

Farafra Diesel Power Station

Client

Egyptian Maintenance Company (EMC)

Scope of Work

Preliminary design

Detailed design

Location

Farafra, Egypt

Types of Activities

Architectural

Civil

Communications & security systems

Electrical

Landscape

Mechanical

Structural

Roads

The 4 × 4 MW diesel power station is located in Farafra Oasis near Farafra-Wahaat Highway. On a plot area of 62,500 m², the project comprises the following buildings:

- Powerhouse building (footprint of 760 m²): ground floor (switchgear & main control center) and mezzanine (control room, battery room, offices, and toilets)
- Transformers building (footprint of 168 m²): four transformers surrounded by a chain-link enclosure with four separate chain-link gates; the transformers are separated by reinforced concrete firewalls, and the building is covered with corrugated steel sheets
- Auxiliary transformers building (footprint of 60 m²): two auxiliary transformers surrounded by a chain-link enclosure with two separate gates; the building is covered with corrugated steel sheets
- Workshop & storage building (footprint of 174 m²): enclosed workshop & store, as well as staff changing rooms with lockers and toilets
- Staff housing building (footprint of 250 m²): ground floor and three typical floors; each floor consists of two apartments, each with a living room, two bedrooms, a kitchen, and a bathroom
- Guardhouse (footprint of 25 m²): office, bedroom, and toilet
- Pump room, fire pump room, water treatment room, water tank, and valve room located adjacent to the tank farm
- Open storage (1,000 m²) shaded with corrugated steel sheets
- Perimeter fence (1,000 meters long) with four guard towers at the corners



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