

@ D.F.R Newsletter

PROFESSIONAL VALUE-DRIVEN ENGINEERING SOLUTIONS

Volume 3
June 2013



ENERGY

SAVE
cost & the
environment

our future

ELECTRICAL, ELECTRONIC, MECHANICAL AND STATUTORY ENGINEERS
PROJECT MANAGERS | ENERGY CONSULTANTS

@ DFR Company Background

DFR Engineers is a dynamic and experienced electrical-, electronic- and mechanical engineering consultancy with the capacity to provide comprehensive and value-driven design and project management services.

We provide specialist solutions to clients in the property, banking, commercial and industrial markets.

Our dedicated and professional team of specialists have built a reputation of providing viable, durable and cost-effective solutions to meet challenging project requirements throughout Africa.



At DFR Engineers, impeccable ethics as well as professionalism is an operating standard. Our operating standard is derived from a business ethos founded on trust and personalised service, and our belief that total professionalism is required in our interactions with all our stakeholders.

We value knowledge and knowledge generation, and have an active and established internal skills development and training programme. This ensures that the knowledge and experience of our senior engineers will not be lost, but will be handed down to the next generation to develop further. We are committed to the principles of Broad Based Black Economic Empowerment.

@ DFR Group Structure

Our corporate re-structuring of the DFR group of companies, has merged DFR Cape, Pretoria, Eastern Cape and 4D into a single management platform. The DFR Group now consists of 6 Branches:

- Gauteng: Head Office
- Western Cape
- Eastern Cape
- Botswana
- Namibia
- Smuts-DDFR Engineers (Pty) Ltd

@ DFR Group Directors

CEO: DF Roodt, **Group Directors:** L Schlebush, J Dlamini, M Kola

@ DFR Employee News

Congratulations to these employees with their Diplomas and Degree!

- Tian received his BTech Degree in Project Management
- Gosiamé has achieved a National Diploma in Electrical Engineering
- Malani received a National Diploma in Events Management

A warm welcome to all the new employees: Surene, Mariane, Angela, Rita, Pia, Ian and Magda.

Congratulations to Ian & Melodika with their engagement and Msizi with the birth of a baby boy.

Our condolences also goes out to Michael with the death of his dad, and Gosiamé with the death of his daughter.

Project Guide



Electrical



Statutory



Electronic



Mechanic

@ Index



DFR Company Background	P1
DFR Group Structure	P1
DFR Directors	P1
DFR Employee News	P1
Letter from CEO	P2
Achievements 2012 / 2013	P2
Previous Events	P3
DFR Branches	P4
Projects	P4 - P9
Client Feedback	P9
DFR Venue	P10

@ Letter from CEO



2013 Kicked off at a unique pace and with our new structure and face lift, understandably with its own challenges. We thank our Creator for guiding us all safely back after the festive season and appreciate the challenges set up for this year in making it the most exciting year for the DFR Group.

We are excited to explore new opportunities in the mining, energy transmission & distribution as well as energy-optimisation industries. Other sectors of interest are Government infrastructure plans and commercial, industrial and private developments.

We embark on a journey to better our existing relations by not only remaining focussed on exceptional client service but also staying abreast of latest and unique engineering solutions. We are excited to explore new territories and add new clients to our family tree.

I wish you the best for this exciting time ahead, and thank you for the opportunity to share some DFR news with you.

- Deon Roodt (CEO)



@ Achievements 2012/2013

We may look back at some highlights of 2012 and the past few months of 2013 and again appreciate:

- Our strategic network partners including BIGEN AFRICA, BDO, CIH MESURE, CCBC, BTKM Quantity surveyors, LDM Quantity surveyors, Hall Stacey Architects
- Our current and former clients,
- Our entire team including Western Cape, Eastern Cape, Namibia, Gaborone, Pretoria and Smuts – DFR
- Achieving our LEVEL 3 BEE Accreditation
- Our Unique International networking session during IFSEC
- Our Bronze award for open category best enterprise at CCBC
- Our new sponsorships and social development initiatives for 2013
- Our initiative towards securing ISO accreditation
- Our Certified Energy Management Accreditation
- Our involvement in the energy optimisation and Green Energy environment.
- Various skills development achievements within our team including various diplomas and degrees
- The Pretoria offices are now a smoke-free office
- Launch of our new website



Previous Events



@ IFSEC 2012 Annual Event

DFR Engineers hosted various African and SADEC Security Banking clients for the IFSEC 2012 Exhibition. This event is an annual event on the DFR calendar since 2009 and attending the exhibition is only a part of this experience.

