

# **ilifa**

**AFRICA ENGINEERS**



***Structural, Civil & Environmental Engineering Design Specialists***  
***Behind enduring civil engineering is a design that works. For life***

***Ilifa is a Zulu word which means "bequest, heritage, inheritance or legacy."***

*It is not the honour you take with you, but the heritage you leave behind that will make a difference.*

*At Ilifa we strive to create and leave something worthwhile and sustainable behind for the future generations. It is the guiding principle behind everything that we do.*



***We are specialists in designing enduring engineering solutions. Behind every great civil engineering solution is a design that works. For life.***

*Ilifa Africa Engineers is a South African-owned company that specialises in civil, structural and environmental engineering design. At Ilifa we are committed to a lasting legacy. We understand what is needed for the future. We design structures and systems that will work for tomorrow and for life. Our mission is to offer our clients sound engineering advice, quality service and financial accountability in an environment that offers equal opportunities to all.*

***Enduring solutions are about forward thinking.***

*For us at Ilifa it's more than knowledge and know-how. It's more than expertise and experience. It's about foresight, insight and vision. It's about a sense of pride in knowing that what we do now is for tomorrow.*

***Ilifa knows what the future looks like because we are part of designing it.***

*We design for what Africa's future needs to be. That's why you can trust us to design solutions that are durable, precise, workable and financially viable.*

***Professionalism • Integrity • Continuity • Solutions.***

*We develop forward-thinking solutions by applying innovative designs and using appropriate technologies. We harness science, geospatial intelligence and civil engineering expertise to address environmental and sustainability challenges and ensure infrastructure continuity for a sustainable future.*

*A hallmark of our professionalism is our track record of completing projects on time and within budget.*

# 01

## **More than 3 decades of excellence across Africa**

Ilifa has been serving clients across South Africa and the continent since 1981. We have grown a substantial client base in South Africa and established an international footprint across the African continent. We work with clients who share our objectives, vision and direction and we focus on building relationships and achieving cost effective business partnerships, for the mutual benefit of all parties.

## **The Company**

### **Partnering with Nigerian African Alliance Group**

Ilifa is proud to announce a professional and business partnership with Africa Alliance Group (AAG), a Nigerian infrastructural development company. AAG has a business footprint in six African countries and is presently focusing on West Africa and East African sub-regions. The new relationship between AAG and Ilifa South Africa is founded on both companies' shared vision to apply decades of expertise, experience and capabilities in infrastructural design and development - working together in the countries where they operate to build a strong African power house to conceptualise, design, build, and manage infrastructure projects, delivered by Africans for Africa. In support of this relationship, Ilifa now operates in Nigeria as Ilifa Heritage Africa Limited and in Rwanda as Ilifa Heritage Rwanda Limited.

### **Long standing clients**

Ilifa's clients are located across Africa and include mining houses, local and district municipalities, private developers, water boards, provincial and national governments.

### **B-BBEE & Best Practice Compliance**

Ilifa Africa Engineers is in full compliance with all legal and regulatory requirements applicable to its services as well as environmental and occupational health and safety legislation in all the jurisdictions in which it operates.

### **Industry Awards**

We have been honoured with the following awards:

- PMR Gold Award – Sedibeng Leaders and Achievers
- Sasol Synfuels – Outstanding Performance
- SA Institute of Steel Construction – Category Winner Community Development

### **Industry Memberships**

Ilifa is a member of the following associations:

- SA Institute of Civil Engineering
- South African Council for Engineering
- Consulting Engineers South Africa (CESA)
- Institute of Municipal Engineering of South Africa (IMESA)
- Concrete Manufacturers Association of South Africa
- Concrete Society of Southern Africa
- National Home Builders Registration Council

### **Corporate Social Investment**

In order to contribute in a manner that will have a lasting impact, we participate in the upliftment of communities in the areas where we operate.

