



/ EGMF Project Portfolio

Entreprise Generale Malta Forrest Kenya



/ Our Proud Accomplishments

We have completed a range of projects for our clients over the years.

Electromechanical

Our knowledge and expertise enable us to provide you with a package of services including; engineering design, procurement, related civil works, construction management, structural erection, equipment installation testing and commissioning.

We cover complex fire detection and suppression systems, compressed air systems, plumbing & drainage systems, water systems, air conditioning systems, electrical installations, Heating, Ventilation and Air Conditioning (HVAC).

Telecommunications

We undertake both greenfield and rooftop telecommunication towers installations. In relation to fiber optic installation, we Survey, Design, Laying, Blowing, Splicing, Testing and Commissioning of both Metro and Backbone networks.

We provide mechanised fibre optic laying – this entails the use of ploughing machines that lay the cable and warning tape directly underground without opening any trench. We are the only company in the region that provides mechanized cable laying.

Sustainable Energy

We have participated in various sustainable energy projects including installation of Kenya's first grid connected wind farm in Ngong Hills (30 km west of Nairobi). We have also erected several wind masts in various locations from Marsabit to Turkana.



Electromechanical
&
Building Construction

/ Aircraft Hangar for Kenya Airways

We constructed a new hangar for wide bodied aircraft for Kenya Airways.

Client Kenya Airways
Date Apr. 2004 - Oct. 2005

Summary

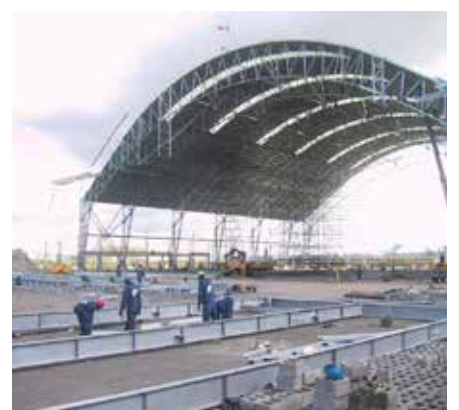
Kenya Airways contracted EGMF to construct for them a hangar for wide bodied aircraft in 2004. This was a challenging project that involved a large workforce and complex engineering challenges.

The main aircraft hangar complex was composed of a pre-fabricated steel structure that measured 80m in length & width, and 28m in height. In addition to the main hangar complex, we also constructed a two storey office complex/ workshop nearby and accompanying paved roads to and from the hangar complex.

The hangar was successfully completed in 2005 and still in use to this day.

Scope of Work

- Design of a new 80m x 80m x 28m High structural steel Hangar
- Fabrication of steel work and delivery to site of all materials
- Erection of the steel Skeleton
- Masonry and Sheet Cladding of the Hangar and external doors
- Paved Access roads
- Installation of Plumbing & Drainage Systems
- Air Conditioning & Mechanical Ventilation System
- Foundation work to receive a prefabricated steel hangar overall size 80m x 80m x 28m high.
- Construction of 2 storey offices/workshops on either sides of hangar (80m x 9m each)
- Paved Access Roads
- Construction of a Storm Water and Foul drainage Systems
- Electrical and Mechanical Services Reticulation
- Construction of a concrete water tank (1700m³)
- Construction of an Electrical and Mechanical Services Building



/ Sub-Station at Lubumbashi

Generale Malta Forrest designed and constructed an electrical sub-station in Lubumbashi, Congo.

Client ABB
Date May 2011 - Mar. 2012

Summary

Generale Malta Forrest was commissioned by ABB to design and construct an electrical sub-station in Lubumbashi, Democratic Republic of Congo.

This year long project presented unique technical challenges involving the installation of 90 ton, 150MVA 220kv to 120kv transformers, nevertheless EGMF Congo successfully completed the sub-station and it is currently in use.