This event also creates the opportunity and exposure to state of the art technologies and trends of the security industry. A two day technology indaba was hosted by DFR Engineers at their conference facilities that was devoted to Energy efficient products and Electronic security products and services. Specialists were invited to present their products and answer questions from the delegates. These experts on energy efficiency explained demand site management, solar technologies and building management systems to the guests and how they can implement the various philosophies in their businesses.

Day two kicked off with an early morning game drive on the beautiful surroundings, followed by a day filled with knowledge. A demonstration on the TOGAF 8 (architectural and consultant) standard fascinated the delegates and induced a lively dialogue! The importance of a consulting engineer, the specific role that they play in optimising a project and saving the client burden associated with building and upgrading was highlighted. After all the high tech information, a Life Coach shared some interesting information on personality types and how to optimise every individual to their full potential, using the guidelines of different personalities. This remarkable week was ended with a ceremonial dinner, attended by the delegates, presenters and DFR Engineers personnel.

@ FUNDURO Team building at Vissershoeek

Early on a Saturday morning in May 2013 the funduro started off with many off-road bikers participating in this event, amongst which some of the DFR employees, their kids and relatives.

The first lap was a lot of fun with all the rocks and challenges and for the ones that did not participate, there were exhibitors, food stalls and a beer garden. The team gathered at the DFR gazebo and both adults and kids had lots of fun.



@ CCBC Annual Golf Day

DFR Attended the Capital City Business Chamber Annual Prestige Golf day event in May 2013 at the Pretoria Country Club.

Our team participated and we also sponsored a tee. It was an absolute spectacular event filled with lots of entertainment and prizes.



The Gauteng region is extremely proud of the results derived from our reasoned restructuring process. Our new Financial model, Marketing and Corporate Branding model, as well as our Quality Management System and Technical Structures are proofing to be a huge success. Our latest affiliations at various corporate entities and new prospects in the energy environment poses vast opportunities in our current environment.

Namibia

We have moved our offices, and is now sharing office space with our new partners - Profile Investments. Our firmest believe is that our new relationship and joint efforts with our new partners will take us to higher levels.

Smuts-DFR Engineers

Smuts-DFR has shown exceptional good growth in the past year. Our plan is to extend our National footprint to cover Western Cape, Eastern Cape, KZN and Mpumalanga as well.

Western Cape

Our Cape Town Office will be relocating very soon into our own branded office in Cape Town. Keep an eye on our website for our new address and opening. We would also like to welcome Christine who will be the QMS Manager for the group – she will assist us in casting the blocks to comply with CESA & ISO.

Eastern Cape

The Eastern Cape has divided into two new exiting business units. Our two Unit Managers will be Pieter Meyer heading the Eastern Cape unit from the Port Elizabeth Office and Louw Brand that will be heading Central unit consisting of the Free State, Northern Cape & Lesotho.



