

EMETO

ELECTRO MECHANICAL ENGINEERING TECHNICAL OFFICE

MOHAMED ALY & PARTNERS



27 Makram Ebeid St., 6th District, Nasr City, Cairo, Egypt.

Tel. & Fax:+20 2 22700361

Mob.:+2 01227314646

Email: info@emetoeg.com

www.emetoeg.com

ELECTROMECHANICAL DESIGN & ENGINEERING SPECIALTIES

Our firm main design & engineering specialties shall cover the following:

A. INFRASTRUCTURE:

I. ELECTRICAL:

- 1. Low Voltage Networks.*
- 2. Medium Voltage Networks.*
- 3. Power Distribution Networks.*
- 4. Telecommunication & Security Networks.*
- 5. Street & Green Area Lighting.*
- 6. Fields & Sports Lighting.*
- 7. Air Side Networks for Airports.*

II. MECHANICAL:

- 1. Plumbing Networks.*
- 2. Drainage Networks.*
- 3. Fire Fighting Networks.*
- 4. Chilled Water Networks.*
- 5. Fuel Hydrant Networks.*
- 6. Irrigation Networks.*

B. INSIDE BUILDINGS:

I. ELECTRICAL:

- 1. Power Distribution.*
- 2. Emergency Power & UPS Systems.*
- 3. General, Decorative & Special Lighting.*
- 4. Lighting Fixtures Description.*
- 5. Light Current Systems (i.e. Telephone, MATV and Fire Alarm & Sound).*
- 6. Security Systems (i.e. CCTV & Access Control).*
- 7. Computer Networks.*
- 8. Special Systems for Hospitals, Hotels, Banks & Airports.*
- 9. Lightning Protection & Earthing Systems.*

II. MECHANICAL:

- 1. Cold Water & Hot Water Systems.*
- 2. HVAC.*
- 3. Fire Fighting.*
- 4. Chilled Water Piping.*
- 5. Drainage.*
- 6. Toilet Details.*

C. SUBSTATIONS & PLANTS:

I. ELECTRICAL:

1. *Power Stations.*
2. *Diesel Generator Stations.*

II. MECHANICAL:

1. *Water Treatment Plants.*
2. *Pumping Stations.*
3. *Drainage Plants.*
4. *Waste Water Treatment Plants.*
5. *Boiler Plants.*
6. *Chiller Plants.*
7. *Compressed Air Plants.*
8. *Fuel Stations.*

OFFICE ORGANIZATION

Our group is around 25 employees forming both the electrical & mechanical teams as follows:

I. ELECTRICAL TEAM:

1. Eng. Mohamed Aly.
2. 2 Senior Electrical Engineer.
3. 1 Senior Communications Engineer.
4. 5 Junior Electrical Engineers.
5. 3 Draftsmen.

II. MECHANICAL:

1. Eng. Ahmed Mohamed El-Balal.
2. 1 Senior HVAC Engineer.
3. 1 Senior Mechanical Engineer.
4. 4 Junior Mechanical Engineers.
5. 2 Draftsmen.

TECHNICAL SERVICES OFFERED BY EMETO

Our firm is capable of offering the following technical services to our clients:

A. DESIGN DRAWINGS:

- 1. Field Investigation and Data Collection.*
- 2. Preparing Preliminary Design Report.*
- 3. Preparing Conceptual Design Drawings.*
- 4. Value Engineering & Cost Estimate Studies.*
- 5. Technical Co-ordination for Electromechanical works.*
- 6. Producing Detailed Design & Construction drawings.*
- 7. Producing Technical Calculation Sheets.*

B. TENDER DOCUMENTS:

- 1. Preparing Technical Specifications For All Systems.*
- 2. Preparing Bill Of Quantities for All Systems.*
- 3. Preparing Cost Estimates in accordance with B.O.Q.*
- 4. Preparing Method of Measurements for Electromechanical Works.*

C. BIDS EVALUATION:

- 1. Bids Evaluation for All Bidders.*
- 2. Technical Reports & Recommendations.*
- 3. Contract Award to Successful Bidder.*

D. DESIGN FOLLOW UP:

- 1. Contractor Shop Drawings Approval.*
- 2. Materials & Samples Approval.*
- 3. Site Supervision during Execution.*
- 4. Quantity Surveying For Electromechanical Works.*
- 5. Inspection & Testing of different systems.*

E. WORK SHOP DRAWINGS

- 1. Review Design Drawings.*
- 2. Preparing Workshop Drawings from Design Drawings.*
- 3. Bill of Quantities Pricing.*
- 4. Material Procurement.*

EXPERIENCE RECORD

The following are some projects designed by our office:

HOTELS & TOURISTIC RESORTS



AWASSA HOTEL DEVELOPMENT



AFRICAN UNION GRAND HOTEL



CITADEL AZUR – HURGHADA - EGÝPT



CASCADES SOMA BAY HOTEL



HILTON GARDENS INN



SAVVOY SHARM EL-SHEIKH



KEMPENESKI SOMA BAY

HOTELS, RESORTS & TOURISTIC VILLAGES

Project : **CITADEL AZUR (formerly HURGHADA HILLS)**

Location : *Hurghada, Red Sea, Egypt (Executed 2013)*

Owner : *Falcon Hotels*

Client : *Falcon Hotels*

Description : *The project is 5 stars touristic village consisting of the following separated buildings:*

- 1. Main hotel building with 50 guestrooms, multipurpose room, administration with all related back of house facilities.*
- 2. Marina with its related 50 rooms, restaurants, shops & yachts area.*
- 3. Guest blocks extending in north & west including 500 rooms.*
- 4. Disco area together with shops area & gymnasium.*
- 5. Utility building & workshop.*
- 6. 3 Swimming pools with different sizes & beach outlets.*
- 7. Power substation building.*

The total connected power is around 7 MVA for phase-1, comprising a generation plant with step up transformers to 22kV, then a medium voltage network feeding step down transformers located at load centers.

Scope of work : *Design Drawings & Technical Support for all Electrical Works.*
(*Electrical works Budget is around 50 Million EGP*)

Project : **SAVOY SHARM (formerly LE MERIDIEN SHARM)**

Location : *Sharm EL-Sheikh, Red Sea, Egypt (Executed 1999)*

Owner : *Tirana Tourism Investment*

Client : *Techno Consult (Electrical Contractor)*

Description : *The project is a 5 star hotel 350 guestroom, consisting of the following separated buildings:*

- 1. Main hotel building with ballroom, administration, shops, restaurants and all related back of house services.*
- 2. 6 extended guestrooms links & beach outlets.*
- 3. Service and substation building.*

The total connected power is around 6 MVA.

Scope of work : *Work Shop Drawings for all Electrical Works Inside Main Building Only.*
(*Electrical works Budget is around 5 Million EGP*)

Project : **IBEROTEL HURGHADA (formerly HORIZON TOURISTIC VILLAGE)**

Location : *Hurghada, Red Sea, Egypt.*

Owner : *Sheikh /Hashem EL-Mehdar Group (Saudi Arabia)*

Client : *Architectural Touch (Consulting Office)*

Description : *The project is a touristic village consisting of the following separated buildings:*

- 1. Main hotel building with 85 guestrooms, multipurpose room, administration with all related back of house facilities.*
- 2. Shopping Mole with a health club, restaurants & 70 shops.*
- 3. 6 Floors building for royal suites (130 suites).*
- 4. 6 Floors building for time-share units (360 units).*
- 5. Sports area with all its facilities.*
- 6. Swimming pools area & beach outlets.*
- 7. Service and substation building.*

The total connected power is around 7 MVA distributed on 2 transformers & 5 generating sets.

Scope of work : *Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 30 Million EGP)*

Project : **AL-BARAK HOTEL**

Location : *Dammam, Kingdom Saudi Arabia (Under Construction)*

Owner : *AL-Barak Company (Saudi Arabia)*

Client : *Centre for Engineering Studies & Design (Consulting Office)*

Description : *The project is a large hotel located at dammam city in Kingdom Saudi Arabia. The hotel consists of main building & annex. Main building comprises 19 floors for 126 guest rooms, 36 suites & 6 pent houses together with all their related facilities as reception, lounges, restaurants, kitchens, laundry, 2 parking floors, shopping areas & all required electromechanical equipment areas. The annex comprises mainly the service areas as well as swimming pool, saunas & gym areas. The annex is connected to the main building via a steel bridge.*

The total connected power is around 12 MVA.

Scope of work : *Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 25 Million SR)*

Project : **AWASSA HOTEL DEVELOPMENT**
Location : *Awassa, Ethiopia (Under Construction)*
Owner : *SHK. Muhammad Hussien AL Amoudi*
Client : *Innovators Consulting Engineers (INV)*
Description : *The project is a luxurious touristic complex located by the Lake of Awassa at Ethiopia. The complex total land area is around 35000 m² with built up area around 45000 m² including hotel building, 20 VIP villas, club house, clinic, tennis courts, swimming pool, pool bars, utilities plant & huge parking area surrounding the site.*
The hotel building consists of 7 floors with total built up area of 30000 m² with a capacity of 131 guest rooms, 8 suites, 3 apartments, administration areas, large ball room with all related facilities, dining restaurants, shops, main kitchen & health club center. The total connected power is around 4 MVA.
Scope of work : *Design Drawings & Tender Documents for all Electromechanical Works.*
(*Electromechanical works Budget is around 25 Million \$*)

Project : **HILTON GARDENS INN**
Location : *Doha, Qatar (Under Construction)*
Owner : *Tri Con International*
Client : *Atlantic Contracting Company*
Description : *The project is a luxurious Hilton hotel located at Doha, Qatar. The hotel total land area is around 3000 m² with built up area around 25000 m². The hotel building consists of 9 floors with a capacity of 198 guest rooms, 25 suites, administration areas, large ball room with all related facilities, dining restaurants, shops, health club center as well as swimming pool area & its related facilities. Basement floor dedicated for parking area & service areas including electromechanical substations, main kitchen & laundry. The total connected power is around 6 MVA.*
Scope of work : *Work Shop Drawings for all Electrical & Plumbing Works.*

Project : **AFRICAN UNION GRAND HOTEL**
Location : *Addis Ababa, Ethiopia (Under Construction)*
Owner : *SHK. Muhammad Hussien AL Amoudi*
Client : *Innovators Consulting Engineers (INV)*
Description : *The project is the addition of a large parking area in addition to health club, spa & swimming pools for the new constructed African Union Grand Hotel. The total connected power is around 1 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electromechanical Works.*
(*Electromechanical works Budget is around 2.5 Million \$*)

Project : **BEAU SITE EXTENSION**
Location : *Matrouh, Egypt (Under Construction)*
Owner : *Beau Site for Tourism & Hotels*
Client : *Beau Site for Tourism & Hotels*
Description : *The project is the extension of the famous Matrouh Beau Site hotel located at North Coast of Egypt. The project consists of a basement floor dedicated for parking, laundry, kitchen & electromechanical plants in addition to a ground floor dedicated for restaurants & covered swimming pool. First floor accommodates the main restaurant and Gym as well as guest rooms & suites. Three floors for guest rooms & suites so that total capacity of hotel is around 28 guest rooms & 14 suites. The total connected power is around 1.25 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 1.5 Million EGP)*

Project : **PORTO SOKHNA RESORT**
Location : *Ain Sokhna, Egypt (Executed 2010)*
Owner : *Amer Group*
Client : *Orwa Trading*
Description : *The project is the iconic Porto Sokhna resort located at Ain Sokhna, Egypt. The project consists of 3 residential buildings each 24 floors with around 1800 flats built up as a simulation of the Egyptian famous 3 pyramids. The 3 buildings are surrounded by a fine landscaped zone with large swimming pools, parking, 2 floors shopping mall, and promenade as well as all MEP utilities areas serving the project. The total connected power is around 20 MVA.*
Scope of work : *Design of Bus Duct system (ZUCCHINI) for the 3 buildings including vertical runs. (Electrical works Budget is around 10 Million EGP)*