## **Africa's future development starts with specialist infrastructure design and a commitment to Africa's future.**

*Ilifa specialises in the fields of structural and industrial engineering, residential and township developments, engineering solutions for roads and transportation, water and sanitation, water conservation and demand management. We understand geospatial imperatives for asset management, environmental management and waste management. We have the experience and the knowhow to handle contracts and projects across Africa.*



# 02

## **Fields of Expertise**

### **We work in a range of fields in the civil, structural and environmental sectors:**

- *Structural and Industrial Engineering*
- *Residential and Township Development*
- *Roads and Transportation*
- *Water and Sanitation*
- *Water Conservation and Demand Management*
- *Geospatial and Asset Maintenance*
- *Environmental and Waste Management*
- *Contract and Project Management*



**Structural and industrial engineering design.**  
*Structural engineering solutions designed for the future.*



Our engineering design expertise covers all structural elements within the building and civil engineering fields, from reinforced and pre-stressed concrete, to timber, masonry and structural steel, as well as the application of green technologies.

Our projects include building and civil engineering structures. Furthermore we offer structural asset management, structural condition assessment, silo and tanks assessment, steel modelling and fabrication drawings.

**Buildings:**

- Office accommodation
- Shopping centres
- Multi-storey buildings
- Hospitals
- Warehousing and cold-storage facilities
- Educational facilities
- Low cost housing

**Civil engineering structures:**

- Reservoirs
- Water towers
- Pump stations
- Water/sewage treatment facilities
- Industrial structures
- Petrochemical structures
- Bridges
- Concrete hard stands

**Residential & township development.**  
*Functional engineering design. For people.*

We stay abreast of the latest appropriate technologies, environmental requirements and economic constraints relevant to residential and township development. We are able to provide our clients with the best suitable solutions for:

- Arterials, internal streets and bus routes
- Stormwater drainage
- Water and sewer reticulation
- Rudimentary services such as stand taps, pit latrines and low water demand sanitary systems
- Low cost housing



**Contract and management services.**  
*Delivering lasting solutions.*

In order to ensure the successful implementation of our engineering designs we provide the following services:

- Contract administration
- Contract dispute resolution
- Quality control assurance
- Commissioning
- Closure reports
- Project Management
- Project coordination & implementation.



## **Roads and transportation.**

*We find the right solutions. Nothing less than what works – for now and for the future. That is our responsibility. That is what makes Ilifa the partner you want for road and transport engineering solutions designed to manifest tomorrow and leave a legacy of engineering for Africa.*

Ilifa's Roads Division specialises in the design of transport infrastructure, in particular for new gravel or paved roads, as well as the rehabilitation of existing roads and pavement management systems.

Our expertise includes conceptual and detail design – from route alignment, geometric design, material investigation, flood determination, capacity analysis and pavement design, through to tender documentation and implementation.

Our transport infrastructure expertise includes:

- National and provincial roads
- Interchanges and throughways
- Bridges
- Labour intensive road construction
- Rural gravel roads
- Block paved roads and concrete roads
- Township streets
- Parking areas, filling stations and taxi ranks
- Rehabilitation design
- Pavement management system (PMS)
- Transport, pedestrian and safety audits
- Roads and stormwater master plans
- Stormwater management and culvert design
- Flood hydrology



## **We understand resources.**

*We have the experience to provide resourceful solutions. It's not only about expertise. It's about knowledge of practical realities – making it possible now to find an answer that will still work in the future.*



## **Water and sanitation.**

*For people. For life.*

More than 3 decades of experience in this sector allows us to provide a comprehensive service with regard to water and sanitation infrastructure. This extends to master planning optimisation and time simulations of water provision systems, distribution networks, water services development plans, feasibility investigations and source development.

Our design expertise encompasses:

- Bulk and rural water supply and sanitation schemes
- Bulk water supply lines and pump stations
- Storage reservoirs
- Water and sewage treatment plants inclusive of process design
- Water services and sanitation master and development plans
- Outfall sewers and sewerage pump stations
- Agricultural irrigation
- Pollution control
- Upgrading and rehabilitation of existing installations and facilities.

## **Water conservation and demand management.**

*Making it work – for now and for the future.*

Ilifa's work in this sector is fully aligned with the policy of South Africa's Department of Water and Sanitation, as well as other public stakeholders on the continent. We are fully committed to developing sustainable solutions to meet the critical demands for water conservation and demand management. We take pride in our expertise and innovation in this arena. The imperatives for environmental sustainability, social equity and economic development in all regions, informs all that we do.