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BIOWASTE

LIGHTING

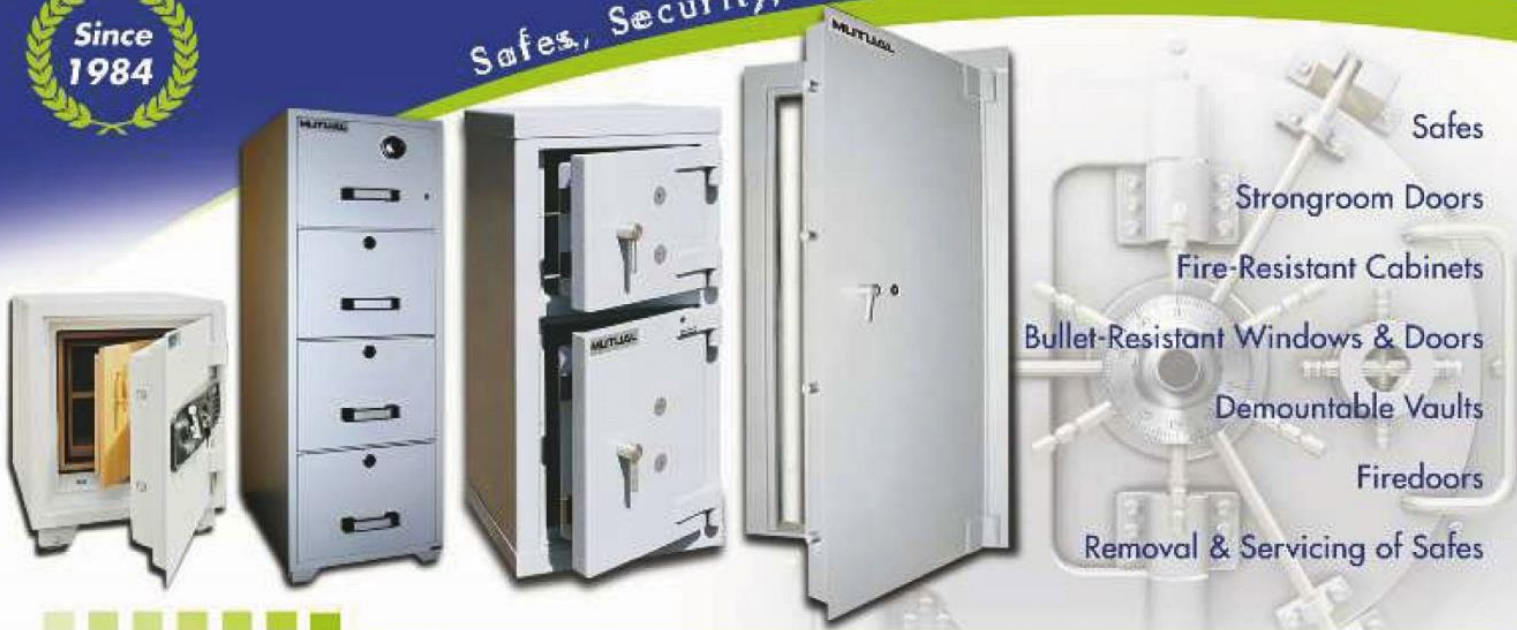
HOME & BUSINESS
AUTOMATION

SOLAR

FIBRE
OPTICS

CLIMATE
CONTROL

Safes, Security, Protection - That's our Business



Safes
 Strongroom Doors
 Fire-Resistant Cabinets
 Bullet-Resistant Windows & Doors
 Demountable Vaults
 Firedoors
 Removal & Servicing of Safes



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Projects

@ AZURI



The works comprises of the construction of the Azuri Centara Grand Hotel and Residential Estate Project including all ancillary services. The scope of this project covers specifically the following: The Project is a Green Field development located on the North East Coast of Mauritius generally consisting of a 100 Key Five Star Boutique Hotel with associated facilities, 130 residential units consisting of a mix of Town Houses and Apartments being developed for sale to foreigners under the Integrated Resort Scheme (IRS) of Mauritius, an additional 106 residential units consisting of a mix of Town Houses and Apartments being developed for sale to the local market and all associated technical buildings and infrastructure.

DFR Engineers is appointed as the Security Consulting engineers which covers the following:

- Risk Analysis and Recommendation for the Overall Azuri Development and the Grand Centara Hotel
- Security Local Area Network
- CCTV System
- Security Control rooms
- Security Control Measures
- Ensuring Statutory requirements



Project Value: R4.8M | Duration: December 2013

@ BELHAR



Electrical reticulation and street lighting to a mixed use development consisting of low-income housing, retail and commercial precincts.

Project Value R96M
Duration: 2013-2016



@ BON DRC



Electronic security systems to Reserve Bank of Namibia Data Recovery Centre. Comprising CCTV, Access Control, Intrusion Detection and physical surveillance.