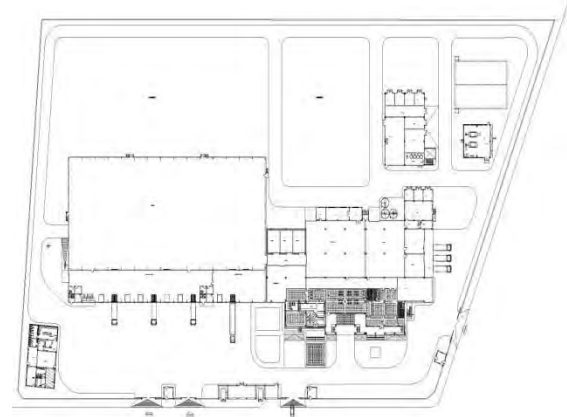
FACTORIES & INDUSTRIAL PLANTS



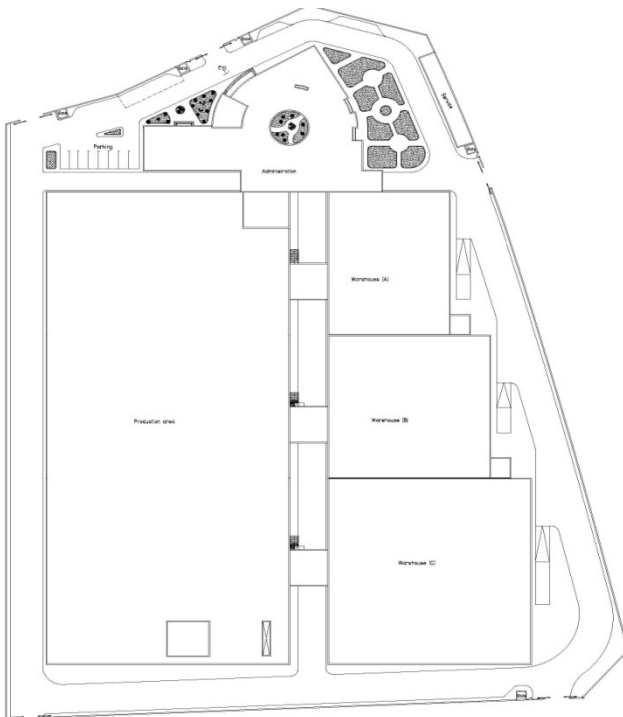
AL-KAMIL POWER PLANT - OMAN



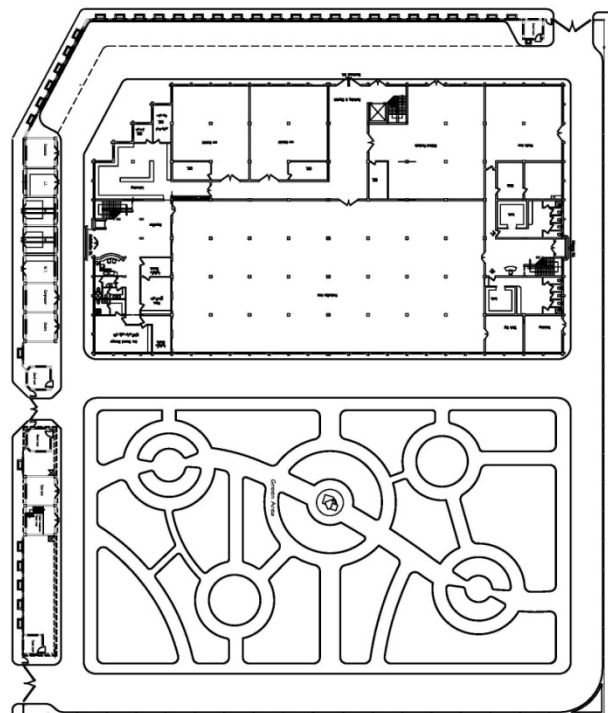
HALLIBURTON WORK SHOP



JUHAYNA DISTRIBUTION CENTER



MEUBLE EL-CHARQ FACTORY



EL-TAWHEED FACTORY

FACTORIES & INDUSTRIAL PLANTS

Project	: <u>MOBIFACTORY</u>
Location	: 6 th October City, Egypt (Executed 2009)
Owner	: <i>Mobi Serve</i>
Client	: <i>Centre for Engineering Studies & Design (Consulting Office)</i>
Description	: <i>The project is a new factory established by the company MOBISERVE, which is a subsidiary of MOBINIL (the Egyptian first mobile network provider); where this factory shall be responsible for the production of all the towers equipment that is used for strengthen the network.</i> <i>The factory consists of the production building, shelter plant, lockers, 4 floors administration building, substation & security gates.</i> <i>The total connected power is around 4 MVA.</i>
Scope of work	: <i>Design Drawings & Tender Documents for all Electrical Works.</i> <i>(Electrical works Budget is around 5 Million EGP)</i>
<hr/>	
Project	: <u>CAIRO CHEMICAL INDUSTRIES FACTORY</u>
Location	: 6 th October City, Egypt (Executed 2003)
Owner	: <i>Cairo Chemical Industries Company</i>
Client	: <i>Cairo Chemical Industries Company</i>
Description	: <i>The project is a chemical industry factory consisting of the main production area, substation & administration building.</i> <i>The total connected power is around 1 MVA.</i>
Scope of work	: <i>Design Drawings & Tender Documents for all Electrical Works.</i> <i>(Electrical works Budget is around 2 Million EGP)</i>
<hr/>	
Project	: <u>WARE HOUSE 1, P & G FACTORY</u>
Location	: 6 th October City, Egypt (Executed 2006)
Owner	: <i>Procter & Gamble Egypt</i>
Client	: <i>Consulting Engineering Company (Consulting Office)</i>
Description	: <i>The project is the illumination of ware house 1at P&G factory due to architectural modifications & changing ware house products types.</i> <i>The total connected power is around 0.2 MVA.</i>
Scope of work	: <i>Design Drawings & Tender Documents for all Electrical Works.</i> <i>(Electrical works Budget is around 0.35 Million EGP)</i>
<hr/>	

Project : **SUEZ POWER PLANT**
Location : *Suez, Egypt (Executed 2005)*
Owner : *Suez Gulf Development Company*
Client : *EL-Wadi for Integrated Systems (Electrical Contractor)*
Description : *The project is a generating plant with 6 generator sets together with control room, maintenance area, tans area, pumps area & auxiliaries' area. The total connected power is around 0.5 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 0.8 Million EGP)*

Project : **AL-KAMIL GAS TURBINE POWER PLANT**
Location : *AL-Kamil, Sultanate of Oman (Executed 2004)*
Owner : *AL-Kamil Company*
Client : *Consulting Engineering Company (Consulting Office)*
Description : *A large Gas Turbine power plant located at the eastern area of Sultanate of OMAN. It consists of 3 generating turbines with total power output of 270 MW. All turbines are dual fuel types (fuel gas & fuel oil). The project is a BOO basis owned by AL-KAMIL power company. The plant consists of the following buildings:*

- 1. Fuel Tanks.*
- 2. Gate house.*
- 3. Fire Pump House.*
- 4. Desalination Plant.*
- 5. Workshop & Store.*
- 6. Control & Administration buildings.*
- 7. Diesel Generator Building.*
- 8. Air Compressor Building.*
- 9. Generating Area for the 3 Gas Turbines.*
- 10. Future Extension Area.*

Scope of work : *Design of low voltage and low current networks for all buildings as well as site networks. (Electrical works Budget is around 0.35 Million EGP)*

Project : **VITO PHARMA FACTORY**
Location : *Borg EL-Arab, Alexandria, Egypt (Executed 2012)*
Owner : *Vito Nerhado International For Pharmaceutical Industries*
Client : *Centre for Engineering Studies & Design (Consulting Office)*
Description : *The project is a new factory for pharmaceutical products. The factory area is around 20000m² consisting of main production building with 3 floors including production, packing, storage & laboratories areas as well as office & administration areas, veterinary production building, secondary production buildings & utility plant . The total connected power is around 3 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electromechanical Works.
(Electromechanical works Budget is around 15 Million EGP)*

Project : **MEUBLE EL-CHARQ FACTORY**
Location : *Badr City, Egypt (Executed 2011)*
Owner : *Meuble EL-Charq Company*
Client : *Centre for Engineering Studies & Design (Consulting Office)*
Description : *The project is a new factory established by Meuble EL-Charq company which is specialized in production of luxury furniture, where this factory shall be responsible for the production of chairs only including chairs for office use. The factory consists of the production building, warehouses, lockers, 4 floors administration building, substation & security gates. Total land area around 100000 m² with built up area around 50000m². The total connected power is around 6 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works. (Electrical works Budget is around 25 Million EGP)*

Project : **EL-TAWHEED FACTORY**
Location : *Borg EL-Arab, Alexandria, Egypt (Executed 2011)*
Owner : *EL-Tawheed Company For Modern Industries*
Client : *Centre for Engineering Studies & Design (Consulting Office)*
Description : *The project is a new factory for cosmetic products (i.e. creams, shampoo, oil.....etc.). Total land area around 10000m². The factory consists of the 2 floors production building together with offices, lockers as well as utilities area & security gates. The total connected power is around 1 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works. (Electrical works Budget is around 5 Million EGP)*

Project : **PRESS FACTORY**
Location : *Sadat City, Egypt (Under Construction)*
Owner : *Albert Farahat*
Client : *Albert Farahat*
Description : *The project is a new factory for paper press, packing & distribution. The factory consists of the 3 floors production building together with offices at mezzanine level, lockers as well as utilities area & security gates. Total land area around 6500m² with built up area around 15000m². The total connected power is around 1 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works. (Electrical works Budget is around 5 Million EGP)*

Project : **HALLIBURTON KATTAMEYA WORK SHOP**
Location : *Kattameya, Cairo, Egypt (Executed 2010)*
Owner : *Halliburton*
Client : *Barco Misr for Contracting (Electromechanical Contractor)*
Description : *The project is a new work shop area comprising 2 pump rooms, electrical substation, security building, test cell building, compressor room & the main work shop building including 2 main workshops, laboratories area & administration areas. The total connected power is around 1 MVA.*
Scope of work : *Work Shop Drawings for all Electrical Works.*
(Electrical works Budget is around 3 Million EGP)

Project : **VITO PHARMA FACTORY**
Location : *Borg EL-Arab, Alexandria, Egypt (Executed 2012)*
Owner : *Vito Nerhado International For Pharmaceutical Industries*
Client : *BIC / PHI / Sanitaire (Contracting Companies)*
Description : *The project is a new factory for pharmaceutical products. The factory area is around 20000m² consisting of main production building with 3 floors including production, packing, storage & laboratories areas as well as office & administration areas, veterinary production building, secondary production buildings & utility plant . The total connected power is around 3 MVA.*
Scope of work : *Work Shop Drawings for all Electromechanical Works.*
(Electromechanical works Budget is around 15 Million EGP)

Project : **PACKING BUILDING, P & G FACTORY**
Location : *6th October City, Egypt (Executed 2009)*
Owner : *Procter & Gamble Egypt*
Client : *Consulting Engineering Company (Consulting Office)*
Description : *The project is the illumination of the packing building at P&G factory due to new architectural modifications & addition of 2 new packing lines.*
The total connected power is around 0.3 MVA.
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*
(Electrical works Budget is around 0.4 Million EGP)

Project : **CAIRO GRAPHIC FACTORY**
Location : *Badr City, Egypt (Executed 2011)*
Owner : *Cairo Graphic & Packing Center*
Client : *Cairo Graphic & Packing Center*
Description : *The project is the new factory built by Cairo Graphic & Packing Center in Badr City with total land area of around 3500m² consisting of administration building with 4 floors with total built area of around 1000m² & production area with around 1700m² in addition to the electrical substation building & guard house. The total connected power is around 1 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 4 Million EGP)*

Project : **DOOR FRAMES FACTORY**
Location : *6th October City, Egypt (Executed 2011)*
Owner : *Egyptian Engineering Agencies*
Client : *Egyptian Engineering Agencies*
Description : *The project is the new factory built by Egyptian Engineering Agencies company for wooden doors & door frames production. The factory located at 6th October City with total land area of around 3500m² consisting of administration building with 2 floors in addition to the electrical substation building & guard house. The total connected power is around 1 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 4 Million EGP)*

Project : **JUHAYNA DISTRIBUTION CENTER**
Location : *Assiut, Egypt (Executed 2013)*
Owner : *Tiba for Commerce & Distribution*
Client : *Engineering Company for Integrated Projects (ECIP)*
Description : *The project is the new factory & distribution center built by Tiba company for producing yoghurt located at Assiut as well as a distribution center for all other Juhayna products. The factory consists of the main processing area, packing area, raw milk area, cold rooms, 2 electrical low voltage substations, 1 medium voltage substation, large storage building, cafeteria, boiler room, fire fighting room & water treatment plant. The total connected power is around 4 MVA.*
Scope of work : *Electrical work shop drawings & Material Take Off.
(Electrical works Budget is around 8 Million EGP)*

Project : **JAPAN FOOD SOLUTIONS NEW FACILITY**
Location : *6th October City, Egypt (Executed 2013)*
Owner : *Japan Food Solution*
Client : *Engineering Company for Integrated Projects (ECIP)*
Description : *The project is the new facility for Japan food solutions company located at 6th October City with total land area of around 13000m² & built up area around 7500m². The project consists of administration area, production area for freezing food & a large storage freezer area in addition to the electrical substation building & guard house.*
The total connected power is around 2 MVA.
Scope of work : *Electrical work shop drawings & Material Take Off.*
(Electrical works Budget is around 4 Million EGP)

Project : **JUHAYNA AMMONIA PLANT**
Location : *Assiut, Egypt (Executed 2014)*
Owner : *Tiba for Commerce & Distribution*
Client : *Engineering Company for Integrated Projects (ECIP)*
Description : *The project is the new Ammonia plant built by Tiba company for producing yoghurt located at Assiut. The project comprises 2 Ammonia chillers with all respective related facilities. The total connected power is around 0.5 MVA.*
Scope of work : *Electrical work shop drawings & Material Take Off.*
(Electrical works Budget is around 2 Million EGP)

Project : **EL-ZAMIL STEEL FACTORY**
Location : *Sadat City, Egypt (Executed 2014)*
Owner : *El-Zamil Steel Company*
Client : *Engineering Company for Integrated Projects (ECIP)*
Description : *The project is the new Zamil steel factory located at Sadat city with total area around 150000 m² with built up area around 100000 m² and future extension area. The project consists of main production area, ware houses, administration building, staff canteen, mosque, power plant & other MEP utilities zone. The total connected power is around 6 MVA.*
Scope of work : *Electrical work shop drawings & Material Take Off.*
(Electrical works Budget is around 10 Million EGP)

Project : **EVER GROW FACTORY ADMINISTRATION BUILDING**
Location : *Sadat City, Egypt (Executed 2014)*
Owner : *Ever Grow Company*
Client : *Engineering Company for Integrated Projects (ECIP)*
Description : *The project is the new administration building for Ever Grow Factory located at Sadat city. The building consists of 4 floors including different department's offices, staff cafeteria, general manager office & its related meeting rooms & multi-purpose hall. The total connected power is around 0.5 MVA.*
Scope of work : *Electrical Design & Work Shop Drawings & Material Take Off.*
(*Electrical works Budget is around 2 Million EGP*)

Project : **EPCI PHARMACHEUTICAL FACTORY**
Location : *Benni-Suef, Egypt (Under Construction)*
Owner : *El-Hekma Pharmaceutical Industries*
Client : *Engineering Company for Integrated Projects (ECIP)*
Description : *The project is the new pharmaceutical factory built by El-Hekma Jordanian company in Benni-Suef, Egypt. The factory total area is around 20000 m² with built up area around 60000 m². The factory comprises production area with sterile zone, ware house, 4 floors administration building, MEP utilities zone including boiler, air compressor, chillers & transformers. The total connected power is around 1.5 MVA.*
Scope of work : *Electrical work shop drawings & Material Take Off.*
(*Electrical works Budget is around 8 Million EGP*)

Project : **NEW HOPE FACTORY**
Location : *Sadat City, Egypt (Executed 2013)*
Owner : *New Hope Egypt*
Client : *Engineering Company for Integrated Projects (ECIP)*
Description : *The project is the New Hope factory located at Sadat city with total area around 20000 m². New Hope is the leading agribusiness including meet, eggs, poultry, and milk as well chemical materials. The project comprises production area, raw material ware house, finished material warehouse, administration building, and electrical substation & MEP facilities. The total connected power is around 1 MVA.*
Scope of work : *As Built drawings & Material Take Off.*
(*Electrical works Budget is around 2.5 Million EGP*)

ADMINISTRATION BUILDINGS



BARCO OFFICE



RAYA HEAD QUARTER



LUSAIL TOWER



MENA GENERAL SECURITY BUILDING



POLARIS PARK ADMINISTRATION



BARCLAYS BANK EGYPT HEAD QUARTER



INFORMATION TECHNOLOGY INSTITUTE (ITI)

ADMINISTRATION BUILDINGS

Project : **BARCLAYS BANK EGYPT HEAD QUARTER**
Location : *City Stars, Capital 1, Cairo, Egypt (Executed 2015)*
Owner : *Barclays Bank*
Client : *GEFECO (Electromechanical Contractor)*
Description : *The project is the new head quarter of Barclays Bank at Egypt consisting of 12 floors for different bank departments in addition to dedicated electrical substation & data center. The bank is using the most up to date technology for all systems as well as redundant electrical power supply system to overcome electrical repetitive power cut off problem facing Egypt. The total connected power is around 3 MVA.*
Scope of work : *Work Shop Drawings for all Electrical Works.
(Electrical works Budget is around 12 Million EGP)*

Project : **BARCO OFFICE BUILDING**
Location : *New Cairo, Cairo, Egypt (Under Construction)*
Owner : *Barco Real Estate*
Client : *Barco Contracting*
Description : *The project is 7 floors modern office building designed for Core & shell use together with a whole floor dedicated as a bank branch. The total connected power is around 2 MVA.*
Scope of work : *Design Drawings for all Electrical Works.
(Electrical works Budget is around 10 Million EGP)*

Project : **POLARIS ADMINISTRATION BUILDING**
Location : *Polaris Industrial Zone, 6th October City, Egypt (Executed 2014)*
Owner : *Polaris Industrial Zone*
Client : *Engineering Company for Integrated Projects (ECIP)*
Description : *A 4 floors administration building located at Polaris Turkish industrial zone. The building is divided into offices dedicated to each industrial plot. The total connected power is around 2 MVA.*
Scope of work : *Work Shop Drawings & As Built for all Electrical Works.
(Electrical works Budget is around 8Million EGP)*

Project : **RENOVATION OF GERMAN TRADE CHAMBER**
Location : *Cairo, Egypt (Executed 2003)*
Owner : *German Trade Chamber*
Client : *EL-Wadi for Integrated Systems (Electrical Contractor)*
Description : *The project is the renovation of some administration offices areas.*
Scope of work : *Work Shop Drawings for all Electrical Works as well as AS BUILT Drawings.*

Project : **SIGMA ADMINISTRATION BUILDING**
Location : *Kattameya, New Cairo, Egypt (Executed 2000)*
Owner : *Sigma Pharmaceutical Company*
Client : *Connect (Consulting Office)*
Description : *A 3 floors administration building located at Kattameya owned by SIGMA company. The total connected power is around 0.2 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 2 Million EGP)*

Project : **INFORMATION TECHNOLOGY INSTITUTE**
Location : *Smart Village, 6th October City, Egypt (Executed 2008)*
Owner : *Ministry Of Communication & Information Technology*
Client : *Techno Engineering Office (Consulting Office)*
Description : *The project is the information technology institute managed by the ministry of communications located at the smart village community. The building consists of 4 spacious floors with big multipurpose hall, computer laboratories and large computer classes. All areas are equipped with the most up to date technology especially for computer labs & halls.