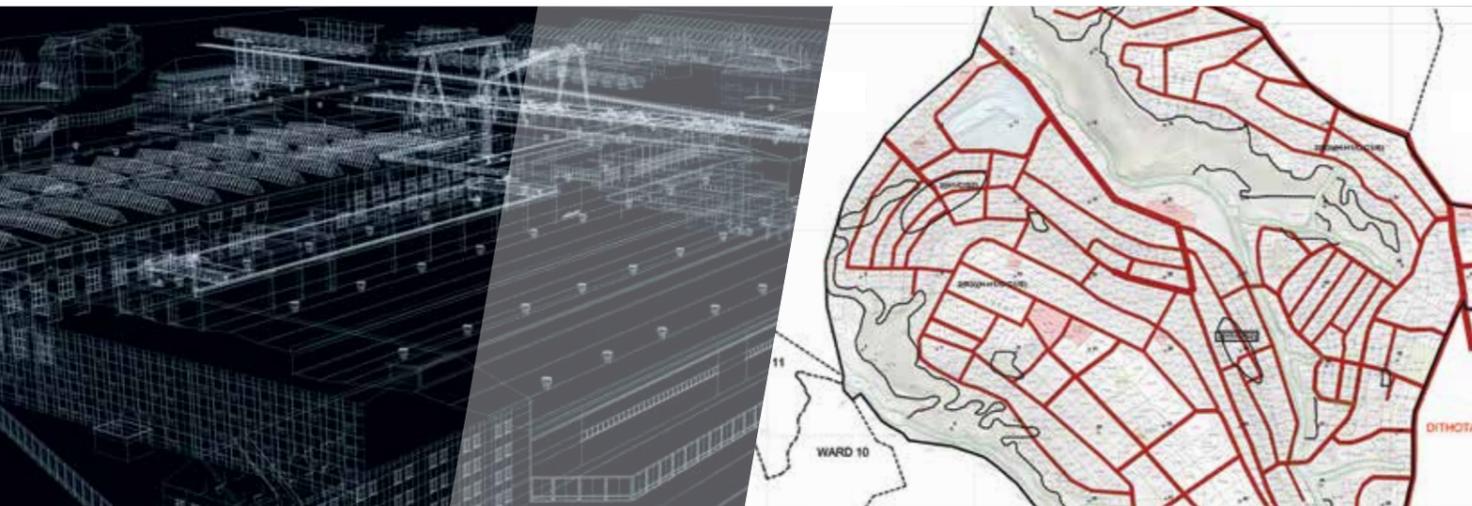
Our services include:

- High level water loss assessment including evaluation of Non-Revenue Water
- Flow and pressure logging using conventional and ultrasonic equipment
- Hydraulic modelling to determine impact of pressure management
- Establishing discrete measuring areas to improve water management
- Demand management with advanced pressure controllers
- Automated GIS enabled meter reading/IWA water balance
- Identifying appropriate interventions to reduce non-revenue water
- Public awareness campaigns to promote water savings
- Operation and maintenance.



***Ilifa are leaders in applying geospatial technology to asset maintenance management.***

*We develop and implement solutions designed for Africa's environmental and sustainability challenges.*



***Geospatial services and asset maintenance management.***

*Sustainability. For life.*

Our application of science, geospatial intelligence and civil engineering expertise rises to the diverse environmental and sustainability challenges of Africa.

The Ilifa Spatial Services division has developed proprietary Asset Maintenance Management Strategy (AMMStrat) software that is web-based and offers the full spectrum of maintenance management requirements. AMMStrat is applicable to a wide variety of disciplines such as structures, the construction of roads, road furniture, cemetery management, water, sewer and stormwater infrastructure. The system has been developed using sound spatial principles (GIS) and its robust database and linked visual representation are key components.

We provide specialist services for the compilation of Operation & Maintenance Plans related to all municipal services incorporating a call centre function. Furthermore we implement and manage municipal operations and maintenance projects.

We offer the following Geospatial services:

- Geographic Information System (GIS) functionality capabilities.
- Development of infrastructure layout and attribute compilations.
- Remote field data collection services.
- Web enabled spatial browser viewing facilities.
- GIS backbone support for all the aforementioned disciplines.

