

# Cairo Festival City 66/22 KV Substation

## Client

Al-Futtaim Real Estate Development (SAE)

## Scope of Work

Concept design  
Detailed design  
Construction supervision  
Commissioning and handover

## Location

New Cairo, Egypt

## Types of activities

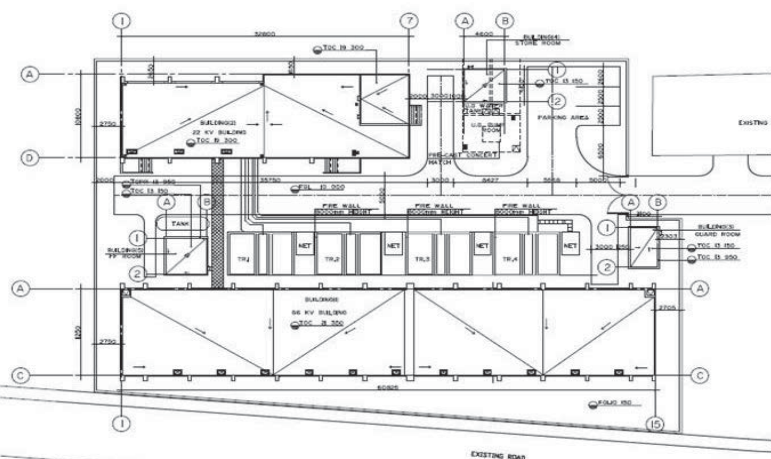
Architectural  
Civil works  
Communications and security systems  
Electrical  
HVAC  
Piping  
Mechanical  
Structural

The project comprised the design, construction supervision, commissioning and handover of a 66/22 kv electrical substation and its connection cables with the external main grid to feed the Cairo Festival City (CFC) project.

The 66/22 kv substation is part of the site wide infrastructure and associated projects for Cairo Festival City located at the 5<sup>th</sup> Conglomerate in New Cairo. The said substation is interconnected with New Cairo Station, 12 km apart throughout 630 mm<sup>2</sup> cables (route no.1) and with Zahraa Madinet Nasr-Police Academy Station, 3.5 km apart throughout 400 mm<sup>2</sup> cables (route no.2).

The CFC Substation is built on an area of 3,042 m<sup>2</sup>, and consists of five buildings as follows:

- 66 kv building (66 kv switchgears and bus bars): consists of one floor with a footprint area of about 650 m<sup>2</sup>.
- 22 kv building (22 kv switchgear, control hall, AC/DC room, telecommunication room, battery room and auxiliary transformers): consists of basement and two floors with a footprint area of about 385 m<sup>2</sup>.
- Guard room: consists of one floor with a footprint area of about 20 m<sup>2</sup>.
- Fire-fighting room: consists of one floor with a footprint area of about 25 m<sup>2</sup>.
- Store room: consists of one floor with a footprint area of about 28 m<sup>2</sup>.
- Underground water tank and pump room: with a footprint area of about 85 m<sup>2</sup>.



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