The total connected power is around 4MVA.*
Scope of work : *Work Shop Drawings for all Electrical Works.
(Electrical works Budget is around 15 Million EGP)*

Project : **MENTOR GRAPHICS REGIONAL OFFICE BUILDING**
Location : *Heliopolis, Cairo, Egypt (Executed 2009)*
Owner : *Mentor Graphics Egypt*
Client : *EL-Nour Consulting Group (Consulting Office)*
Description : *The project is a large administration office building comprising 14 floors of modern up to date office area together with data centers, engineering labs, conference rooms & 500 person multipurpose room as well as parking area & power substation.

The total connected power is around 1MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 8 Million EGP)*

Project : **CEC ADMINISTRATION & COMMERCIAL BUILDING**
Location : 6th October City, Egypt (Executed 2007)
Owner : Consulting Engineering Company
Client : Consulting Engineering Company (Consulting Office)
Description : The project is a large administration and commercial building consisting of 3 administration buildings with 2 commercial centers in between as well as large parking area & power substation.
The total connected power is around 1MVA.
Scope of work : Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 5 Million EGP)

Project : **ETISALAT NASR CITY CORE CENTER**
Location : Nasr City, Cairo, Egypt (Executed 2008)
Owner : Etisalat Misr
Client : Consulting Engineering Company (Consulting Office)
Description : The project is the main core center for ETISALAT in Cairo. It is located in a newly built residential tower in Nasr City area. The core center shall occupy the whole ground floor (around 2500m²). The core center shall include all the telecommunication equipment, rectifiers & UPS, under raised floor air conditioning as well as security & life safety systems (i.e. fire fighting & access control).
The total connected power is around 2 MVA.
Scope of work : Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 4 Million EGP)

Project : **ETISALAT RAMSIS CORE CENTER**
Location : Ramsis, Cairo, Egypt (Executed 2009)
Owner : Etisalat Misr
Client : Consulting Engineering Company (Consulting Office)
Description : The project is the main core center for ETISALAT in Ramsis. It is located in the Egyptian Main Post Office building in the whole area of second floor (around 3000m²). The core center shall include all the telecommunication equipment, rectifiers & UPS, under raised floor air conditioning as well as security & life safety systems (i.e. fire fighting & access control).
The total connected power is around 2 MVA.
Scope of work : Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 4 Million EGP)

Project : **ISMAILIA CIVIL STATUS SERVICE CENTER**
Location : *Ismailia, Egypt (Executed 2001)*
Owner : *Ministry of Internal Affairs*
Client : *Architectural Design Center (Consulting Office)*
Description : *The project is a civil status service center located at Ismailia City. It consists of 4 floors of offices together with all related facilities.*
The total connected power is around 0.3 MVA.

Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*
(Electrical works Budget is around 1 Million EGP)

Project : **ARISH CIVIL STATUS SERVICE CENTER**
Location : *Arish, Egypt (Executed 2001)*
Owner : *Ministry of Internal Affairs*
Client : *Architectural Design Center (Consulting Office)*
Description : *The project is a civil status service center located at Arish City. It consists of 4 floors of offices together with all related facilities.*
The total connected power is around 0.3 MVA.

Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*
(Electrical works Budget is around 1 Million EGP)

Project : **UTILITY CONTROL CENTER**
Location : *Marsa Ghalib City, Marsa Alam, Egypt (Executed 2002)*
Owner : *EMAK For Touristic Development*
Client : *Consulting Engineering Company (Consulting Office)*
Description : *The project is the center controlling different utilities serving the whole MARSA GHALIB city; also it accommodates some administration offices.*
The total connected power is around 0.3 MVA.

Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*
(Electrical works Budget is around 1.2 Million EGP)

Project : **RENOVATION OF AMERICAN CHAMBER OF COMMERCE**
Location : *Cairo, Egypt (Executed 2003)*
Owner : *American Chamber of Commerce*
Client : *EL-Wadi for Integrated Systems (Electrical Contractor)*
Description : *The project is the renovation of some administration offices areas.*
Scope of work : *Work Shop Drawings for all Electrical Works as well as AS BUILT Drawings.*

Project : **CIVIL DEFENSE TRAINING ACADEMY**
Location : Abu Dhabi, United Arab Emirates (Executed 2011)
Owner : Ministry Of Interior, Abu Dhabi Police
Client : Mammut Contracting / Talent Engineering Company (TEC)
Description : The project is the administration building of the civil defense training academy located at Abu Dhabi, United Arab Emirates. The building total area is around 6000 m² on one floor only with roof above for mechanical equipment. The building includes 20 class & 10 laboratories in addition to a large lecture hall with 500 seats.
Scope of work : Work Shop Drawings for all Electromechanical Works.
(Electromechanical works Budget is around 1.5 Million \$)

Project : **RAYA HEAD QUARTER**
Location : 6th October City, Egypt (Executed 2006)
Owner : Raya Holding
Client : Leeds Corp. / Raya Facility Management
Description : The project is the new head quarter for Raya Holding located at 6th October city. The building consists of 2 basements dedicated for parking & MEP main equipment installations & data center. Ground floor is dedicated for mobile maintenance activities while other 6 floors are dedicated for Raya companies & subsidiaries. The total connected power is around 5 MVA.
Scope of work : Site Inspection & AS BUILT Drawings for all Electromechanical Works.
(Electromechanical works Budget is around 30 Million EGP)

Project : **GENERAL SECURITY BUILDING**
Location : Menna, KSA (Executed 2014)
Owner : Ministry Of Interior, KSA
Client : Vision / Pioneer-Leads Engineering
Description : The project is the new general security building located at Mena for following up the pilgrims during stay at Mena during Haj season. The building consists of 1 basement dedicated as parking & used for mechanical equipment. Ground & 3 floors are dedicated for different police departments use. Fourth & Fifth floors are dedicated to the prince of Makkah together with meeting rooms, main office, main suite & guest rooms. The total connected power shall be around 2 MVA.
Scope of work : Work Shop Drawings for all Electromechanical Works.
(Electromechanical works Budget is around 20 Million SR)

Project : **DEUTCHE BANK**
Location : *New Cairo, Egypt (Executed 2013)*
Owner : *Deutche Bank*
Client : *Barco for construction*
Description : *The project is the new premises of Deutche Bank at Cairo located at new Cairo City. The bank is using the most up to date technology connecting Cairo local team to the bank UK IT system. The bank branch is covering 1 complete floor with total area around 1000 m². The total connected power is around 400kVA.*
Scope of work : *Design Development & working Drawings for all Electrical Works.
(Electrical works Budget is around 3 Million EGP)*

Project : **LUSAIL TOWER**
Location : *Lusail, Doha, Qatar (Under Construction)*
Owner : *H.E. Mohamed Nasr Hasan Al-Nasr*
Client : *Atlantic Contracting / Talent Engineering Company (TEC)*
Description : *The project is the new administration building located at Lusail, Doha, Qatar with total built up area around 30000 m². The building consists of 3 basements dedicated for parking & MEP utilities, ground floor dedicated as commercial shops & 18 floors as offices & residential flats. The total connected power is around 6 MVA.*
Scope of work : *Work Shop Drawings for all Electrical Works.
(Electromechanical works Budget is around 8 Million \$)*

Project : **TAYYAR OFFICE**
Location : *King Road Tower, Jeddah, KSA (Executed 2014)*
Owner : *Tayyar Investment Group*
Client : *Tayyar Investment Group*
Description : *The project is the new administration office of Tayyar Group located at the prestigious King Road Tower at Jeddah, KSA. The office is around 500 m² with all modern offices facilities.*
Scope of work : *Design Drawings for all Electromechanical Works.
(Electromechanical works Budget is around 0.25 Million SR)*

COMMERCIAL BUILDINGS



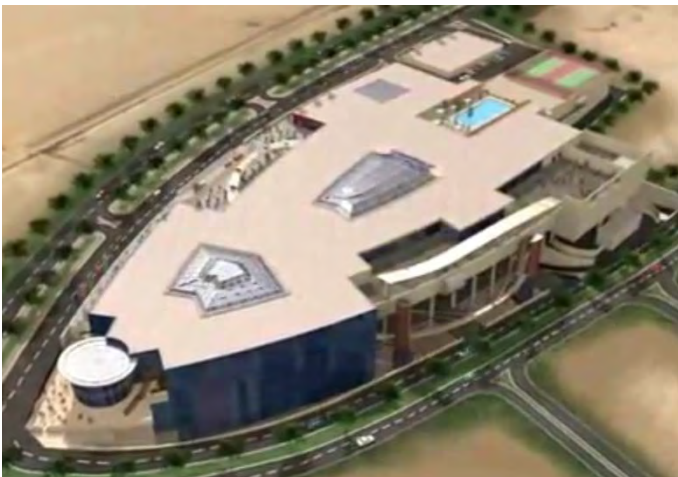
KIDZANIA - EGYPT



MADINATY BRITISH SCHOOL



WTC ALGERIA



SUN CITY MALL



THE SPOT MALL



KING ABDUL-AZIZ LIBRARY - KSA



SKY PLAZA MALL

COMMERCIAL BUILDINGS

Project : **WORLD TRADE CENTER**
Location : *Algeria City, Algeria (Executed 2002)*
Owner : *Faisal Ben Gasem Investment Company*
Client : *MAK (Consulting Office)*
Description : *The project is a typical World Trade Center with its 2 identified 19 floor towers & 7-floor shopping mall and 3 parking levels. The towers shall be operated as offices or a large bank. The shopping mall consists of 54 retails, cinema complex, huge 3-floor supermarket, large anchor store, and large entertainment area & food court served by 8 restaurants. The project is supplied with 14 prestigious lifts & 7 panoramic elevators.*
The total connected power is around 9 MVA that are distributed on 2 substations, one for the 2 towers while the other serves the shopping mall.
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*
(Electrical works Budget is around 30 Million US\$)

Project : **KING ABDUL AZIZ LIBRARY**
Location : *Riyadh, Kingdom Saudi Arabia (Executed 2009)*
Owner : *Riyadh City Authority*
Client : *Nassar Engineering Group (Consulting Office)*
Description : *The project is a prestigious library to be constructed in Riyadh at the kingdom of Saudi Arabia. It consists of 4 floors with a big book storage area at basement, multipurpose hall, children theatre & 6 big halls for reading & computer applications for both males & females.*
The total connected power is around 2.5 MVA.
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*
(Electrical works Budget is around 8 Million SR)

Project : **THE SPOT**
Location : *New Cairo, Egypt (Under Construction)*
Owner : *Masaa for Real Estate*
Client : *Engineering Company for Integrated Projects (ECIP)*
Description : *The project is a prestigious mall with built up area around 30000 m², consisting of 3 floors comprising, shops, food court, hyper market, gymnasium & a dedicated administration floor together with a basement floor for MEP utilities & parking. The total connected power is around 4 MVA.*
Scope of work : *Workshop Drawings for all Electromechanical Works.*
(Electrical works Budget is around 35 Million EGP)

Project : **KIDZANIA**
Location : *Cairo Festival City, Egypt (Executed 2014)*
Owner : *Cairo Festival City*
Client : *Mivan Contracting / Talent Engineering Company (TEC)*
Description : *The project is set within the festival area of Cairo Festival City, New Cairo, Egypt. The total area for Kidzania first establishment in Egypt is around 8000m², with two floors in addition to all related service areas. Kidzania is themed as a child-sized replica of a real city, including buildings, shops and theaters, as well as vehicles and pedestrians moving along its streets. In this city, children -aged 2 through 14- learn about the adult world, the value of money and work by experiencing up to 70 different professions. This will be the first establishment for Kidzania along the African continent & the first in Egypt.*
Scope of work : *Work Shop Drawings for all Electromechanical Works.
(Electromechanical works Budget is around 8 Million EGP)*

Project : **OPEN AIR MALL - MADINATY**
Location : *Madinaty, Egypt (Under Construction)*
Owner : *Talaat Mostafa Group (TMG)*
Client : *Consulting Engineering Company (CEC)*
Description : *The project is the new huge open air mall located at Madinaty. The mall consists of around 20 different buildings each of 1 floor including all types of shops, hyper market, cinemas, lounges, restaurants & cafes.*
Scope of work : *Design Drawings for all Telecommunication Networks.*

Project : **BRITISH SCHOOL - MADINATY**
Location : *Madinaty, Egypt (Under Construction)*
Owner : *Talaat Mostafa Group (TMG)*
Client : *Consulting Engineering Company (CEC)*
Description : *The project is the new British school construction located at Madinaty. The British school new building consists of 4 floors together with sports facilities areas, swimming pool, computer labs, large library & theatre.*
The British school shall be equipped with all up to date technology facilities using a complete data network to be matching with Madinaty infrastructure network.
Scope of work : *Design Drawings for all Telecommunication Networks.*