Project Value: R8.1M | Duration: Jan 2012 - current



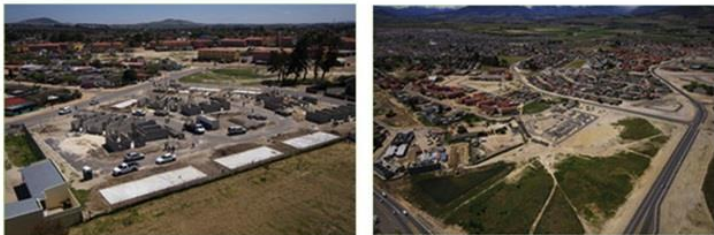
@ DE MEULE



DFR Engineers Cape is to prepare a report for stages 1 and 2 – Inception, and Concept and Viability. The reports cover the Lighting and Small Power Systems, Electronic Systems incorporating Smoke Detection and Intrusion Detection and the External Reticulation systems incorporating Electrical Supply reticulation and Site Lighting. The reports include a brief summary of the works envisaged.

Project Value: R1.6M | Duration: 2012 - 2013

@ SCOTTSDENE



DFR Engineers are currently working in association with the Bigen Africa Cape Town office on the Electrical reticulation to a new low cost housing development for the City of Cape Town, which includes the following scope of works:

- Initial survey of existing infrastructure including liaison with Eskom.
- Liaison with the City and with the Department of Energy to facilitate subsidy funding for the project.
- Design and documentation of all bulk and link services to ensure electrical supply to the various development areas.
- Design and documentation of the MV, LV and Street Lighting systems for the entire project consisting of approximately 3100 living units.
- Specification measuring and tendering the reticulation system consisting of MV switches, Minisubstations, MV cabling, LV cabling, Distribution Kiosks and other ancillary systems.
- Specification measuring and tendering the street lighting system consisting of poles, luminaires, LV cabling, Distribution Kiosks and other ancillary systems.
- Site monitoring and project management during construction phase
- Testing and handover of reticulation systems to Eskom and street lighting systems to the City of Cape Town

Project Value: R40.2M | Duration: Completing early 2014

@ SWELLEN DAM - BUFFELJAGSRIVIER



DFR Engineers Cape has been appointed by the Department of Public Works to be responsible for the design and site supervision of the repair (10 months) and maintenance (24 months) phase of the Correctional Centre.

This advanced project includes the following aspects:

All kiosks to comply with the regulations, all power and light circuits to comply with the regulations, existing aircon units to be serviced, fire hose reels to be installed, inner security fence to be removed and a new taut wire fence, complete with controls and sensors, to be installed, design a heat pump system to replace all hot water cylinders (28) in the prison, HIV/Aids awareness, refurbish existing kitchen equipment, installation of lightning protection and maintenance schedule to commence on site handover.

Project Value: R7.4M | Duration: August 2010 - 2012

@ PHASE 1 THE WOODMILL



DFR Engineers were appointed by Steinhoff Properties for the Electrical, Electronic and Mechanical Consulting Engineering Services on The Woodmill project with various roles and responsibility per design phase.

Phase 1 comprise the newly built offices in an existing warehouse situated outside Stellenbosch.

Project Value: R1.5M | Duration: 2011 - 2012

@ MADIBENG MUNICIPALITY



We have designed a city surveillance system for MADIBENG MUNICIPALITY that analyses real-time crime data. The system will be used to monitor public areas and activities. The system shall signal alarm alerting authorities on potential crime in

the Brits City and surrounding areas (i.e Lethlabile, Oukasie and Hartbeespoort dam area).

PTZ pan, tilt and zoom cameras were chosen for this project and are capable of being directional (positioned) and zoomed in in order to focus on finer details of the object in view through either optical (preferred) or digital zoom functionalities of the camera through the lens. The cameras shall be able focus on a detail without losing sight of the general view of the area of interest.

Project Value: R11M | Duration: Completion in 2016

@ DEPT. OF JUSTICE



DEPARTMENT OF PUBLIC WORKS – FOR CONSULTING IN ELECTRICAL AND ELECTRONICS BY ADVISING TO DEPT OF JUSTICE & CONSTITUTIONAL DEVELOPMENT

Public works have declared their challenges in service delivery to their 51 clients which includes 32 government ministries. The slow delivery is hampering the department's reputation. For this reason, SMUTS-DFR engineers was nominated by the department of Public work to assist in consultation on how to improve service delivery on one of their clients which is department of Justice and Constitutional development.

