay Stadium

2011: SAISE Steel Awards Architectural Category Winner **PROJECT:** Moses Mabhida Station **PROJECT:** Stock Road Station & Bus Terminus

2010: SAICE Special Award of Excellence as Defining Project of the Decade **PROJECT:** Moses Mabhida Stadium

2009: CESA Award for Engineering Excellence **PROJECT:** Wesbank Building in Fairlands, JHB

2009: GIGSA Award for the Usutu River Emergency Works

2004: SAACE Glenrand M.I.B (now CESA Aon) Young Engineer of the Year Award – Clint Koopman (current CEO)

2004: SAACE Glenrand M.I.B (now CESA Aon) Young Company of the Year

2004: IMPUMELELO nominated ILISO Consulting as South Africa's Top 300 Empowerment Companies

2004: Concrete Manufacturers Association Premier Award (Concrete Block Paving category) **PROJECT:** Stock Road Station & Bus Terminus

2004: Concrete Manufacturers Association National Award (Concrete Masonry Commercial category) **PROJECT:** Look Out Hill

2004: Concrete Manufacturers Association National Award (Concrete Block Paving Industrial Category)

2003: SAICE Branch Award for Technical Excellence in 2003 (Durban) **PROJECT:** uShaka Marine World

# ILISO CONSULTING SERVICE OFFERINGS

## ENVIRONMENTAL MANAGEMENT

- Environmental impact assessment and management
- Water resource management and planning
- Environmental management systems
- Environmental risk assessment
- Sustainability assessments
- Waste management

## INFRASTRUCTURE

- Water and wastewater treatment/process engineering
- Bulk water transfer schemes
- Human settlement and urban planning
- Township services
- Rural development

## MANAGEMENT SERVICES

- Project and programme management
- Government and institutional development & support
- Procurement management
- Construction management
- Sustainable Development
- Feasibility studies
- Infrastructure Asset Management

## MINING & INDUSTRIAL

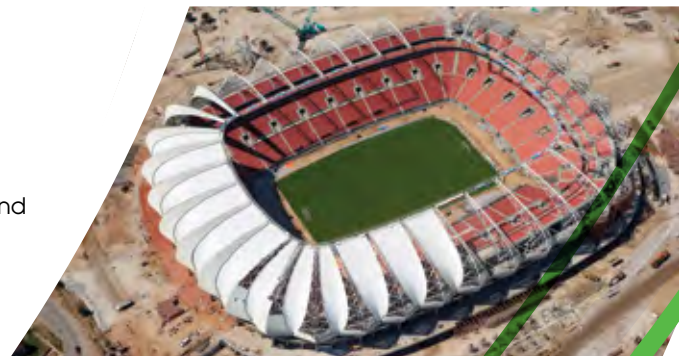
- EPC (M) project execution
- Process and metallurgical
- Mechanical and piping
- Electrical & instrumentation
- Mining & geology
- Factories & warehouses
- Foundations, platforms and support structures for major mechanical equipment

## STRUCTURES

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

## TRANSPORTATION

- Planning and design: Public Transport; BRT; Road Improvement and Highways
- Integrated transport & development planning
- Transport modeling
- Airport terminals and runways
- Rail stations, tracks and signaling
- Ports & harbours





# BOARD OF DIRECTORS



EXECUTIVE CHAIRMAN  
**Fuzile Felix Fongoqa**



DEPUTY CHAIRMAN  
**Loyiso Dotwana**



**Thembi Jacobs**  
Non Executive Director



**Moira Tihagale**  
Non Executive Director



CHIEF EXECUTIVE  
**Clint Koopman**



**Eldred R.W. Boonzaaier**



**Hans Hartung**



**Komenthren Govender**



**Seniel Pillay**



**Colin Raman**



**Prof Martin van Veelen**



**Anthony J White**



**Dr Anania Mbabazi**  
(Uganda)



**Mususeni Mumba**  
(Zambia)



# PROJECT PORTFOLIO

The projects listed below are categorised into discipline groups and are only a brief indication on the kind of work that ILISO Consulting is capable of. For a detailed list of our projects, please contact our Head Office in Centurion.

## ENVIRONMENTAL

### **City of Tshwane BRT Line 2A and 2B CBD to Menlyn via Hatfield**

The City of Tshwane is implementing a Bus Rapid Transit system to link key nodes in the city that will reduce the time and cost that people spend on transport. ILISO Consulting was appointed as the Environmental Specialist advisor, and to facilitate the public participation for Line 2 that runs from the Central Business District to Menlyn via Hatfield. The project included undertaking an ecological specialist study and environmental screening to identify any potential significant issues as well as any environmental and heritage authorisations required. An extensive public participation process consisting of more than eight public meetings and 30 focus group meetings was also facilitated for the City.