Project : **SKY PLAZA MALL**
Location : *Shrouk City, Egypt (Executed 2013)*
Owner : *Beverly Hills Real Estate*
Client : *Beverly Hills Real Estate*
Description : *Sky Plaza mall will be the new icon of Shrouk City and the first mall at Shrouk City that has a wide variety of both international brands and local specialty stores. It will have wonderful open area cafés, various restaurants offering a selection of world cuisine that will satisfy different tastes, the second largest Carrefour in Egypt, a family entertainment area, a bowling alley and 10 cinemas under one roof. The project total land area is around 88000 m² and will provide around 500000 m² of retail and leisure arranged over ground, lower ground and two uppers floors with some 400 units and parking for 1600 cars. The mall consists of 4 floors; 3 main entrances which provides an easy access to all the floors, and 3 panoramic elevators in addition to escalators & travelators. The total connected power is around 6 MVA.*
Scope of work : *Design Drawings, Tender Documents & Site Supervision for all Electrical Works. (Electrical works Budget is around 15 Million EGP)*

Project : **SUN CITY MALL**
Location : *Sheraton Heliopolis, Egypt (Executed 2012)*
Owner : *HNS Group*
Client : *Barkouky Organization (BO)*
Description : *Sun City Mall is one of the prestigious malls in Egypt located at Sheraton Heliopolis area near by Cairo International Airport. Total built up area of the complex is around 200000 m² together with all its related facilities. The project consists of 7 stories including multi-story car park that can accommodate 1500 vehicles at the same time, retails, 6 cinemas, Carrefour hyper market, children fun area as well as a small hotel with 12 rooms. The total connected power is around 20 MVA.*
Scope of work : *Design of Bus Duct system (EATON) for the whole building including horizontal runs & vertical runs as well as electrical substations.
(Electrical works Budget is around 6 Million \$)*

HOSPITALS & HEALTH CARE FACILITIES



NEUROSCIENCE & CARDIAC CENTER - KFMC - KSA



AMBULANCE TRAINING CENTER



PSYCHIATRIC HEALTH RESORT



MOH ADMINISTRATION



LIVER TRANSPORT CENTER



HELWAN GENERAL HOSPITAL



LUXOR AMBULANCE CENTER



NASER GENERAL HOSPITAL

HOSPITALS & MEDICAL FACILITIES

Project : **GOMHORIA HOSPITAL**
Location : *Abdeen, Cairo, Egypt.*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is introducing a complete earthing network fro the hospital including main earthing for electrical substations & network as well as clean earthing for light current systems, laboratories & operation rooms.*
Scope of work : *Design of earthing network as well as Tender Documents.*

Project : **HELWAN PUBLIC HOSPITAL**
Location : *Helwan, Egypt (Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of the existing buildings of Helwan General Public Hospital as well as the addition of new buildings as follows:*

- a. Main Building.*
- b. Clinics Building.*
- c. Mortuary Building.*
- d. Electrical Substation.*

The total capacity of the hospital is around 200 beds including ICU & CCU areas, 9 operation theatres, emergency cases area, hemodialysis area with 30 beds.

The total connected power is around 4 MVA.

Scope of work : *Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 25 Million EGP)*

Project : **HELIOPOLIS HOSPITAL**
Location : *Heliopolis, Cairo, Egypt.*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of third floor of Heliopolis Hospital including 11 patients' rooms as well as their respective medical serving areas.*

The total connected power is around 0.1 MVA.

Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : **HELWAN FEVER HOSPITAL**
Location : *Helwan, Egypt(Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of the existing buildings in Helwan Fever Hospital as well as the addition of new buildings as follows:*
1- Administration Building.
2- Patient Building.
3- Isolation & Care Building.
4- Mortuary Building.
5- Laboratory.
6- Kitchen & Laundry.
7- Electrical Substation.
The total capacity of the hospital is around 100 beds including ICU & CCU areas & emergency cases area as well as isolation areas.
The total connected power is around 3.2 MVA.
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*
(Electrical works Budget is around 20 Million EGP)

Project : **BEER EL-ABD HOSPITAL**
Location : *Beer EL-Abd, Egypt (Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of the existing building in Beer EL-Abd hospital to be dedicated for indoor patients only as well as adding new facilities to the hospital to be upgraded to a main hospital. The following buildings were added to the existing building:*
1- Administration Building.
2- Out Patient Building.
3- Operations, Isolation & Care Building.
4- Radiology Building.
5- Laboratory Building.
6- Emergency Cases Building.
7- Kitchen, Laundry & Mortuary Building.
8- Electrical Substation.
9- Water Tanks & Pump Rooms.
The total capacity of the hospital is around 75 beds including ICU & & emergency cases area as well as isolation areas.
The total connected power is around 2.5 MVA.
Scope of work : *Design Drawings & Tender Documents for all Electromechanical Works.*
(Electromechanical works Budget is around 20 Million EGP)

Project : **HELWAN MOH ADMINISTRATION BUILDING**
Location : *Helwan, Egypt (Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of the existing building in Helwan Psychiatric Hospital to accommodate the new premises of MOH offices in Helwan Governorate. The building consists of 6 floors in addition to parking areas, electrical substation & security gates. The total built area is around 7500m². The total connected power is around 1 MVA.*
Scope of work : *Design Drawings & Tender Documents for Electrical & HVAC Works. (Electrical works Budget is around 5 Million EGP)*

Project : **EGYPTIAN AMBULANCE ORGANIZATION BUILDING**
Location : *Guiza, Egypt (Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the new building for the newly established Egyptian Ambulance Organization. The building consists of 7 floors which includes offices, VIP areas, call takers area, dispatch center as well as training rooms, stores & electrical substation. The project uses the most up to date technologies for operation where all systems are interconnected through a LAN network. Separate LAN network was implemented for the ambulance system operation. The total connected power is around 4 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works. (Electrical works Budget is around 12.5 Million EGP)*

Project : **SUEZ AMBULANCE BUILDING**
Location : *Suez, Egypt (Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the new ambulance building in Suez for the newly established Egyptian Ambulance Organization. The building consists of 2 floors which includes offices, call takers area, dispatch center as well as training rooms, stores, staff facilities & electrical substation. The total connected power is around 1 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electromechanical Works. (Electromechanical works Budget is around 5 Million EGP)*

Project : **EL-NAKHIL HOSPITAL RENOVATION**
Location : *Maadi, Cairo, Egypt (Executed 2010).*
Owner : *Andalusia For Medical Services.*
Client : *Andalusia Engineering Services.*
Description : *The project is the renovation of the existing building of EL-Nakhil hospital located in maadi. The renovation includes the whole basement utilities including kitchen, laundry, fire pumps & stores as well as the renovation of the complete second & third floors to establish new operation areas as well as new intensive unit care area.*
Scope of work : *Design Drawings & Tender Documents for all Electromechanical Works.*
(Electromechanical works Budget is around 4 Million EGP)

Project : **HELWAN PSYCHIATRIC HOSPITAL**
Location : *Helwan, Egypt (Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of the electrical networks of Helwan Psychiatric Hospital as well as the addition of a complete outdoor & street lighting network to the hospital. The total connected power is around 1 MVA.*
Scope of work : *Design Drawings & Tender Documents for Electrical Networks.*
(Electrical works Budget is around 2 Million EGP)

Project : **DR. YASSIN ABDEL-GHAFAR MEDICAL & RESEARCH CENTER FOR LIVER DISEASES**
Location : *Nasr City, Egypt (Under Construction)*
Owner : *Dr. Yassin Abd EL-Ghafar*
Client : *Civil (Consulting Office)*
Description : *The project is the new medical & research center for liver diseases to be constructed just beside the liver medical center of the famous Dr. Yassin Abd EL-Ghafar where it will be operated together with the old medical center. The new project consists of basement floor including kitchen, laundry & sterilization areas as well as 5 floors including outpatient clinics, 5 operation rooms, 16 intensive care unit beds, radiology department, administration areas & a multi-purpose hall. The total built area is around 15000m². The total connected power is around 2 MVA.*
Scope of work : *Design Drawings & Tender Documents for Electrical Networks.*
(Electrical works Budget is around 8 Million EGP)

Project : **LUXOR AMBULANCE BUILDING**
Location : *Luxor, Egypt (Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the new ambulance building in Luxor for the newly established Egyptian Ambulance Organization. The building consists of 2 floors which includes offices, call takers area, dispatch center as well as training rooms, stores, staff facilities & electrical substation.*
The total connected power is around 1.25 MVA.
Scope of work : *Design Drawings & Tender Documents for all Electromechanical Works.*
(Electromechanical works Budget is around 5 Million EGP)

Project : **ELZERAAYEEN HOSPITAL RENNOVATION**
Location : *Dokki, Guiza, Egypt (Executed 2013)*
Owner : *Ministry Of Agriculture*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of all electromechanical networks & utilities of the existing zeraeyeen hospital. The hospital consists of 3 floors dedicated for emergency department, electromechanical utilities area, kitchen, laundry, radiology, laboratories, intensive care units, 5 operation theatres, hem dialysis area, cafeterias & administration areas in addition to 6 floors dedicated only for patient rooms. The total connected power is around 3 MVA.*
Scope of work : *Design Drawings, Tender Documents & Site Supervision for all Electrical Works.*
(Electrical works Budget is around 5 Million EGP)

Project : **AMBULANCE ORGANIZATION TRAINING CENTER**
Location : *Guiza, Egypt (Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the new training center for the newly established Egyptian Ambulance Organization. The building consists of 7 floors which include offices, classes for training of call takers, dispatchers as well as training rooms, stores & electrical substation.*
The total connected power is around 4 MVA.
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*
(Electrical works Budget is around 12.5 Million EGP)

Project : **CLINIC BUILDING - MADINATY**
Location : *Madinaty, Egypt (Executed 2014)*
Owner : *Talaat Mostafa Group (TMG)*
Client : *Consulting Engineering Company (CEC)*
Description : *The project is the new clinic center construction located at Madinaty. The clinical center new building consists of 3 floors including outpatient areas, inpatient areas, intensive care areas & surgery areas.*
The clinical center shall be equipped with all up to date technology facilities using a complete data network to be matching with Madinaty infrastructure network.
Scope of work : *Design Drawings for all Telecommunication Networks.*

Project : **MANSOURA GENERAL HOSPITAL**
Location : *Mansoura, Egypt (Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of the existing Mansoura hospital. The hospital consists of 5 floors including basement dedicated for parking, laundry, kitchen as well as MEP utilities zones. Ground floor comprises outpatient zones, radiology, emergency zone & administration. 3 Floors dedicated for surgical theatres, intensive care units, cardiac care units & patient rooms. The total connected power is around 4 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*
(Electrical works Budget is around 12 Million EGP)

Project : **MOQATAA GENERAL HOSPITAL**
Location : *Moqataa, Mansoura, Egypt (Under Construction)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of the existing Mansoura hospital. The hospital consists of 4 floors including basement dedicated for parking, laundry, kitchen as well as MEP utilities zones. Ground floor comprises outpatient zones, radiology, emergency zone & administration. 2 Floors dedicated for surgical theatres, intensive care units, cardiac care units & patient rooms. The total connected power is around 2.5 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*
(Electrical works Budget is around 8 Million EGP)

Project : **NASER GENERAL HOSPITAL**
Location : *Qaliobeya, Egypt (Executed 2014)*
Owner : *Ministry Of Health.*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of the existing Naser hospital in addition to adding 2 new buildings to the hospital to be upgraded to a general hospital. The following are the main general areas of the hospital:*

- 1- Administration Building.*
- 2- Out Patient Building.*
- 3- Operations, Isolation & Care Building.*
- 4- Radiology Building.*
- 5- Laboratory Building.*
- 6- Emergency Cases Building.*
- 7- Kitchen & Laundry.*
- 8- Mortuary Building.*
- 9- Electrical Substation.*
- 10- Water Tanks & Pump Rooms.*
- 11- Doctors Accommodation Building.*
- 12- Mosque.*
- 13- Staff Building.*

The total capacity of the hospital is around 150 beds including ICU & emergency cases area as well as isolation areas.

The total connected power is around 4.5 MVA.

Scope of work : *Site Supervision for all Electrical Works.*
(Electrical works Budget is around 35 Million EGP)

Project : **NATIONAL INSTITUTE OF NEUROSCIENCE, CANCER, CARDIAC & PROTON CENTERS**

Location : *Jeddah, KSA (Under Construction)*

Owner : *King Fahd Medical City*

Client : *DSI & HLS JV / Pioneer-Leads Engineering*

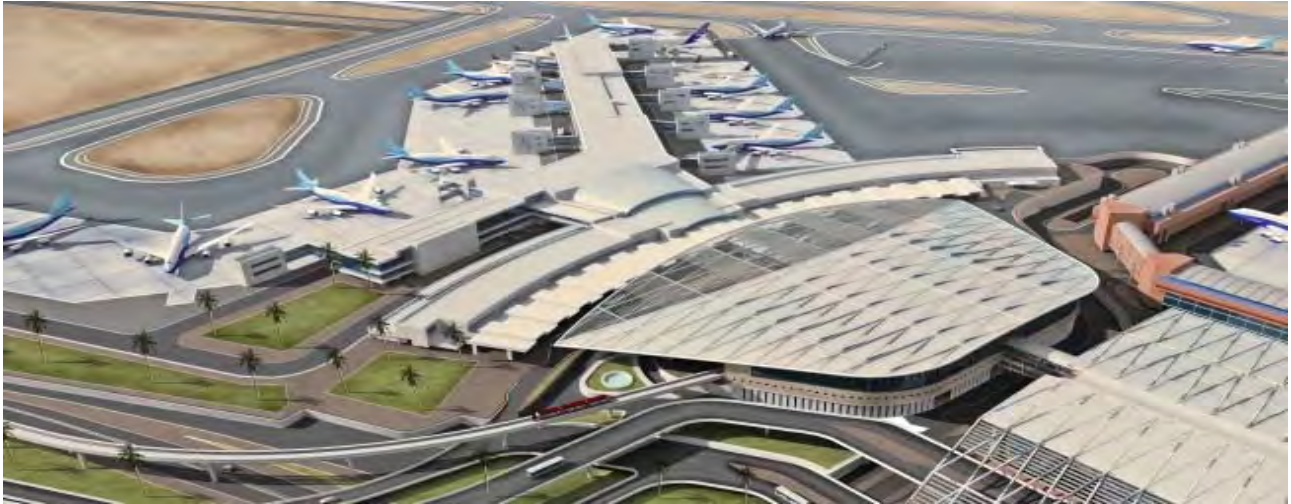
Description : *The project is the new construction of the National Institute of Neuroscience, Cancer, and Cardiac & Proton Centers located as part of King Fahd Medical City at Jeddah, KSA. The project consists of 2 towers with 11 floors each connected together at basements, ground, first & second floors. Basements are used as parking, laundry, kitchen as well as MEP utilities zones. Ground floor comprises 5 proton therapy rooms acting as the first proton therapy center at KSA as well as outpatient zones, emergency zone & administration. The 2 towers comprise Radiology center, Cardiac operation rooms together with neuroscience operation theatres, intensive care units & patient rooms.*

Scope of work : *Design Review for all Electromechanical Works.*
Redesign for all lighting networks including room by room calculations.
Redesign for all HVAC networks including room by room calculations.