Scope of Work

- 30 big foundations of 20m³ each
- 100 small foundations of 2m³ each
- 3000m earthing to the top of the ground level
- Digging of 350m long Cable trenches
- 350m sub-soil drains
- 14,000m² yard stone
- 50 big foundations of 14m² each
- Construction of 160m main road
- Installation of 700m storm drain
- 400m 2.4m high external fence
- Construction of control room, office, kitchen, workshop & toilet
- Installation of air conditioning systems



/ Pyrethrum Board Factory

The Pyrethrum Board of Kenya commissioned us to construct to solvent factory.

Client Pyrethrum Board of Kenya
Date Oct. 2005 - May 2007

Summary

The Pyrethrum Board of Kenya were in need of a pyrethrum solvent extraction factory and commissioned EGMF Kenya to design and construct a new one for them in Nakuru.

This 2 year complex project involved removal of existing defunct equipment to make room for new machinery, construction of the new facility and installation of state-of-the-art solvent extraction equipment.

The solvent factory was completed successfully in 2007 and is currently in use.

Scope of Work

- Dismantling and Removing of Existing Equipment.
- Study and quality control of completed project
- Civil works for the design and supply of new factory building
- Installation and erection of the process equipment supplied by De Smet and assistance in the start-up of the plant
- Supply and erection of the fire fighting equipment in the solvent plant
- Sea transport to Mombasa of the process equipment supplied by De Smet
- Land transport CIP Nakuru Kenya of the process equipment supplied by De Smet



/ JKIA Escalators

Jomo Kenyatta International Airport required rehabilitation of their escalators.

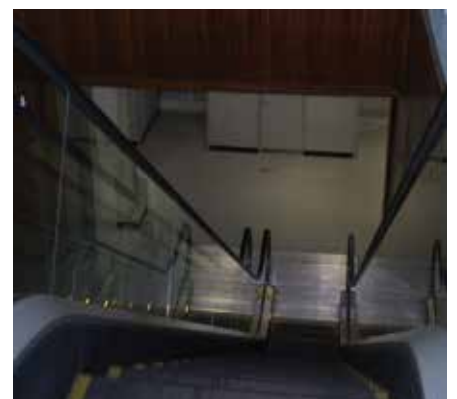
Client L. M. Chapeaux International
Date Jan. 2001 - Sep. 2001

Scope of Work

- Demolition of existing escalators and construction of a staircase as a replacement
- Design for the civil works of new staircase and escalators
- Design for the electrical works for the new escalators
- Civil works for the new escalators
- Electrical works for the new escalators

Summary

Jomo Kenyatta International Airport requested EGMF to rehabilitate their old dilapidated escalators. The project involved removal of existing equipment and installation of new modern escalators that would serve the airport for many years into the future.



/ Waterproofing the Belgian Embassy

The Belgian embassy in Nairobi required some waterproofing work done on their premises.

Client Government of Belgium
Date Jun. 2001 - Nov. 2001

Summary

The offices of the Belgian embassy in Muthaiga, Nairobi required waterproofing work done on their roof as the existing roof was leaking water into the main facility.

This is 6 month long project involved removal of the existing waterproofing material, installation of new rain water outlets and complete waterproofing of the entire roof.

Scope of Work

- Carry out study on the existing situation of waterproofing
- Remove existing waterproofing materials and cart away
- Check existing rain water outlets repair and replace as necessary
- Carrying out the waterproofing of the whole surface



/ Commercial & Housing Projects

We have completed various domestic & commercial housing projects all over the region.

Summary

We have participated in numerous domestic & commercial housing projects from Nairobi, Kenya to Kinshasa, Democratic Republic of Congo.

Scope of Works Involved

- Design of new housing units & commercial offices
- Design of accompanying structures such as swimming pools
- Accompanying Civil works
- Laying of structural foundations
- Electrical Installation
- Air Conditioning Installation



Olonana Tented Camp

Client Abercrombie & Kent
Date Dec. 1997 - Aug. 1999

We constructed a luxury tented camp on the banks of the Mara in the Maasai Mara game reserve.