***Achieving the balance between desired development and environmental sustainability is a constant priority.***

*Ilifa is aware of the potential impact our projects may have on the environment. We therefore aim to implement construction practices supported by meaningful mitigation measures in order to comply with best environmental practice.*

***Environmental and waste management.***

*Preserving Africa's resources.*

Our Environmental Engineering division was established to design environmental and safety sensitive solutions that support and strengthen the environment to cope with the ever-increasing human demand for commodities and economic development.

In particular, our environmental engineering service targets:

- Municipalities and township developers requiring stormwater and sewage pollution solutions
- Industrial and mining sectors that need to comply with legal requirements regarding stormwater management, pollution control, industrial and domestic sewage treatment etc

Environmental engineering services include:

- Storm water management plans
- Pollution prediction and prevention plans
- Industrial effluent treatment
- Wastewater treatment
- Groundwater flow modelling
- Pollution assessments
- Sludge dams
- Environmental impact assessments and management plans
- Environmental auditing and compliance (ISO 14001)
- Environmental screening and scoping
- Basic Assessments
- Water use and waste licence applications
- Wetlands delineation, assessment and rehabilitation





## 03 Quality & Safety

03

**Invested in Africa's future. Committed to people in all that we do.**  
*We don't rest until we have practical, achievable solutions - safely geared to ensure continuous improvement of standards.*

At Ilifa we implement full compliance with occupational health and safety legislation in all the jurisdictions in which we operate.

Our quality management and efficiency is evident across our offices as well as on all our projects where quality systems and practices are implemented from inception through to project completion.

We are committed to a safe working environment and continually strive to improve the standards of safety and health within the work place through the implementation of industry best practices. Where required, we implement client-specific safety and health policies and procedures.

**Accreditation:**  
**ISO 9001:2015 (Quality Management System)**  
**OHSAS 18001:2007 (Safety Management System)**

## 04 Compliance and Risk Management

**Rigorous adherence to best practice.**  
*There are no short cuts in what we do. We are committed to professionalism, integrity, continuity and lasting solutions.*

**Since 1981, sustainability is the result of the company's rigorous adherence to best practice in compliance and risk management.**

### Legal Compliance

At Ilifa we implement a systematic process for legal compliance management whereby we:

- Identify statutory and regulatory requirements,
- Determine our compliance status and address non-compliance issues, and
- Keep a Legal Compliance Status Register which is reviewed annually.

**Ilifa's risk management is aimed at pre-empting new hazards that may impact on the business. These hazards could originate from within and/or external to the Company. The risk management process is executed through a defined process.**

### Risk Management

Ilifa's responsibility for risk management covers a range of areas. We implement policies for health and safety and environmental risks, as well as for legal, financial, administrative, public, professional and business continuity risk. Risk management at Ilifa is a continuous process of identifying, assessing, reporting and recording potential risks and the likelihood of their occurrence as well as planning ahead for preventative or mitigating action to control or eliminate the occurrence of hazards and regular reviews of the Risk Register.

### Environmental Compliance

Ilifa takes its environmental responsibility very seriously. We strive to be constantly aware of the potential impact our projects may have on the environment. Our construction practices are supported by strict adherence to best standards of environmental compliance.

### Systems and Policies

Our best practice management systems and policies are applied in all our activities and across all departments, including Engineering Management, Asset Management, Corporate Governance, Compliance and Risk Management.



## 05 Management Systems & Policies

Ilifa has a fully-fledged Business Management System, which serves as the entry level and principal document for the company and provides direction to all management directed initiatives and arrangements. It defines the scope of the management system and provides an overview of the business process within the organisation.

## 06 Differentiators & Value Add

*Ilifa's strategic objective is to identify potential clients based on similar objectives, vision and direction. A synergy in these areas makes it easier to establish a relationship and to achieve an efficient cost effective business partnership that is mutually beneficial to both parties.*



Synergy with our clients is a pivotal strategic objective at Ilifa. By working with clients who share similar objectives, we are able to build lasting relationships and cost effective business partnerships. We take pride in the value we offer to each client, which includes:

- Cost-up fees with flexible and reliable delivery,
- A high degree of professionalism and ethics,
- Country-wide footprint as well as operations in Africa,
- ISO 9001: 2015 accreditation,
- OHSAS 18001:2007 accreditation,
- Facilitating funding procurement for selected projects.



## **Structural, Civil & Environmental Engineering Design Specialists**

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