Project : **CARDIAC CENTER - DAR ELMONA HOSPITAL**
Location : *Dar El-Mona Hospital, 6th October City, Egypt (Executed 2014)*
Owner : *Dar El-Mona Hospital*
Client : *Civil (Consulting Office)*
Description : *The project is the renovation of the existing second floor of Dar El-Mona hospital to accommodate a new Cardiac center with 5 operation theatres & related cardiac care units with all other required facilities. The total connected power is around 0.5 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.
(Electrical works Budget is around 2 Million EGP)*

Project : **WADI EL-NATROUN LIVER HOSPITAL**
Location : *Wadi El-Natron, North Coast, Egypt (Under Construction)*
Owner : *Charity Institution*
Client : *Civil (Consulting Office)*
Description : *The project is the new medical & research center for liver diseases to be constructed at Wadi EL-Natron to serve Alexandria as well as North Coast area. The new project consists of basement floor including kitchen, laundry & sterilization areas as well as 5 floors including outpatient clinics, 8 operation rooms, 25 intensive care unit beds, radiology department, administration areas & a multi-purpose hall. The total connected power is around 2 MVA.*
Scope of work : *Design Drawings & Tender Documents for Electrical Networks.
(Electrical works Budget is around 10 Million EGP)*

INFRA STRUCTURE & UTILITIES



CAIRO INTERNATIONAL AIRPORT – RENNOVATION OF TERMINAL BUILDING 2



PARK A - CAIRO FESTIVAL CITY



PARK B - CAIRO FESTIVAL CITY



SHAHNIYA LABOUR CAMP



MADINATY SPORTS CLUB



HARAMAIN HIGH SPEED RAIL - MECCAH STATION

INFRA STRUCTURE & UTILITIES

Project : **MADINATY TELECOMMUNICATION NETWORK**
Location : *Madinaty, Egypt (Under Construction)*
Owner : *Talaat Mostafa Group (TMG)*
Client : *Consulting Engineering Company (CEC)*
Description : *The project is the new development by TMG at Cairo-Suez road. Madinaty is a large residential compound including complete residential areas for villas, apartments in addition to a large business area dedicated for offices & banks. Also it includes all recreational facilities as the huge sporting club & golf courses in addition to hotels areas & the huge open air mall.*
Scope of work : *Design Drawings for Telecommunication Networks for phase 1 areas B1, B6, VI, VII & phase 2 areas B3, B7, B11, VGIV & VGV.*

Project : **PARK- A**
Location : *Cairo Festival City, Egypt (Executed 2014)*
Owner : *Cairo Festival City*
Client : *Mivan Contracting / Talent Engineering Company (TEC)*
Description : *Cairo Festival City (CFC) is a premier mixed use urban community spanning 3 million square meters. CFC features a premier indoor-outdoor retail and entertainment resort combined with spectacular luxury residential communities (villas and apartments), prime office spaces, internationally renowned hotels and an automotive park all set within a beautifully landscaped environment.*
The project is set within the offices area of Cairo Festival city where this park is serving the first 2 offices buildings already constructed. The parking area is well designed to accommodate a large number of cars in addition to its fine landscape design to give a better view to the offices.
Scope of work : *Work Shop Drawings for Electrical Works.*

Project : **PARK- B**
Location : *Cairo Festival City, Egypt (Executed 2014)*
Owner : *Cairo Festival City*
Client : *Mivan Contracting / Talent Engineering Company (TEC)*
Description : *The project is set within the offices area of Cairo Festival city where this park is serving 2 separate office buildings already constructed. The parking area is well designed to accommodate a large number of cars in addition to its fine landscape design to give a better view to the offices.*
Scope of work : *Work Shop Drawings for Electrical Works.*

Project	: <u>HARAMAIN HIGH SPEED RAIL – MECCA STATION</u>
Location	: <i>Mecca, KSA (Under Construction)</i>
Owner	: <i>Saudi Railway Organization (SRO)</i>
Client	: <i>ANEL KSA / Pioneer-Leads Engineering</i>
Description	: <i>The project is the new high speed rail way connecting between Mecca & Medina with around 450 kilometers. The rail way shall have 4 main substations at Mecca, Medina, Jeddah & King Abdullah Economic City.</i>
	<i>The rail line is planned to provide a safe and comfortable transport in 320 kilometers per hour (200 mph) electric trains. The railway is expected to carry three million passengers a year, including many Hajj and Umrah pilgrims, helping to relieve traffic congestion on the roads.</i>
	<i>The total connected power for Mecca station is around 16MVA with 2 substations & 13.8kV network in addition to connection with the auxiliary buildings surrounding the station (Car Park, Helipad & Mosque).</i>
Scope of work	: <i>Work Shop Drawings for Electrical Works.</i>
<hr/>	
Project	: <u>RAS LAFFAN INDUSTRIAL CITY, ECS FOR JF, CGTEL & GOV'T. BUILDINGS – QATAR</u>
Location	: <i>Ras Laffan, Qatar (Under Construction)</i>
Owner	: <i>Qatar Petroleum (QP)</i>
Client	: <i>AL-Jaber Contracting Company / TEC</i>
Description	: <i>The project is the new construction for 23 buildings at Ras Laffan Industrial City including 3 main zones, joint forces zone, CGTEL zone & government zone together with all related site networks & utilities.</i>
	<i>All works shall be done in accordance with Qatar Petroleum (QP) tough technical specifications & standards.</i>
Scope of work	: <i>Work Shop Drawings for Electromechanical Works.</i>
<hr/>	
Project	: <u>CITY STARS LAGOON – STAFF HOUSING INFRA STRUCTURE</u>
Location	: <i>Sharm El-Sheikh, Egypt (Under Construction)</i>
Owner	: <i>City Stars Properties</i>
Client	: <i>El-Arabia Real Estate Company</i>
Description	: <i>The project is the infrastructure for staff housing complex for the large City Stars Lagoon project including main raw water lines, water lines, sewage lines, firefighting lines, electrical & low current systems networks as well as pump station & sewage treatment plant.</i>
Scope of work	: <i>Work Shop Drawings for all Electromechanical Works.</i>
<hr/>	

Project : **CITY STARS LAGOON – STAFF HOUSING**

Location : *Sharm El-Sheikh, Egypt (Under Construction)*

Owner : *City Stars Properties*

Client : *El-Arabia Real Estate Company*

Description : *The project is the staff housing complex for the large City Stars Lagoon project. The project consists of 4 staff housing buildings with 3 floors dedicated for VIP staff, 10 staff housing buildings with 3 floors for managerial staff, 4 large staff housing buildings with 3 floors for all other hotel complex staff together with desalination plant, sewage treatment plant, electrical substations as well as central laundry, kitchen & fuel depot. The total connected power is around 12 MVA.*

Scope of : *Work Shop Drawings for all Electromechanical Works.*

work : *(Electromechanical works Budget is around 80 Million EGP)*

Project : **CAIRO INTERNATIONAL AIRPORT TERMINAL 2 RENNOVATION**

Location : *Cairo International Airport, Cairo, Egypt (Under Construction)*

Owner : *Cairo Airport Company*

Client : *LIMAK / BNJV / MELYAP*

Description : *Terminal 2 was demolished & a complete new construction of the new terminal is ongoing adding to the existing terminals 1 & 3 of Cairo Airport. The project is funded by 65% from World Bank & 35% from the Egyptian Government with a total budget of 600 million US dollars.*

The project was awarded to the Turkish airport construction company LIMAK through an international bid. The project is around 300000 m² with built up area of around 170000 m² consisting of terminal departure building, arrival building & 1 finger together with other ancillary service buildings like power plant.

The project consists of 5 electrical substations connected on 5 medium voltage loops backed with emergency generating diesel sets. The total connected power of the project is around 40MVA. Complete power management & building management systems shall be installed to manage the operation of all systems inside the airport terminal.

Latest & up to date technology is applied for all systems networks where a complete LAN backbone system is used to which all telecommunication systems are connected as well as Building Automation System.

The project comprises all apron area design as well as all taxiway & related infrastructure works including the installation of all Airfield Lighting together with all its related transformers & CCRs, Stand Identification devices & Visual Docking Guidance Signs.

Scope of : *Work Shop Drawings for all Electrical Works.*

work : *(Electrical works Budget is around 350 Million EGP)*

Project : **SHAHNIYA LABOUR CAMP**
Location : *Shahniya, Doha, Qatar (Under Construction)*
Owner : *Challenger Trading & Contracting*
Client : *Challenger Trading & Contracting / TEC*
Description : *The project is a labor camp constructed in Shahniya, Doha, Qatar to accommodate 10000 labors with total area around 100000 m². The camp consists of 12 dorms (2 floors), 25 toilet, 6 canteen, super market, clinic, 2 workshop, 2 ware houses, administration, mosque as well as large MEP area & sports area. The total connected power is around 6 MVA provided via continuous power diesel generating plant.*
Scope of work : *Design Drawings for all Electromechanical Works.*
(*Electromechanical works Budget is around 50 Million Qatar Ryal*)

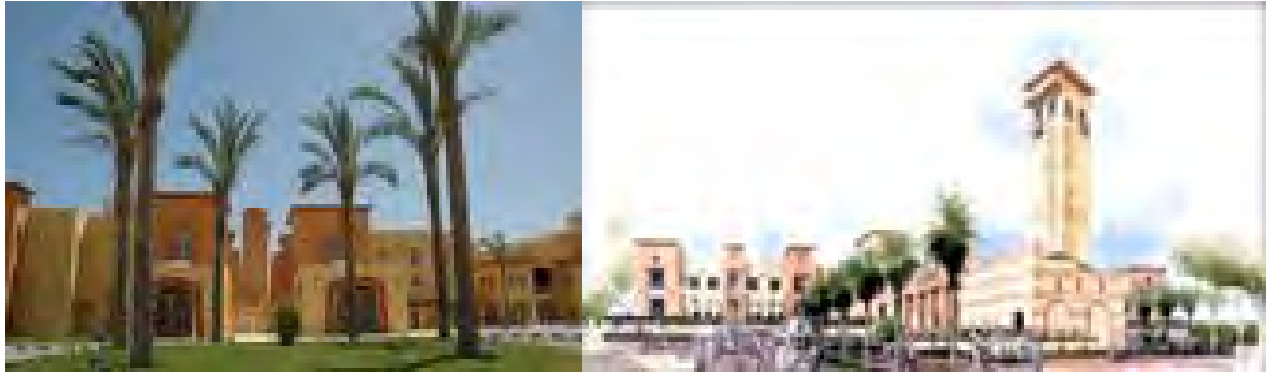
Project : **AL-KHAYAT LABOUR CAMP**
Location : *Shahniya, Doha, Qatar (Under Construction)*
Owner : *Al-Khayat Trading & Contracting*
Client : *Al-Khayat Trading & Contracting / TEC*
Description : *The project is a labor camp constructed in Shahniya, Doha, Qatar to accommodate 15000 labors with total area around 150000 m². The camp consists of 16 dorms (2 floors), 29 toilet, 6 canteen, super market, clinic, 5 workshop, 4 ware houses, administration, mosque as well as large MEP area & sports area. The total connected power is around 10 MVA provided via continuous power 2 diesels generating plants.*
Scope of work : *Design Drawings for all Electromechanical Works.*
(*Electromechanical works Budget is around 80 Million Qatar Ryal*)

Project : **SPORTS CLUB - MADINATY**
Location : *Madinaty, Egypt (Executed 2014)*
Owner : *Talaat Mostafa Group (TMG)*
Client : *Consulting Engineering Company (CEC)*
Description : *The project is the new sports club located at Madinaty. The sports club total land area is around 320000m² including all sports, recreational & entertainment facilities. The sports club consists of club house, main plaza, commercial building, traffic school, administration building, kids area, youth area, main football yards (2) together with 4 training courts, tennis courts (12), main squash court with additional 10 courts, basketball 2 courts, volley ball 5 courts, general courts (3), Olympic swimming pool & leisure swimming pool.*
Scope of work : *Design Drawings for all Telecommunication Networks.*

Project : **AIR CRAFT MAINTENANCE HANGERS**
Location : *Jeddah, KSA (Under Construction)*
Owner : *Saudi for Engineering & Aviation Industry*
Client : *TAV HLG JV / Pioneer-Leads Engineering*
Description : *The project is the new air craft maintenance hangers located at Jeddah, KSA. The project consists of narrow air craft maintenance hangers, wide air craft maintenance hangers, line maintenance hangers, paint workshop, wash workshop, administration, electrical substations, and fire pump room in addition to ancillary buildings.*
Scope of work : *Preparation of detailed BOQs for all electromechanical Works.*

Project : **INTERNAL SECURITY FORCES CAMP**
Location : *Duhail, Qatar (Under Construction)*
Owner : *Ministry of Interior Security*
Client : *Aljaber Aktor JV / Talent Engineering Company (TEC)*
Description : *The project is the new ISF camp located at Duhail in Qatar. The camp consists of several buildings for training, housing of internal security forces, administration as well as electrical substation, gates and other ancillary buildings.*
Scope of work : *Work Shop Drawings for infra-structure mechanical utilities networks.
Work Shop Drawings for Plumbing & Fire Fighting systems for Wind Tunnel Building & gates 1 to 5.
Coordination Drawings for Wind Tunnel Building & Gates 1 to 5.
HVAC calculations for Wind Tunnel Building & Gates 1 to 5.*

RESIDENTIAL AREAS, BUILDINGS & VILLAS



TOWER VILLAGE – PORT GHALIB – MARSALA ALAM - EGYPT



VILLA 70 – ELGOUNA



VILLA 71 – ELGOUNA



MARVEL CITY COMPOUND



VILLA GE-31 – ELGOUNA



VILLA FD-13 – ELGOUNA

RESIDENTIAL AREAS, BUILDINGS & VILLAS

Project : **TOWER VILLAGE**
Location : Marsa Ghalib City, Marsa Alam, Egypt (Executed 2002)
Owner : EMAK For Touristic Development
Client : Consulting Engineering Company (Consulting Office)
Description : The project is a complex consisting of 8 residential clusters, administration building, commercial building, sports club, 4stars hotel & a large reserved area for future development.

The total connected power is around 5 MVA.