- Installation of solar system for electric power supply
- 12 luxury tents complete with luxury bathrooms and lounges
- Construction of a Swimming pool
- Construction of a Kitchen and restaurant
- Construction of Managers' houses and a staff camp



Kiambere Water Project

Client Ercole Marelli Impianti Tecnologici
Date May. 1997 - Nov. 1997

We were commissioned to complete the stalled Kiambere water project.

- Erection of six elevated water tanks (150 m³)
- Erection welding and painting of water tank (800 m³)
- Welding and laying of 11 Km of DN300 water pipeline
- Construction of 60 service manholes
- Installation of sluice valves, washouts and air valves along 60 Km pipeline
- Pressure testing of 18 Km of DN300 pipeline at between PN16 & PN75
- Erosion protection and reinstatement



Ngano Farm Water Project

Client Department of Defence
Date Oct. 1995 - Jan. 1997

The contract comprised of carrying out the final design, provide materials, deliver, erect and commission Ngano Farm Water Project to supply water to Ngano Farm Factory.

- Construction of the Intake comprising of sump and submersible pumps capable of delivering 562m³/hr.
- Construction of water treatment works comprising of a aeration basin, treatment units, storage tanks, a pump house and staff houses.
- Construction of 2 No. Booster stations comprising of pump houses and staff houses.
- Laying of a 30 km of water pipeline
- Steel Tanks and Booster pumps.



Telecommunications

/ GSM Base Stations

We constructed GSM base stations for Safaricom.

Client Reime Network Implementation Services
Date Jun. 2000 - Apr. 2001

Summary

EGMF Kenya was commissioned to install base stations for Safaricom in Kenya. The GSM base stations were located in different regions of Kenya and presented numerous challenges during their installations.

The works involved erection of the main tower and shelter, installation of the GSM antennae and associated electrical equipment, as well as installation of a backup generator in case of unexpected power loss.

All the requested base stations were successfully erected and are currently in use.

Scope of Work

- Carrying out site survey
- Transportation of all materials to site
- Construction of tower and shelter foundation
- Erection of tower and shelter
- Electrical installation
- Installation of GSM antennae, coax cables, wave surge protectors, microwave cables, connectors and dishes
- Microwave Radio commissioning
- Security wall with electric fence
- Access road



/ Mombasa to Kisumu Fibre Optic Cable

We lay fibre optic cable from Mombasa to Kisumu for Telkom Kenya.

Client Telkom Kenya
Date Oct. 2005 - Sep. 2007

Summary

Telkom Kenya required a direct fibre optic link from Nairobi to Kisumu and commissioned EGMF Kenya to undertake this massive project.

Performance of the Civil Works, Installation - Laying - Blowing, Supply of the PVC pipe and other Equipment and consumables used in the installation of Fiber optic cables for the link.

Scope of Work

- Section 1: Nairobi – Athi River
- Section 2: Athi River – Sultan Hamud
- Section 3: Sultan Hamud B – Mtito Andei
- Section 4: Mtito Andei – Voi
- Section 5: Voi – Mazeras
- Section 6: Mazeras - Mombasa
- Section 7: Nairobi Carrier – Nairobi ITE
- Section 8: KPL Spurs
- Section 9: Nairobi - Longonot
- Section 10: Longonot - Naivasha
- Section 11: Naivasha – Gilgil
- Section 12: Gilgil – Nakuru
- Section 13: Nakuru – Eldoret
- Section 14: Eldoret - Webuye
- Section 15: Webuye – Bungoma
- Section 16: Bungoma – Malaba
- Section 17: Nakuru - Kericho
- Section 18: Kericho – Kisumu



Kenya Education Network (KENET)

Client Various Universities in Kenya
Date 2011 - 2012

We connected over 10 universities to the same network all over Kenya.