**Client: City of Tshwane**

### **Mooi-Mgeni Transfer Scheme Phase 2 (MMTS-2)**

ILISO Consulting provided environmental specialist services to the TCTA in the implementation of the MMTS-2, which included the construction of the Spring Grove Dam, three flow gauging weirs, a pump station, a water transfer system (pipeline) and housing development to accommodate relocated families, with associated access roads, services and road relocations. The Environmental services included a full-time on-site environmental monitor, applications for environmental authorisations and water use licenses, compiling environmental management programmes and drafting environmental specifications for tender documentation.

**Client: Trans Caledon Transfer Authority (TCTA)**

### **Groot Letaba River Water Resources Development Project**

ILISO conducted the Environmental Impact Assessment and Environmental Management plans for a proposed new large dam on the Groot Letaba River in the Limpopo Province, and associated bulk water supply infrastructure, including pipelines and reservoirs.

**Client: Department of Water Affairs**

### **Gautrain Project**

This project included environmental authorisation for the proposed variant alignments, compilation of the Environmental Management Plans, acquisition of the Water Use License and stakeholder consultation for various aspects.

**Client: Bombela Consortium**



# PROJECT PORTFOLIO

## INFRASTRUCTURE

### **Pipelines: Chobe/Zambesi Water Transfer Scheme**

Prefeasibility and Feasibility studies were done on the utilisation of the water resources of the Chobe/Zambezi river. Investigations included water demand computations, hydraulic design of associated infrastructure services (2100mm diameter pipeline, length 500km), pipe route selection, life cycle cost estimates and economic analysis.

**Client: Department of Water Affairs (Botswana)**

### **Water & Waste Water Treatment Works: Nsezi Water Treatment Works Upgrade**

The project entailed the rehabilitation of existing works, construction of a new Inlet Tower, 48 diameter Clarifier, 4 Filters, 500kl reservoir, pre-chlorination room and Interconnecting Pipework to increase capacity from 150Ml/day as well as the refurbishment and upgrade of the DAF plant.

**Client: Mhlathuze Water**

### **Township Services: Theewaterskloof**

ILISO Consulting provided the professional services for the development of approximately 3000 housing units in the Theewaterskloof Municipality. The infrastructure provision ranged from Emergency Housing Programmes (EHP) to low and medium cost housing developments. The professional services were provided for the entire project life cycle applicable to water, sanitation, roads and storm water.

**Client: Theewaterskloof Municipality**

### **Rural Development: Komga Commonage Settlement Project**

This project included the design and construction of gravel roads and storm-water drainage infrastructure and water reticulation to 1140 erven via standpipes to RDP standards. Six SMME contractors were awarded learnership contracts and the necessary advice and guidance was provided by the engineer.

**Client: Amathole District Municipality**

## MANAGEMENT SERVICES

### **Project Management: Botshabelo Medical Complex in Lesotho**

The project entailed investigations, preliminary design and detailed design and site supervision for a new health care facility at the Botshabelo Site in Maseru, Lesotho. The design included excavations, RC raft foundations, RC slabs, RC columns, and structural steel roof trusses. It also included all parking and open spaced areas plus all civil services such as water, storm water and sewer services.

**Client: MCC (Lesotho)**

### **Bucket Eradication Programme (BEP) in Excelsior**

This included the project management of the removal of the bucket system and replacement to waterborne sewerage for 2 200 sites. Scope of the work included investigation, preparation and submission of technical reports along with the MIG registrations; the planning; design; tender documents; tender adjudication; contract administration and supervision of the above applications.

**Client: Nelson Mandela Metropolitan Municipality**





# PROJECT PORTFOLIO

## MINING & INDUSTRIAL

### The PP2 Project at Sasol

The Polypropylene Plant at Sasol was part of the overall Turbo Project at Sasol. ILISO in Joint Venture with LBE worked on the project. The scope of ILISO's work was the structural design of one Industrial building and a loading facility. The Industrial building was a typical multi-bay warehouse facility and capable of accommodating heavy cranes. The warehouse consisted of a number of structural steel frames and it was clad with sheet metal. The crane structure and the loading facility were built using reinforced concrete.

**Client: Sasol**

### Kusile Power Station

ILISO Consulting was appointed by Bateman Africa (now Tenova Mining and Minerals South Africa) as review consultants and construction managers for the bulk earthworks and stockpiling yards.

The Civils/Structures Project Management for Kusile Power Station Material Handling Systems included the design reviews, specifications, enquiry document reviews and value engineering.