Scope of work : Design of medium voltage infrastructure networks & tender documents.
(Electrical works Budget is around 15 Million EGP)

Project : **MARVEL CITY COMPOUND**
Location : New Cairo, Egypt (Under Construction)
Owner : Al-Ryad For Development
Client : Engineering Company for Integrated Projects (ECIP)
Description : The project is a residential compound consisting from 5 buildings each consists of 3 residential 5 floors apartments' buildings in addition to a club house building with dedicated swimming pool & nice landscaped areas together with electrical substations & fire & water tanks building. The total connected power is around 3 MVA.

Scope of work : Work Shop Drawings for all Electromechanical Works.
(Electromechanical works Budget is around 6 Million EGP)

Project : **FLORENTA CITY COMPOUND**
Location : Moqattam, Cairo, Egypt (Under Construction)
Owner : Abrag MisrFor Development
Client : Conbuild (Main Contractor)
Description : The project is 6 apartment buildings forming phase 1 of the prestigious Florenta residential compound. Each apartment building consists of basement floor dedicated as parking & MEP utilities & 6 floors each consisting of 4 apartments. The residential compound applies green buildings regulations as the first residential compound to apply those measures in Egypt.

Scope of work : Work Shop Drawings for Plumbing Works.
(Electromechanical works Budget is around 1 Million EGP)

Project : **SHURA RESIDENTIAL RESORT**
Location : 6th October City, Egypt (Executed 2006)
Owner : Shura Investment Company
Client : EL-Wadi for Integrated Systems (Electrical Contractor)
Description : The project is a large residential complex consisting of 200 villas of 4 different types with different areas with their related facilities as parking areas, green areas, swimming pools & utilities area.
The total connected power is around 6 MVA.
Scope of work : Design of medium voltage, low voltage & light current infrastructure networks & tender documents.
(Electrical works Budget is around 12 Million EGP)

Project : **RESIDENTAIL BUILDING**
Location : 6th October City, Egypt (Executed 2005)
Owner : Mrs. Nahed Abd EL-Kader
Client : Mrs. Nahed Abd EL-Kader
Description : A small residential building owned by Mrs. Nahed Abd EL-Kader located at the touristic village at 6th October city. It consists of 4 floors as well as a small garden.
The total connected power is around 0.3 MVA.
Scope of work : Design Drawings & Tender Documents for all Electrical Works.

Project : **VILLA FD13&14**
Location : EL-Gouna, Hurghada, Red Sea, Egypt (Under Construction)
Owner : Private Residence.
Client : Orascom Housing & Development Company
Description : A large villa located at EL-Gouna resort at Hurghada. It consists of 2 floors attached to a swimming pool surrounded by a fine landscaped area. The total connected power is around 0.2 MVA.
Scope of work : Design Drawings & Tender Documents for all Electrical Works.

Project : **EL-GOUNA SABINA**
Location : EL-Gouna, Hurghada, Red Sea, Egypt (Under Construction)
Owner : Orascom Housing & Development Company
Client : Orascom Housing & Development Company
Description : Residential building located at EL-Gouna resort at Hurghada. It consists of 3 floors with 21 chalets surrounded by a fine landscaped area. The total connected power is around 0.4 MVA.
Scope of work : Design Drawings & Tender Documents for all Electromechanical Works.

Project : **VILLA 70**
Location : *EL-Gouna, Hurghada, Red Sea, Egypt (Under Construction)*
Owner : *Private Residence.*
Client : *Orascom Housing & Development Company*
Description : *A large villa located at EL-Gouna resort at Hurghada. It consists of only one floor attached to a swimming pool surrounded by a fine landscaped area. The total connected power is around 0.2 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : **VILLA 71**
Location : *EL-Gouna, Hurghada, Red Sea, Egypt (Under Construction)*
Owner : *Private Residence.*
Client : *Orascom Housing & Development Company*
Description : *A large villa located at EL-Gouna resort at Hurghada. It consists of 2 floors attached to a swimming pool surrounded by a fine landscaped area. The total connected power is around 0.2 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : **VILLA GE-31**
Location : *EL-Gouna, Hurghada, Red Sea, Egypt (Under Construction)*
Owner : *Private Residence.*
Client : *Orascom Housing & Development Company*
Description : *A large villa located at EL-Gouna resort at Hurghada. It consists of 2 floors attached to a swimming pool surrounded by a fine landscaped area. The total connected power is around 0.2 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : **VILLA HISHAM MAMISH**
Location : *Patio Compound, New Cairo, Egypt (Under Construction)*
Owner : *Mr. Hisham Mamish*
Client : *Mr. Hisham Mamish*
Description : *A small villa located at Patio new Cairo compound. It consists of ground, first & roof attached to a simple garden overlooking the main swimming pool of the compound. The total connected power is around 0.1 MVA.*
Scope of work : *Design Drawings, Tender Documents & Site Supervision for all Electromechanical Works.*

Project : **VILLA HISHAM MOKHTAR**
Location : *Lake View Compound, New Cairo, Egypt (Under Construction)*
Owner : *Mr. Hisham Mokhtar*
Client : *Mr. Hisham Mokhtar*
Description : *A large villa located at the luxury Lake View compound located at the heart of new Cairo. It consists of 3 floors attached to a swimming pool surrounded by a fine landscaped area. The total connected power is around 0.2 MVA.*
Scope of work : *Design Drawings, Tender Documents & Site Supervision for all Electromechanical Works.*

Project : **VILLA FADEL**
Location : *6th October City, Egypt (Under Construction)*
Owner : *Mr. Ahmed Fadel*
Client : *Mr. Ahmed Fadel*
Description : *A large villa located at 6th October City. It consists of basement, 3 floors & roof attached to a swimming pool surrounded by a fine landscaped area. The total connected power is around 0.2 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : **VILLA 139**
Location : *Palm Hills Compound, 6th October City, Egypt (Under Construction)*
Owner : *Eng. Khaled Besheer*
Client : *CC Designers (Architectural Office)*
Description : *A large villa located at the luxury palm hills compound of villas located at 6th October City. It consists of only one floor attached to a swimming pool surrounded by a fine landscaped area. The total connected power is around 0.2 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : **VILLA B-1-035**
Location : *Lake View Compound, New Cairo, Egypt (Under Construction)*
Owner : *Private Residence.*
Client : *United Company For Touristic & Construction Investments*
Description : *A large villa located at the luxurious lake view compound at new Cairo. It consists of 2 floors attached to a swimming pool surrounded by a fine landscaped area. The total connected power is around 0.2 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : VILLA WAEL
Location : 6th October City, Egypt (Under Construction)
Owner : Private Residence.
Client : Orascom Housing & Development Company
Description : A large villa located at 6th October City. It consists of basement, 2 floors & roof attached to a swimming pool surrounded by a fine landscaped area. The total connected power is around 0.2 MVA.
Scope of work : Design Drawings & Tender Documents for all Electrical Works.

Project : VILLA SAYED HASSAN
Location : Gamieet Ahmed Oraby, EL-Obour City, Egypt (Executed 2003)
Owner : Mr. Sayed Hassan
Client : Connect (Consulting Office)
Description : A large villa owned by Mr. & Mrs. Ahmed Sayed Hassan, located at Gamieet Ahmed Oraby on El-Obour city. It consists of 3 floors attached to a swimming pool, outdoor tennis court & surrounded by a fine landscaped area.
The total connected power is around 0.2 MVA.
Scope of work : Design Drawings & Tender Documents for all Electrical Works.

Project : VILLA AHMED FAHMY
Location : Mansouria, Guiza, Egypt (Executed 2003)
Owner : Mr. Ahmed Fahmy
Client : Eng. Samir EL-Kordy (Architectural Engineer)
Description : A large villa owned by Mr. & Mrs. Ahmed Fahmy located at Mansouria. It consists of 2 floors attached to a large swimming pool & surrounded by a fine landscaped area.
The total connected power is around 0.25 MVA.
Scope of work : Design Drawings & Tender Documents for all Electrical Works.

Project : VILLA MOHAMED AMIN
Location : Alexandria Desert Road, Alexandria, Egypt (Executed 2005)
Owner : Mr. Mohamed Amin
Client : EL-Wadi for Integrated Systems (Electrical Contractor)
Description : A large villa owned by Mr. Mohamed Amin located at Cairo-Alexandria desert road. It consists of 3 floors attached to a large swimming pool & surrounded by a landscaped area.
The total connected power is around 0.5 MVA.
Scope of work : Design Drawings & Tender Documents for all Electrical Works.

Project : **VILLA KAMAL BERAWY**
Location : *Gamieet Ahmed Oraby, EL-Obour City, Egypt (Executed 2003)*
Owner : *Mr. Kamal Berawy*
Client : *Connect (Consulting Office)*
Description : *A small villa owned by Mr. & Mrs. Kamal Berawy located at Gamieet Ahmed Oraby on El-Obour City. It consists of 2 floors attached to a small swimming pool & surrounded by a fine landscaped area. The total connected power is around 0.15 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : **VILLA GAMAL NAGUIB**
Location : *North Coast, Egypt (Executed 2002)*
Owner : *Mr. Gamal Naguib*
Client : *Connect (Consulting Office)*
Description : *A small villa owned by Mr. & Mrs. Gamal Naguib located at North Coast. It consists of 3 floors attached to a small swimming pool & surrounded by a fine landscaped area. The total connected power is around 0.15 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : **VILLA EISSA ELIESH**
Location : *6th October City, Egypt (Executed 2003)*
Owner : *Mr. Eissa Eleish*
Client : *Connect (Consulting Office)*
Description : *A small villa owned by Mr. Eissa Eliesh located at 6th October city. It consists of 2 floors attached to a small landscaped area. The total connected power is around 0.15 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : **VILLA SHAHER**
Location : *Balma AL-Ahram City, Guiza, Egypt (Executed 2004)*
Owner : *Mr. Shaher*
Client : *Hatem Hassan (Consulting Office)*
Description : *A large villa owned by Mr. Shaher located at Balma AL-Ahram. It consists of 3 floors attached to a large swimming pool surrounded with a fine landscaped area. The total connected power is around 0.2 MVA.*
Scope of work : *Design Drawings & Tender Documents for all Electrical Works.*

Project : **VILLA HISHAM EL-BAZ**

Location : *Kattameya Dunes, Kattameya, Egypt (Under Construction)*

Owner : *Mr. Hisham El-Baz*

Client : *Mr. Hisham El-Baz*

Description : *A large villa owned by Mr. Hisham El-Baz located at the luxurious Kattameya Dunes residential complex. It consists of 3 floors together with a basement floor as well as a large swimming pool surrounded with a fine landscaped area. The total connected power is around 0.25 MVA.*

Scope of work : *Design Drawings & Tender Documents for all Electromechanical Works.*

KEY PERSONS

MOHAMED ALY ABD EL-HALIM

TITLE : ELECTRICAL ENGINEER.

BORN : 1974, EGYPTIAN.

**EDUCATION : Bsc. IN ELECTRICAL ENGINEERING.
ELECTRICAL POWER & MACHINES DEPT.
CAIRO UNIVERSITY, CAIRO (1997).**

**: DIPLOMA IN PROJECT MANAGEMENT.
DEPARTMENT OF ENGINEERING.
AMERICAN UNIVERSITY, CAIRO (2002).**

MEMBERSHIP : EGYPTIAN SYNDICATE OF ENGINEERS.

SUMMARY OF CAPABILITIES:

Mr. Mohamed Aly is a Senior Electrical Engineer with around Eighteen years of engineering experience spent in the design of electrical installation inside buildings and infrastructure projects as well as follow-up of construction of some big projects. He was working for **EMDEG** Consultancy Office from 1997 to 2005 & **ANEL** Electrical Contractor (Turkish) from 2005 to 2009 and had acquired both design and management experience.

During working for EMEDG Consultancy Office

Mr. Mohamed Aly responsibilities in design included setting-up design concepts, developing preliminary and detailed design of electrical installations and power distribution networks and preparing technical specifications, bill of quantities and tender and contract documents.

His responsibilities on site covered approval contractors submittals for equipment, materials and shop drawings, review of construction programs, approval of payment certificates, testing and commissioning and final handing over of the projects.

In his position as a senior Electrical Engineer Mr. Mohamed Aly had directed, designed and supervised several projects in different countries in the MIDDLE EAST. These projects had included various types of power generation and distribution related projects as well as electrical installations for industrial, residential, commercial, institutional buildings and complexes.

During working for ANEL Electrical Contractor (Turkish)

Mr. Mohamed Aly was appointed by this Turkish company as Design Manager for the prestigious Cairo Airport Terminal 3 Construction Project. His responsibilities included design review of the contract documents & drawings, issuing RFIs to the consultant & set up of final design concept for electrical works of the project.

His responsibilities covered the preparation of different electrical systems work shop drawings preparation as well as calculation sheets for lighting, loads, voltage drop, short circuit, lightning protection & earthing.

His responsibilities included the coordination between electrical works & other electromechanical works such as LAN, HVAC, plumbing & fire fighting as well as coordination with different architectural item for electrical works such as doors, counters, marble cladding, false ceiling, flooring & roofing.

His responsibilities included getting approval from consultant on all work shop drawings & AS BUILT drawings for the project. Issuing abortive works claims (if any), helping in preparation of claims for additional works to contract.

PROFESSIONAL EXPERIENCE:

2005 TO 2009:

Design Manager in ANEL Electrical Contractor (Turkish)
(Cairo Office)

Responsible for preparation of work shop drawings preparation as well as calculation sheets for lighting, loads, voltage drop, short circuit, lightning protection & earthing; coordination between electrical works & other electromechanical works such as LAN, HVAC, plumbing & fire fighting as well as coordination with different architectural item for electrical works such as doors, counters, marble cladding, false ceiling, flooring & roofing; getting approval from consultant on all work shop drawings & AS BUILT drawings for the project. Issuing abortive works claims (if any), helping in preparation of claims for additional works to contract.

Terminal 3, Cairo International Airport, Cairo, Egypt.

Terminal 3 is the new terminal to be added to existing terminals 1 & 2 of **Cairo Airport** to increase the total passengers visiting Egypt every year from 5 to 11 million passengers. The project is funded by **70%** from **World Bank** & **30%** from the **Egyptian Government** with a total budget of **500 million US dollars**. The project was awarded to the Turkish airport construction company **TAV** through an international bid. The project is around 500000m² with built up area of around 175000 m² consisting of terminal building, concourse, 2 fingers & other ancillary service buildings like power plant, outdoor substations & apron control tower.

The project consists of 13 electrical substations connected on 7 medium voltage loops backed with emergency generating diesel sets. The total connected power of the project is around 60MVA. Complete power management & building management systems shall be installed to manage the operation of all systems inside the airport terminal.

Latest & up to date technology is applied for all systems networks where a complete LAN backbone system is used to which all telecommunication systems are connected as well as Building Automation System. The project comprises the following systems:

- 1- Fire Alarm System.
- 2- Access Control System.
- 3- Closed Circuit TV System.
- 4- Public Announcement System.
- 5- MATV System.
- 6- Flight Information Display System.
- 7- Data & IP Telephony System.
- 8- Master Clock System.
- 9- Integrated Security Management System.
- 10- Parking Management System.
- 11- Building Automation System.
- 12- Power Management System.