- Section 1 - Egerton University, Njoro TO Nakuru (23.54KM)
- Section 2 - Egerton University, Town Campus TO Nakuru (2.13KM)
- Section 3 - Egerton University, Main Campus to Nakuru (20.31KM)
- Section 4 - Maseno University, Town Campus To Kisumu (0.73KM)
- Section 5 - Mombasa Polytechnic University College to Mombasa (5.90KM)
- Section 6 - JKUAT, Juja to Thika (16.16KM)
- Section 7 - Meru University College of Science & Technology to Kenya Methodist University, Meru (12.17KM)
- Section 8 - Daystar University, Athi river to Machakos (36.41KM)
- Section 10 - Moi University, Main Campus to Moi University, School of Law (31.27KM)
- Section 11 - Narok University College to Narok (3.78KM)
- Section 12 - Laikipia University to Nyahururu (12.82KM)
- Section 13 - Pwani University to Kilifi (2.60KM)
- Section 14 - Machakos Technical Training Institute to Machakos (1.87KM)
- Section 15 - Kimathi University to Nyeri (6.24KM)
- Section 16 - Kisii University to Kisii (2.42KM)



Nairobi Metro Fibre Optic Network

Client Broadband Access Limited
Date Jan. 2009 - Jul. 2010

Broadband Access requested EGMF to install their fibre optic network around Nairobi.

- Study and Design
- Supply and installations of all materials for Civil Works, FO Cable and accessories, Testing and Maintenance equipment
- Installation - Laying of HDPE pipes, Blowing of the FO Cable into the HDPE Pipes,
- Cable splicing, Termination, Testing and commissioning
- Internal Installations of cabinets and conduits in more than 250 buildings to enable termination of the cable into the buildings
- Electrical installations in all the over 250 buildings to power up the fiber cabinets.
- Preparation of as-built drawings for the entire network



Sustainable Energy

/ Ngong Hills Wind Farm

Kenya's first grid connected wind farm in Ngong Hills was designed and installed by EGMF.

Client Ministry of Energy
Date Jan. 2009 - Sep. 2009

Summary

Kenya's first grid connected wind farm was erected and installed by EGMF Kenya. The project involved the erection of 5 wind masts and construction of a sub-station building.

The wind masts are currently in use and supply electrical power to the national grid.

Scope of Work

- Carrying out site survey
- Transportation of all materials to site
- Construction of six tube tower foundations
- Erection of tower and shelter
- Earthing System Installation
- Construction of the substation building



/ 65m High Wind Mast at Ngong Hills

We installed a wind mast in Ngong Hills to measure wind velocity at Corner Baridi.

Client Prunus Energy Systems
Date Nov. 2009 - Dec. 2009

Scope of Work

- Geo-technical Investigation
- Foundation works for the turbines
- Laying of fibre optic cable
- Anchorage drilling and grouting.
- Access road and installation platforms construction
- MV Trench Excavation
- Fencing
- Guard House and Toilet construction

Summary

We were commissioned by Prunus Energy Systems to install a 65m high wind mast in Corner Baridi to measure wind velocity in that area.

The installation required laying of fibre optic cable, drilling and grouting, as well as construction of a guard house.



Marsabit Wind Farm

Client Ministry of Energy
Date May. 2010 - Sep. 2010

We designed and installed a wind farm in Marsabit, Kenya.

- Geo-technical Investigation
- Foundation works for the turbines
- Laying of fibre optic cable
- Anchorage drilling and grouting.
- Access road and installation platforms construction
- MV Trench Excavation
- Fencing
- Guard House and Toilet construction

80m High Wind Mast in Marsabit

Client Gitson Energy Ltd
Date Dec. 2009 - Jan. 2010

Installation of an 80m high Wind Mast at Marsabit (Bubisa).

- Supply and install 80m tall Guyed Lattice Tower
- Foundation works for the mast
- Installation of Data Loggers
- Installation Anemometers
- Installation Wind Direction Vanes
- Installation Temperature sensor
- Installation of the equipment accessories



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