**Client: Bateman Africa (Pty) Ltd for Eskom**



## STRUCTURES

### Moses Mabhida Station, Durban

The design of the station had to ensure appropriate suitability for the site as well as integration with the precinct. The nature of the site posed challenges for accessibility, which were overcome. Structural design had to cater for the site constraints as well as the allowable occupation of the site. Logistical challenges included the procurement of different types of material used for the construction. Budget limitations also dictated the type and usage of materials as well as the final finishes.

**Client: PRASA**



### Fairlands Office Park: Wesbank Headquarters

This project involved the construction of landmark headquarters for First National Bank and Wesbank. It consisted of a concrete frame structure with long span pre-stressed flat slabs and structural steel feature facades. The project was fast-tracked and had a short completion period for its size. The building was unique in shape with numerous changes in angles, curves and volume changes and specific attention to Green building concepts.

**Client: Growthpoint (First Rand Bank)**



### Bloemfontein Airport Interchange

The associated works included the ramps, dual carriageway access road to the airport, reroute of the provincial road and all the stormwater management systems. The twin overpass road bridges of over 82m long and more than 32m wide consist of a reinforced concrete drum deck supported on V-shaped piers and perched abutments and founded on 750mm diameter auger drilled piles.

**Client: SANRAL**



# PROJECT PORTFOLIO

## TRANSPORTATION

### **Tshwane Bus Rapid Transit System: Line A from Pretoria CBD to Koponong (33 km)**

ILISO Consulting was appointed by the City of Tshwane PMU to undertake the planning, design and implementation of the BRT Trunk Line 1A and 1B, a length of approximately 18km from Akasia in the north to the Pretoria CBD in the south.

**Client: City of Tshwane**

### **Improvements to Dr Chota Motala Road Interchange on the N3**

ILISO Consulting was the lead consultant for the award winning Dr Chota Motala Interchange in Pietermaritzburg. The improvements were designed to relieve the dire congestion being experienced at this interchange. Improvements to the interchange included new and modified ramps and bridges; widening and rehabilitation of Dr Chota Motala Road (Asphalt Overlay) and the N3 Freeway (CRCP) as well as a traffic study and micro-simulation and modeling (AIMSUN).

**Client: SANRAL**

### **Rehabilitation of R27 from Calvinia**

The project involved the rehabilitation and widening of 74km of national road in the Karoo. The rehabilitation comprised the insitu recycling and stabilisation of the existing base-course followed by a Cape Seal surfacing.

**Client: SANRAL**

## TRAFFIC AND TRANSPORTATION

### **FIFA 2010 Transportation Operational Plan for Durban and Cape Town**

ILISO Consulting was part of the consortium appointed to develop the Transport Operational Plan for Durban and Cape Town for the FIFA World Cup™ 2010. The company was responsible for inter alia shuttle service development, NMT plans, terminals and other related infrastructure elements.

**Client: eThekweni Municipality and City of Cape Town**

### **Durban Inner City Public Transport Distribution System**

ILISO was the infrastructure engineer on the development of an Inner City Public Transport Distribution System for Durban, responsible for inter alia routing plans, stops, and signage.

**Client: eThekweni Municipality and City of Cape Town**





# PROJECT PORTFOLIO

## 2010 FIFA WORLD CUP™ STADIUMS

ILISO Consulting is proud to have worked on the following Stadiums for the 2010 FIFA World Cup™:

### **Green Point Stadium, Cape Town**

ILISO Consulting was responsible for the structural design of all of the horizontal slab elements as well as the construction monitoring.

**Client: City of Cape Town**



### **Nelson Mandela Bay Stadium, Port Elizabeth**

ILISO Consulting was the lead partner in a Joint Venture responsible for the bulk earthworks design, the pile design, the structural design of the concrete bowl, as well as the design of the light weight roof structure. ILISO Consulting was also responsible for contract administration and construction monitoring.

**Client: Nelson Mandela Bay Metropolitan**



### **Mangaung (Bloemfontein) Stadium**

ILISO Consulting was the lead partner in a Joint Venture that was responsible for the structural design, contract administration and construction monitoring.

**Client: Mangaung Local Municipality**



### **Moses Mabhida Stadium, Durban**

ILISO Consulting was the lead Civil Consulting company, that worked as part of a consortium to provide traffic impact assessments design, draughting and site monitoring.