The project comprises all apron area design as well as all taxiway & related infrastructure works including the installation of all **Airfield Lighting** together with all its related transformers & CCRs, Stand Identification devices & Visual Docking Guidance Signs.

1997 TO 2005:

Senior Electrical Engineer in EMDEG Consultancy Office (2000 TO 2005)

Junior Electrical Engineer in EMDEG Consultancy Office (1997 TO 2000)
(Cairo Office)

Responsible for setting-up design concepts, developing preliminary and detailed design of electrical installations and power distribution networks and preparing technical specifications, bill of quantities and tender and contract documents for various projects; approval of contractors submittals for equipment, materials and shop drawings, review of construction programs, approval of payment certificates, testing and commissioning and final handing over of the projects.

I. HOTELS, TOURISTIC VILLAGES & RESORTS:

SOMA BAY, Safaga, Red Sea.

Soma Bay is an all year sunshine destination built on a unique 10 million square meter peninsula surrounded by the azure of the red sea, located 45 kilometers south of Hurghada. **Soma Bay** is now developing to accommodate more than 12 luxurious 5 stars hotels, a large golf course with 18 holes, a diving resort attached to a large diving center, a luxurious thalassotherapy center that offers a special personal care program, a large marina that can accommodate up to 70 vessels of different sizes, residential town houses & villas.

Soma Bay has its own 24 MW power station, desalination plant, utility control center, police station & main fire brigade.

HYATT REGENCY SOMA BAY

The project is a 340 guestrooms, 5 stars hotel consisting of the following:

- *Main building (4 floors) including public reception areas, food and beverage Outlets, ballroom, health club & all related back of house services.*
- Two extended guestrooms wing (10 blocks).
- Four independent food & beverage outlets.
- A sweet water pool complex & lagoons with all its related landscape areas.

The total connected power is around 6 MVA.

Scope of work: Design & Site Supervision.

SOMA BAY GOLF CLUB.

The project is 100 guestrooms, 5 stars hotel attached to an 18-hole golf course and consists of 5 separate blocks. The total connected power is around 4 MVA.

Scope of work: Design & Site Supervision.

SOMA BAY CASCADES THALASSOTHERAPY CENTER.

The project is 200 guestrooms, 5 stars hotel attached to a luxurious center for treatment using water & sand designed specially in France. The total connected power is around 2 MVA.

Scope of work: Design & Site Supervision.

SOMA BAY SHERATON BALLROOM.

The project is a ballroom attached to the Sheraton hotel. It consists of a main ballroom divided into two parts junior ballroom with two partitions, two boardrooms, kitchen & all back of house facilities. The total connected power is around 0.5 MVA connected to Sheraton main substation.

Scope of work: Design & Handing Over to Client.

SOMA BAY GOLF ACADEMY.

The project is a small academy for teaching the guests of **Soma Bay** how to play golf. The total connected power is around 0.1 MVA.

Scope of work: Design & Site Supervision.

SOMA BAY MARINA CENTER.

The project is a complex consisting of 32 apartments, 52 shops, bowling center, a large casino for the whole **Soma Bay**, 5 restaurants attached to a marina serving up to 70 yachts of different sizes with all required facilities. The total connected power is around 2 MVA.

Scope of work: Design & Site Supervision.

SOMA BAY REEF VILLAS.

The project is located at **Soma Bay** on the reef side .It consists of 27 luxurious villas directly on the sea side together with small 5 condominiums. The total connected power is around 2 MVA distributed on 2 MV/LV power substations.

Scope of work: Design & Site Supervision.

SOMA BAY DIVE RESORT.

The project is a 5 stars hotel attached to a diving center serving the whole **Soma Bay**, it consists of 200 guest rooms, food & beverage outlets, a large swimming pool and an outdoor stage area with all related facilities. The total connected power is around 2.5 MVA.

Scope of work: Design & Site Supervision.

SOMA BAY GOLF ACADEMY.

The project is a small academy for teaching the guests of **Soma Bay** how to play golf. The total connected power is around 0.1 MVA.

Scope of work: Design & Site Supervision.

SOMA BAY TOWN HOUSE.

The project is a large community consisting of 15 residential buildings together with 15 villas located in the golf area at **Soma Bay** surrounded by a large landscaped area with lagoons & golf courses. The total connected power is around 1.6 MVA.

Scope of work: Design & Site Supervision.

RODAN RESORT - Sharm El-Sheikh, Neama Bay, Red Sea.

The project is a 5 stars touristic village attached to a 5 stars 250 guestrooms hotel, the village consists of 4 palaces, 10 villas & 2 clusters including 30 chalets each consists of 2 floors. The total connected power is around 2 MVA.

Scope of work: Design.

NEAMA BAY HOTEL - Sharm El-Sheikh, Neama Bay, Red Sea.

*The project is 5 stars hotel consisting of 250 guestrooms hotel including all 5 star hotel facilities over looking the whole **Neama Bay**, attached to a luxurious touristic village. The total connected power is around 4 MVA.*

Scope of work: Design.

II. FACTORIES & INDUSTRIAL PLANTS:

AMOUN PHARMACEUTICAL FACTORY, EL-Obour City.

The project is a pharmaceutical plant of around 100,000 m² consisting of the following separated buildings:

- Main factory building.
- Warehouse building.
- 5 Floors administration building with built area equal to 16,000 m².
- Quality control building.
- Lockers building.
- Cafeteria building.
- Engineering building.
- Service and substation building.

The total connected power is around 12 MVA distributed on 2 substations, one for the administration building (4 MVA) while the second one (8 MVA) for the rest of the industrial plant.

Scope of work: Design.

ARABIA CERAMIC FACTORY, Jeddah - KSA.

The project is a major ceramic factory located at Jeddah in the Kingdom Saudi Arabia. The project consists of the main production area comprising 2 ceramic lines, 2 porcelain lines & 4 future lines, substation building & pump room building. The total connected power is around 16 MVA distributed on 2 medium voltage loops with 6 transformers 2000 kVA each and 4 transformers 1000 kVA each.

Scope of work: Design.

PEPSI COLA EGYPT NASR CITY FACTORY RENOVATION, Egypt.

The project is the renovation of the electrical power substation and electrical distribution system of Pepsi Cola Nasr City factory which is the largest Pepsi Cola factory in Egypt. The project consists of the main production area comprising 4 production lines, substation building & compressors area. The total connected power is around 4 MVA.

Scope of work: Design & Site Supervision.

III. Military Facilities:

HAWK MISSILE BASE IMPROVEMENTS, Cairo-Suez Road.

The project is a missile base consisting of several buildings under upgrading & improvement. The total connected power is around 3 MVA.

Scope of work: Material Procurement, Bill of Quantities & Cost Estimate for Electrical, Telecommunication & Mechanical Works.

TRMF HAWK MISSILE BASE IMPROVEMENTS, Wadi Houf.

The project is a missile base consisting of several buildings under upgrading & improvement. The total connected power is around 3 MVA.

Scope of work: Material Procurement, Bill of Quantities & Cost Estimate for Electrical, Telecommunication & Mechanical Works.

GENERATOR WORKSHOP UPGRADE, Cairo, Egypt.

The project is a generator maintenance workshop located at Cairo-Suez road. It consists of 6 different buildings with all related facilities. The total connected power is around 1 MVA.

Scope of work: Material Procurement, Bill of Quantities & Cost Estimate for Electrical, Telecommunication & Mechanical Works.

LAP FACILITY FOR 120mm, HAIKESTEP, Cairo, Egypt.

The project is a load and pack of 120 mm pullet, located at haikestep. It consists of 3 different buildings with all related facilities. The total connected power is around 1 MVA.
Scope of work: Design & Site Supervision.

SUPPORT FACILITIES & UTILITIES FOR 120mm CO-PRODUCTION PROGRAM, Abu Zaabal, Cairo, Egypt.

The project is a store & process monitoring of 120 mm pullet, located at Abu Zaabal. It consists of 8 different buildings with all related facilities. The total connected power is around 1.5 MVA.
Scope of work: Design.

CORROSION CONTROL FACILITY, Cairo.

The project is a corrosion control facility located at Cairo west air base for military plane renovation. It consists of 3 different buildings with all related facilities. The total connected power is around 1.5 MVA.
Scope of work: Material Procurement, Bill of Quantities & Cost Estimate for Electrical, Telecommunication & Mechanical Works.

IV. Miscellaneous Buildings:

SAINT MARY TREE RENOVATION, Matareya, Cairo.

One of the locations visited by the **Holly Family** during their escape to **Egypt** about 2000 years ago. It consists of a small museum, a shop for gifts, the tree itself well for holly water, cafeteria & administration area. The total connected power is around 0.25 MVA.
Scope of work: Design.

THE AMERICAN UNIVERSITY NEW CAMPUS IN CAIRO, Kattameya.

The project is the new American University Campus in Cairo consisting of several educational buildings, administration building, library, sports facilities, utility building & tunnel connecting between all those buildings carrying different services to each building as well as site offices for the consultant & management team and contractor.
Scope of work: Procurement during 1st round of tender for GINZA & TAPE.
Procurement during 2nd round of tender for SIAC & LAING.
Shop Drawing for PMCM site office for SAMCRETE & SAMSUNG.

PSYCHIATRIC HEALTH RESORT, Kattameya, Cairo, Egypt.

The project is psychiatric resort owned by Dr. Ahmed Okasha comprising 100 room as well as 20 rooms for doctors, kitchen, laundry & a large multi purpose room. The total connected power is around 2 MVA.
Scope of work: Site Supervision.

SOKHNA PORT LABORATORY, Sokhna Port, Egypt.

The project is a testing laboratory located at Sokhna port. It consists of 2 floors having 5 laboratories for different materials testing at ground floor & 3 clean rooms for special materials testing at first floor. The total connected power is around 0.5 MVA.
Scope of work: Design, Workshop Drawings & Site Supervision.

V. Residentail Buildings & Villas:

SAAD RESIDENCE, Kattameya Heights, Kattameya, Cairo.

A large villa owned by Mr. & Mrs. Farid Saad located at Kattameya Heights. It consists of 3 floors attached to a heated swimming pool & surrounded by a fine landscaped area. Total connected power is around 0.2 MVA.
Scope of work: Design.

Electrical Engineer (Part Time) in CEC Consulting Company (1999-2002)

(Cairo Office)

Responsible for design of Low Voltage & Telecommunication Systems as well as preparing tender documents.

TOWER VILLAGE, Marsa Ghalib City, Marsa Alam, Red Sea.

The project is a complex consisting of 8 residential clusters, administration building, commercial building, sports club, 4stars hotel & a large reserved area for future development. The total connected power is around 5 MVA.

Scope of work: Design of medium voltage infrastructure networks.

UTILITY CONTROL CENTER, Marsa Ghalib City, Marsa Alam, Red Sea.

The project is the center controlling different utilities serving the whole **MARSA GHALIB** city; also it accommodates some administration offices. The total connected power is around 0.3 MVA.

Scope of work: Design.

AL-KAMIL GAS TURBINE POWER PLANT, Sultanate of Oman.

A large Gas Turbine power plant located at the eastern area of Sultanate of OMAN. It consists of 3 generating turbines with total power output of 270 MW. All turbines are dual fuel types (fuel gas & fuel oil). The project is a BOO basis owned by AL-KAMIL power company. The plant consists of the following buildings:

- *Fuel Tanks.*
- *Gate house.*
- *Fire Pump House.*
- *Desalination Plant.*
- *Workshop & Store.*
- *Control & Administration buildings.*
- *Diesel Generator Building.*
- *Air Compressor Building.*
- *Generating Area for the 3 Gas Turbines.*
- *Future Extension Area.*

Scope of work: Design of all low voltage and ultra low voltage networks for all buildings as well as site networks.

TO WHOM IT MAY CONCERN

This is to witness that Mr. Mohamed Aly Abd EL-Halim joined our firm from the 1st of January, 1998 till the 15th of May, 2005 (Seven years & Five Months). He joined our office as a junior engineer till December 2000, where he was promoted to the post of senior electrical engineer during the period from 2001 till 2005, leading a team of 4 engineers & 4 draftsmen.

During his involvement with our firm, Mr. Mohamed Aly responsibilities in design included setting-up design concepts, developing preliminary and detailed design of electrical installations and power distribution networks and preparing technical specifications, bill of quantities and tender and contract documents.

His responsibilities on site covered approval of contractors submittals for equipment, materials and shop drawings, review of construction programs, approval of payment certificates, testing and commissioning and final handing over of the projects to the client.

In his position as a senior Electrical Engineer Mr. Mohamed Aly had directed, designed and supervised several projects in different countries in the MIDDLE EAST. These projects had included various types of power generation and distribution related projects as well as electrical installations for industrial, residential, commercial, institutional buildings and complexes.

He is capable on using AutoCAD software, Ms Office as well as different calculations programs.

Mr. Mohamed was found serious in his work, capable of working under tough conditions within a team & leading a team and he has left our firm on his own volition to pursue other career interests and we wish him good luck in his future career.

For EMDEG

Mr. Magdy Kamel
Managing Director

Cairo, Egypt,
15/5/2005

Our Ref.

Date 10 June 2009

TO WHOM IT MAY CONCERN

This is to witness that Mr. Mohamed Aly Abd EL-Halim joined our firm from January 1999 till May 2009 (Ten years) as a part time electrical design engineer.

During his involvement with our firm, Mr. Mohamed Aly responsibilities in design included setting-up design concepts, developing preliminary and detailed design of electrical installations and power distribution networks and preparing technical specifications, bill of quantities and tender and contract documents for several projects in different countries in the MIDDLE EAST. These projects had included various types of power generation and distribution related projects as well as electrical installations for industrial, residential, commercial buildings and complexes.

During his involvement with our firm, Mr. Mohamed Aly participated in the design of the following projects:

- 1- Tower Village, Marsa Ghalib City, Marsa Alam, Red Sea.
- 2- Utility Control Center, Marsa Ghalib City, Marsa Alam, Red Sea.
- 3- Al-Kamil Gas Turbine Power Plant, Sultanate of Oman.
- 4- Yemen Main Road Crossings, Sana'a, Yemen.
- 5- CEC Administration & Commercial Building, 6th October City, Egypt.
- 6- P & G Factory Ware House-1, 6th October City, Egypt.
- 7- Etisalat Misr Nasr City Core Center, Cairo, Egypt.
- 8- Etisalat Misr Ramsis Core Center, Cairo, Egypt.
- 9- P & G Factory Packing Building Extension, 6th October City, Egypt.

He is capable on using AutoCAD software, Ms Office as well as various calculations programs.

Mr. Mohamed was found serious in his work, capable of working under tough conditions within a team.

This letter is given to him upon his request with no responsibility to Consulting Engineering Co.