We shall be advising the department of Justice and Constitutional development on Electrical and Electronic Engineering aspects.

Project Value: R1M | Duration: June 2014

@ COLDHARVEST



Electrical reticulation to a new refrigeration facility.

**Project Value: R1.3M
Duration: March to September 2013**

@ DEP. OF PUBLIC WORKS



DEPARTMENT OF PUBLIC WORKS – ENGINEERING FACILITIES MANAGEMENT FOR THE PRETORIA NATIONAL LIBRARY OF SOUTH AFRICA (ELECTRICAL & ELECTRONICS WORKS).

Our Engineers were requested by the Department of public works to conduct a survey, and compile an Engineer's reports on the status of existing electrical installations at the Pretoria National Library building. Part of the scope of works involves:

- Developing a state of the art maintenance management model and implementation for a period of 5 years.
- Project management for carrying out the needed repairs and maintenance to the building.
- Developing and implementing an Occupation Health and Safety policy and procedures
- Ensuring operational, cost efficiency and effectiveness in the maintenance function

Project Value: R17M | Duration: Complete June 2013



@ MTN



Electrical designs for a warehouse in Centurion

Project Value: R12M | Duration: March 2012

@ ESKOM



8 x Generation Eskom power stations technical quality assurance on drawings (Back to Basic project)

Project Value: R3M | Duration: June 2012

@ OLLOMBO



Industrial and Residential development at Ollombo International Airport, Republic of Congo. Including Electrical Reticulation, Electrical, Mechanical and Fire Protection building services and Electronic systems.

Project Value: R17M | Duration: Sep 2011 – June 2014



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we shape
the future*



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@ BELHARCBD



DFR Engineers are currently working in association with the Bigen Africa Cape Town office on the Electrical reticulation to a new low cost housing, commercial, retail and industrial development for the City of Cape Town, which includes the following scope of works:

- Initial survey of existing infrastructure including liaison with Eskom.
- Liaison with the City and with the Department of Energy to facilitate subsidy funding for the project.
- Design and documentation of all bulk and link services to ensure electrical supply to the various development areas.
- Design and documentation of the MV, LV and Street Lighting systems for the entire project consisting of approximately 3800 living units, and 32 000 sqm GLA of commercial and retail space.
- Specification measuring and tendering the reticulation system consisting of MV switches, Minis substations, MV cabling, LV cabling, Distribution Kiosks and other ancillary systems.
- Specification measuring and tendering the street lighting system consisting of poles, luminaires, LV cabling, Distribution Kiosks and other ancillary systems.
- Site monitoring and project management during construction phase
- Testing and handover of reticulation systems to Eskom.
- Testing and handover of street lighting systems to the City of Cape Town

Project Value: R96M | Duration: 2012 - 2016





DFR was appointed in 2009 to design the total integrated technical security solution for the Bank of Namibia. This was an existing building and the existing electronic security systems needed replacement and upgrading to latest technological standards.

The team of DFR Engineers was required to conduct comprehensive status analysis and submit various alternatives for the upgrading and extension of the existing systems.

This challenging project included the following aspects:

- Redesign of existing control room
- High end digital recording
- CCTV System with cameras
- Access control system and associated system interlocks in delivery and dispatch areas – interfacing with existing electro/mechanical doors and gates
- High security intercom system
- Digital fire detection and evacuation system

Project Value: R8.1M | Duration: 2012- 2013



The Disaster Recovery Site is a multi-discipline New Building. DFR Engineers was selected as the Technical Security Consultant Engineers and our Scope included:

- Access Control Systems including Card Issuing System
- Integrated IP CCTV Camera System
- New Intruder Detection Systems
- Fire Detection System
- Public Address and Evacuation Systems
- Electric Fence with Monitoring
- Door Monitoring System
- X-Ray Scanners, Walk Through Metal Detectors, Man Trap Personnel Locks
- Hydraulic Vehicle Barriers, Vehicle Access and Egress Booms
- Dedicated Network, Servers and Management PCs
- Control PCs with ancillaries and printers for remote control rooms and management stations
- Independent Security Network and Firewalling to the Bank’s ICT Network
- New Gatehouse, Control Room and Equipment Room facilities
- New dedicated static UPS for Control Room
- Electrical verification, extension where required and certification to confirm UPS power to all field devices
- Electrical installation to confirm Generator supply to new UPS
- Integration of all systems
- Complete Programme, testing and commissioning
- Certification of the works
- Training of Client’s maintenance and operational staff
- 12 Month defects liability
- As-built drawings and maintenance manuals

Client Feedback

“ Recently, we had the pleasure of working with DFR Engineers as our consultants for our Head Office project in Gaborone.

The integrated security system was successfully completed. The multi-million Pula project was completed on time and within budget.

I would therefore, personally recommend DFR Engineers unreservedly for any major technical security installations”

CHIEF SECURITY OFFICER
BANK OF BOTSWANA

“This serves to confirm that DFR Engineers are part of the design specialists working with the Central Bank of Lesotho in the development of two major projects, and eight story Head Offices extension, four story parked and a four story disaster recovery and cash centre.

The Bank is satisfied with the value addition that DFR Engineers has provided to date; they have exhibited an immeasurable degree of professionalism and counsel to us. On the basis of their performance, we would unreservedly recommend them for similar projects in the central bank environment of similiar projects.”

CHIEF SECURITY OFFICER
CENTRAL BANK OF LESOTHO



"We hereby wish to acknowledge that DFR Engineers have been acting as Security Consultants and Engineers since 2003 for the University of South Africa. The Company and their team of Engineers provided their competency through exceptional Professional service and firm project management skills.

UNISA is glad to be associated with DFR Engineers and will recommend the Company for and Engineering services relating to their fields of expertise."

DEPUTY VICE CHANCELOR AND VICE PRINCIPAL OF OPERATIONS
UNISA

"DFR Engineers is a well-established, committed engineering company. They are still one of a few companies which prides themselves in their work, and shows real understanding of the client's requirements in terms of the end goal and the financial limitationf of the project. Quality control on the project was done in a structured well managed program in sometimes difficult circumstances both in terms of logistics and timelines.

We were in general more than satisfied with work implemented by DFR Engineers and can recommend then for projects of this nature."

ARCHITECT
MESURE (MILLEMUIM CHALLENGE WASHINGTON DC / MINISTRY OF HEALTH GOVERNEMENT OF LESOTHO)

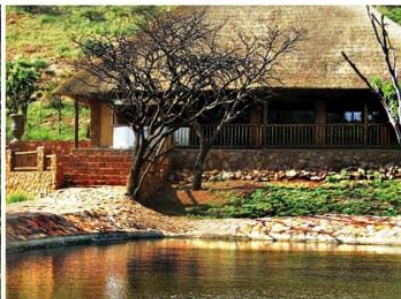
@ DFR Venue De Wildt

-  **Accommodation in Chalets**
-  **Full Catering**
-  **Game Drives**
-  **Bar Tenders & Waiters on request**
-  **Conference Venue Up To 60 People**
-  **Close to Airports**
-  **Game Viewing & Hiking Trials**
-  **WiFi in Chalets & Conference Venue**

The DFR Group now has it's own training, conference and accomodation venue with full catering, bar tender and game viewing services.

De Wildt is a small game farm just outside Pretoria (20 minutes from Pretoria CBD and close to Wonderboom and Lanseria Airports) This venue can seat up to 60 people and is ideal for conferences, year-end celebrations, private functions, training workshops etc. We also have 8 rooms for accomodation with wireless internet and full DSTV, swimming pool, hiking and mountain biking trials. The farm extends over 120 hectares in the scenic subtropical bushveld on the Northern slopes of the Magalies Mountain Range. We also offer full catering and bartender services and promise you a well hosted African experience. The game includes some Giraffe, Water Buck, Kudu, Impala, Nyala, Wildebeest, Zebra and various indigenous birds.

We have made this venue available to our clients to all your function needs. For enquiries please email bookings@dfreng.co.za or phone us at 012 546 7574





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