**Client: eThekweni Municipality**





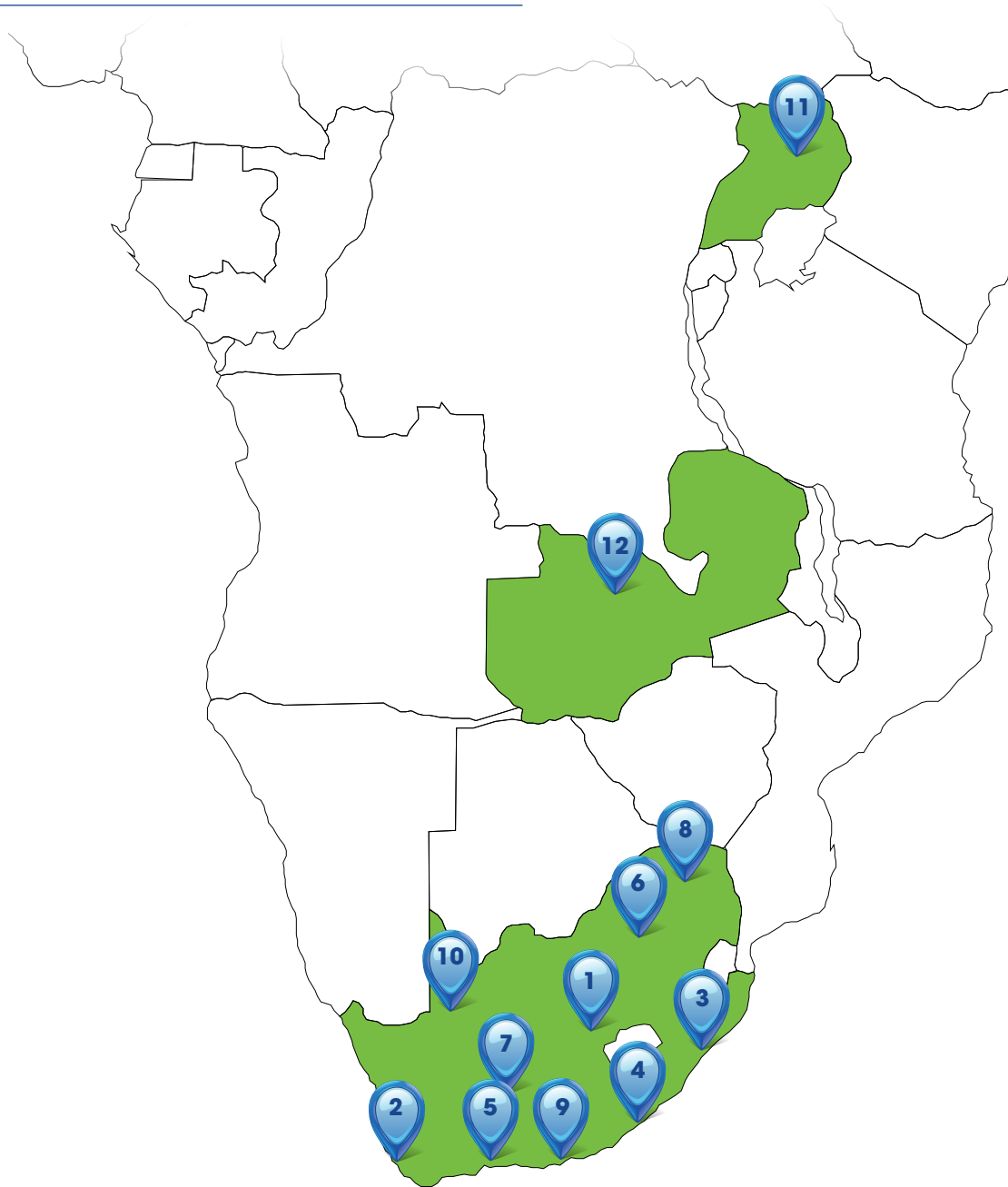
## ASSOCIATION MEMBERSHIPS

**ILISO Consulting is proud to be affiliated with the following organisations:**

- ACEZ: Association of Consulting Engineers of Zambia
- BEPEC: Built Environment Professions Export Council
- CESA: Consulting Engineers South Africa
- EIZ: Engineering Institution of Zambia
- EngRB: Engineering Registration Board (Zambia)
- FAEO: Federation of African Engineering Organisations
- FIDIC: The International Federation of Consulting Engineers (CESA is an affiliate member of FIDIC)
- GBCSA: Green Building Council of South Africa
- GNN-RMP: Global Network of Nano Technology and Its Application to Road Materials and Pavements (Zambia)
- IAIA: International Association for Impact Assessment
- IMESA: Institute of Municipal Engineering of Southern Africa
- NSE-TAD: Nigerian Society of Engineers – Taming African Deserts
- SABTACO: South African Black Technical Allied Careers Organisation
- SAICE: South African Institution of Civil Engineering
- SANCOLD: South African National Committee on Large Dams
- SAPOA: South African Property Owners Association
- UACE : Uganda Association of Consulting Engineers



## REGIONAL AND INTERNATIONAL OFFICES



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**2 Cape Town, Western Cape**

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**6 Centurion, Gauteng (Head Office)**

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