



**Your Construction Partner**  
[www.wisedesignafrica.com](http://www.wisedesignafrica.com)



**PRESENCE IN AFRICA**

**SOUTH AFRICA**  
[info@wisedesignafrica.com](mailto:info@wisedesignafrica.com)  
 +27 83 681 4554

**MADAGASCAR**  
[info@wisedesignafrica.com](mailto:info@wisedesignafrica.com)  
 +261 333 754412

**SIERRA LEONE**  
[info@wisedesignafrica.com](mailto:info@wisedesignafrica.com)  
 +232 768 03793

**NIGERIA**  
[info@wisedesignafrica.com](mailto:info@wisedesignafrica.com)  
 +234 803 621 4281

**PROCUREMENT**

**CONSTRUCTION**

**COMMISSIONING**

**MAINTENANCE**



## Electrical Construction

Services include:

- Construction Management
- Power regeneration systems
- Containerised MCC and Sub Stations up to 66KV
- Cable Racking and Cabling
- Electrical High and Low Voltage Services
- Electrical Distribution Board Manufacturing
- Building of Motor Control Centres (MCC's)
- Building of PLC Control Panels
- Generator panels AMF, Base Load and Synchronized
- Transformer supply, installation and commissioning
- Electrical Construction Maintenance
- Electrical Plant Maintenance
- VLF / 33KV Certification and Testing
- Installation and testing of electrical motors
- Area and Security Lighting
- Lightning and Earthing Installation
- Flammable and Explosion areas
- Electrical Certification and Installation



## MV & HV Construction

Products:

- Power Transformers
- Dry Type Transformers
- Distribution Transformers
- GIS Switchgear
- Substation Equipment
- Mini Substations
- Turnkey Electrical Equipment
- Power Accessories
- Containered Equipment
- Low and Medium Voltage Switchgear



*220kV Single Phase Traction*

The two 15MVA, 33kV/6, 33kV/6, 6kV transformers we imported through Wise Design Africa are commissioned and functioning correctly. We must say that the very short delivery period and very competitive pricing assisted our project greatly. It provided latitude that otherwise would not have been available.

Our two engineers that visited the works were very impressed with the production line, build quality and test procedures and performance. The most telling remark was "You can see every design element has been thought through and perfected."





## Instrumentation Construction

Wise Design offers specialised services integrating SCADA & PLC Systems. We supply, install and calibrate various types of field instrumentation. Manufacturing of cable racking and instrumentation mechanical (Supports). The Proven Predictive Diagnostics is a first in the World which enables you to detect & make informative decisions on the spot. Instrumentation scheduled shutdown maintenance, process instrumentation, PLC installations, software and SCADA integration is all done in-house to offer a cost effective turnkey solution to electrical and instrumentation installations and projects.

- Instrumentation Technicians/Engineers & Valve Specialists
- Mitsubishi PLC's, Allen Bradley PLC's, Siemens S7 PLC's
- PLC Basic I/O & Networking (Profibus), ASi Network
- Emerson Control Techniques variable speed drives
- Flow Meters: Rosemount, Siemens
- Level Measurements: Rosemount, Vega, Siemens
- Densitometers: Process Automation, Khrono, Ramsey
- Pressure Transmitters: Rosemount, Wika
- Pressure Gauges: Ashcroft
- Temperature Transmitters: Wika, Rosemount
- Conductivity Analysers: Rosemount
- I/P Converters: Foxboro, Fisher, Hartmann & Braun
- Control Valve: Fisher, Masoneilon
- Flow Switch, Temperature Switch
- Instrumentation Cable, Fibre Optic Cable
- PLC Control panels, Junction Boxes and marshalling cabinets
- On site instrumentation calibration facility with certification
- Mobile Calibration Centre being developed for Africa



**wiseforce**™



## Construction Labour

Wise Design offers specialised services for the construction environment. We install all relevant equipment in the construction field namely LV Electrical, MV Electrical, VSD, MCC, Distribution Boards, Area Lighting, Electrical Cabling, Cable Racking, Earthing, Lightning Protection, Calibration, Commissioning, QC/QA, Instrumentation, Instrument Piping and Valves.

## Wiseforce Labour Management System

Wise Design introduced WISEFORCE which is a custom-designed construction industry labour management system. Each new candidate's work history is recorded for each project including details such as qualifications and previous work history.

Approved quality control systems (QMS) to ensure accuracy and quality of installation. We offer a maintenance support group after a project. We also offer training to the client and foreign nationals to be able to run the facility on their own (AMS).





## Solar Construction

Power Generation has been part of Wise Design Africa for many years. We have been involved in alternative power generation in various projects. Our main focus has been to design electrical solutions for our existing clients. Our speciality is to design the Electrical and Mechanical systems from conception to completion. Wise Design makes use of certified partners to supply scientific data in the area of Power Generation for wind and solar based solutions.

Wise Design is able to assist with power generation into existing environments for clients such as mines. We are able to use technology such as conveyer belt systems to design power generation for those environments.

## Power Generation - Construction

Wise Design is able to construct Mechanical and Electrical systems according to each client's needs. Due to our strong footprint in Africa we are make use of various resources to help our clients meet their construction needs. In some instances depending on client needs we are able to construct off site and ship the completed product to the installation site.

## Power Generation - Maintenance

With so many Alternative Energy Sites going up all over Africa and the rest of the world Wise Design has aligned themselves to partner with clients to maintain their sites. We are able to assist with complete shutdown solutions and re-supplying of components.