CONSULTING ENGINEERING CO.



TO WHOM IT MAY CONCERN

This is to witness that Mr. Mohamed Aly Abd EL-Halim joined our firm from the 16th of May, 2005 till end of May, 2009 (48 month). He occupied the post of Design Manager for the Electrical Department for Cairo Airport, Terminal 3 construction project.

During his involvement with our firm, Mr. Mohamed was responsible for the electrical department design team which was consisting from 3 senior engineers, 6 junior engineers & 6 draftsmen.

He was responsible for issuing RFIs, design drawings, work shop drawings & calculations for different electrical systems of the project (i.e. lighting, small power, power distribution, BAS, substations, bus ways as well as low current systems), prepare feeder data & panel board schedules for the project, preparing related voltage drop calculations as well as preparing final quantity schedules for different systems items (i.e. lighting fixtures, cable trays, switches, load break switches & accessories.....etc.).

He participated in the preparation of coordination composite drawings for electromechanical works together with respective IT & mechanical engineers, coordination with other disciplines (architectural, civil, mechanical & IT engineers) prior to shop drawing official submission.

He is capable on using AutoCAD software, Ms Office as well as different calculations programs.

Mr. Mohamed was found serious in his work, capable of working under tough conditions leading a team from beginning of the project till its successful end. We wish him good luck in his future career.

For ANEL Cairo

Mr. Ersin Sayan
Managing Director


ANEL
Elektrik Proje Taahhüt ve Tic. Ltd. Şti.

Cairo, Egypt,
31/05/2009



CONSTRUCTION OF TERMINAL 3
CAIRO INTERNATIONAL AIRPORT
(TB3/03)

06th June 2009

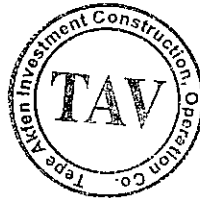
To Whom It May Concern

This is to certify that **Mr. Mohamed Ali Abd El Halim** is employed by *TAV Tepe Akfen Investment Construction and Operations Co* - for the Construction of Cairo International Airport (Terminal 3) as **Electrical Department Design Manager** from 16th of May 2005 until 31st May of 2009.

This certificate was given to him upon his request without any responsibility towards the company.

A handwritten signature in black ink, appearing to read 'H. Candan'.

Hurol Emre Candan
Finance & Administration Manager



AHMED MOHAMED SAYED ELBALAL

TITLE : MECHANICAL ENGINEER.

BORN : 1972, EGYPTIAN.

EDUCATION : Bsc. IN MECHANICAL ENGINEERING,
POWER DEPARTMENT, CAIRO UNIVERSITY,
CAIRO (1995).

: DIPLOMA IN PROJECT MANAGEMENT,
DEPARTMENT OF ENGINEERING,
AMERICAN UNIVERSITY, CAIRO (2002).

: SEISMIC AND VIBRATION ISOLATION
CONTROL, MASON INDUSTRIES FACILITIES,
LONG ISLAND, USA.

: CO-GENERATION TECHNOLOGY TECHNICAL
COURSE, UNIVERSITY OF WISCONSIN,
MADISON, USA.

MEMBERSHIP : EGYPTIAN SYNDICATE OF ENGINEERS.

SUMMARY OF CAPABILITIES:

Mr. Ahmed EL-Balal is a Senior Mechanical Engineer with around Nineteen years of engineering experience spent in the design of mechanical installations inside buildings and infrastructure projects as well as follow-up of construction of some big projects. He was working for **SHAKER** Consultancy Office from 1995 to 2005 & **DAR AL-HANDASA** Consultancy Office from 2005 to 2013 and had acquired both design and management experience.

During working for SHAKER Consultancy Office

Mr. Ahmed EL-Balal responsibilities in design included setting-up design concepts, developing preliminary and detailed design of HVAC installations and chilled water networks and preparing technical specifications, bill of quantities and tender and contract documents as well as preparation of mechanical calculations.

His responsibilities on site covered approval contractors submittals for equipment, materials and shop drawings, review of construction programs, approval of payment certificates, testing and commissioning and final handing over of the projects.

In his position as a Senior Mechanical Engineer Mr. Ahmed EL-Balal had directed, designed and supervised several projects in different countries in the MIDDLE EAST. These projects had included various types of power generation and distribution related projects as well as electrical installations for industrial, residential, commercial, institutional buildings and complexes.

During working for DAR AL-HANDASA Consultancy Office

Mr. Ahmed EL-Balal was appointed by Dar AL-Handasa as a Group Leader for the mechanical team. His responsibilities included the initial assessment and subsequent design of various commercial, residential and industrial projects. Preparation of design philosophy & design reports for projects.

His responsibilities covered the follow up of the preparation of different mechanical systems design drawings as well as mechanical calculation sheets prepared by junior staff.

His responsibilities included the coordination between mechanical works & other electromechanical works such as Electrical, LAN & Light Current Systems as well as coordination with different architectural items in relation to mechanical works such as false ceiling, wall & slab openings.

His responsibilities included approval of material submittals & shop drawings submitted by contractors for different projects.

PROFESSIONAL EXPERIENCE:

2005 TO 2013:

Group Leader in Mechanical Department at Dar AL-Handasa Consultancy Office

Responsible for preparation of different mechanical systems design drawings, mechanical calculation sheets as well as coordination between mechanical works & other electromechanical works such as Electrical, LAN & Light Current Systems as well as coordination with different architectural items in relation to mechanical works such as false ceiling, wall & slab openings. Approval of material submittals & shop drawings submitted by contractors for different projects.

Technical Review and Site Management for the Ministry of Interior (KSA) projects

Sept. 2006 – Dec. 2008 Group Leader

The project is several sites management for the ministry of interior in Saudi Arabia with a total budget 1 Billion US dollar with 200 million dollar in the mechanical scope (HVAC, Plumbing, Fire Protection, Kitchen & Laundry).

The project was assigned to Saudi Bin Ladin group (SBG) and designed by Saudi Diyar. The scope was technical review of all the design documents, material submittals, and work shop drawings as well as sites follow up for technical issues, leading over 12 mechanical engineers on both sites and core team.

Development of King Abdul – Aziz Endowment Project-Jabul El Qulaa Project

May 2005 - Sept. 2006 Design Team leader

The project is considered the largest concrete building worldwide, which consist of a large podium area and 7 towers, where the hotel tower shall be the tallest building in the world by end of construction.

1995 TO 2005:

Senior Mechanical Engineer in SHAKER Consultancy Office (1999 TO 2005)

**Junior Mechanical Engineer in SHAKER Consultancy Office (1995 TO 1999)
(Cairo Office)**

Responsible for setting-up design concepts, developing preliminary and detailed design of mechanical installations and networks as well as preparing technical specifications, bill of quantities and tender and contract documents for various projects; approval of contractors submittals for equipment, materials and shop drawings, review of construction programs, approval of payment certificates, testing and commissioning and final handing over of the projects.

I. HOTELS, TOURISTIC VILLAGES & RESORTS:

GRAND HYATT – NILE TOWER (CAIRO, EGYPT)

The project is one of the biggest & most prestigious hotels located on the Nile river side with 870 guestrooms, large lobby area, banquet halls & restaurants, kitchen, laundry & utilities area as well as 4 basement floors used as a car parking. Capacity is around 2400 T.R.

Scope of work: Design Drawings & Tender Documents as well as Contractor Material Submittals & shop Drawings Approval.

ROYAL GALLERIA at GRAND HYATT (CAIRO, EGYPT)

The project is a commercial complex attached to the Grand Hyatt Hotel. It comprises retail areas, food courts, 1000 seat theatre & 7 floors underground car parking as well as the kitchens & utilities area of the project. Capacity is around 700 T.R.

Scope of work: Design Drawings & Tender Documents as well as Contractor Material Submittals & shop Drawings Approval.

INTERCONTENENTAL CITY STARS (CAIRO, EGYPT)

The project is one of the biggest & most prestigious hotels located at Heliopolis area near by the Cairo airport with 700 guestrooms, large lobby area, banquet halls & restaurants, ball rooms, health club, kitchen, laundry & utilities area as well as 4 basement floors used as a car parking.

Scope of work: Design Drawings & Tender Documents.

II. FACTORIES & INDUSTRIAL PLANTS:

IGI- INTERAGRO DIARY PLANT (NUBARIA, EGYPT) (Design Stage)

The project is a huge dairy plant complex for milk, yoghurt & juice production. The project consists of the main production area, utilities area as well as administration building. Work included HVAC, steam lines, compressed air, industrial chilled water & cooling water lines.

Scope of work: Design Drawings & Tender Documents.

IGI- INTERAGRO DIARY PLANT (NUBARIA, EGYPT) (Construction Stage)

The project is a huge dairy plant complex for milk, yoghurt & juice production. The project consists of the main production area, utilities area as well as administration building. After completion of the design stage; the contract was awarded to Ginza Construction Corporation. Our scope was preparing all the piping and ductwork detailing, the coordination with all other disciplines and obtains the approval from the operation consultant.

Scope of work: Work Shop Drawings for all mechanical systems.

III. EDUCATIONAL BUILDINGS:

THE AMERICAN UNIVERSITY NEW CAMPUS (CAIRO, EGYPT)

The project is the new American University Campus in Cairo consisting of several educational buildings, administration building, library, sports facilities, utility building & tunnel connecting between all those buildings carrying different services to each building as well as site offices for the consultant & management team and contractor. Total area is around 180000m².

Scope of work: Preparation of all technical reports, design drawings, specifications and tender documents as well as all the power generation and the utilization of the co-generation technologies in the utility building.

THE NILE TECHNOLOGY UNIVERSITY (SMART VILLAGE, EGYPT)

The project is the new Technology University located at the smart village & owned by the ministry of communications. The campus consists of several educational buildings, laboratories, class rooms, administration building, library, conference center & conservation center as well as utility building. Total area is around 250000m².

Scope of work: Design Drawings & Tender Documents.

ELECTRONIC RESEARCH INSTITUTE (CAIRO, EGYPT)

The project is the new building for the technical electronic research institute located at Cairo. The building consists of offices, laboratories, class rooms, clean rooms, meeting rooms, 1000 seat conference center & special radiology rooms as well as utility building. Total area is around 65000m².

Scope of work: Design Drawings & Tender Documents.

IV. MISCELLANEOUS BUILDINGS:

EXTENSION OF EGYPTIAN RADIO & TV BUILDING (CAIRO, EGYPT)

The project is the new extension building added to the Egyptian radio & television building located at the Nile river side. The new building consists of offices, studios, library, conference & meeting rooms as well as utilities area for the project.

Scope of work: Contractors Work Shop Drawings & Material Submittals Approval.

AIR MALL at CAIRO AIRPORT (CAIRO, EGYPT)

The project is the new commercial complex built within the premises of Cairo international airport. The mall consists of retail areas, food courts, lounges, car parking area as well as the kitchens & utilities area of the project. Capacity is around 500 T.R.

Scope of work: Design Drawings & Tender Documents.

DREAM LAND POWER CENTER COMPLEX (CAIRO, EGYPT)

The project is the new commercial complex built within the premises of dream land city located at 6th of October city. The complex consists of retail areas, food courts, lounges, car parking area as well as the kitchens & utilities area of the project. Total area is around 65000m².

Scope of work: Design Drawings & Tender Documents.

GRAND MUSEUM OF EGYPT (CAIRO, EGYPT)

The project is the new grand museum built by the ministry of culture at the pyramids area to move all the monuments from the Egyptian museum to the new building as well as adding a lot of old pharonic monuments to be exhibited to museum visitors. The project consists of the main museum halls, exhibition areas, conference center, conservation center, gifts retails areas, food & beverage outlets, large car parking area as well as the utilities area of the project.

Scope of work: Design Drawings & Tender Documents.

NEW ISLAMIC MUSEUM (CAIRO, EGYPT)

The project is the new Islamic museum by renovating an existing Islamic building with around 200 years age. The new museum is built by the ministry of culture to show & exhibit all the Islamic features found in Egypt. The project consists of the main museum halls, exhibition areas, gifts retails areas, food & beverage outlets as well as the utilities area of the project.

Scope of work: Design Drawings & Tender Documents.

Dr. EHAB HELMY ROZEAK

TITLE : WATER & WASTE WATER EXPERT.

BORN : 1973, EGYPTIAN.

**EDUCATION : Bsc. IN CIVIL ENGINEERING,
CAIRO UNIVERSITY, CAIRO (1996).**

**: Msc. IN SANITARY & ENVIRONMENTAL
ENGINEERING, CAIRO UNIVERSITY,
CAIRO (1999).**

**: PHD. IN SANITARY & ENVIRONMENTAL
ENGINEERING, CAIRO UNIVERSITY,
CAIRO (2004).**

**: ADVANCED COURSE IN DESIGN &
CONSTRUCTION OF PIPE NETWORKS,
CAIRO UNIVERSITY.**

**: ADVANCED COURSE IN DESIGN &
CONSTRUCTION OF WASTE WATER
TREATMENT PLANTS, CAIRO
UNIVERSITY.**

**: ADVANCED COURSE IN GIS, DAR EL-
HANDASA.**

**: EFFECTIVE PROJECT MANAGEMENT
COURSE, DAR EL-HANDASA.**

MEMBERSHIP : EGYPTIAN SYNDICATE OF ENGINEERS.

**: EGYPTIAN INSTITUTION OF SANITARY &
ENVIRONMENTAL ENGINEERING.**

SUMMARY OF CAPABILITIES:

Dr. Ehab Rozeak is an expert in the field of water & waste water treatment with around Nineteen years of engineering experience spent in the design of water & waste water treatment plants & networks in large infrastructure projects as well as follow-up of construction of some big projects.

He worked for Cairo University as Demonstrator in Sanitary & Environmental Department (1996-1999), Teaching Assistant (1999-2004) & Assistant Professor (2004-till now).

He worked as water & waste water expert for **EGEC** Consultancy Office (2005-2006), **MISR CONSULT** (1998-2006) as well as **DAR AL-HANDASA** Consultancy Office (2006-2008).

During working for CAIRO UNIVERSITY

Dr. Ehab Rozeak had evolved his academic career with Cairo University, by being a Demonstrator in Sanitary & Environmental Department till receiving his master degree when he became a Teaching Assistant till receiving his PHD degree when he became an Assistant Professor where all his studies were in the field of sanitary & environmental engineering. (2004-till now).

During working for EGEC Consultancy Office

During working for MISR CONSULT Consultancy Office

During working for DAR AL-HANDASA Consultancy Office

Mr. Ehab Rozeak worked as water & waste water expert for these large well reputed consultancy offices in Egypt. His responsibilities included the initial assessment and subsequent design of various industrial projects, large infrastructure projects, touristic villages, water treatment & waste water treatment plants. Preparation of design philosophy & design reports for such projects.

His responsibilities covered the follow up of the preparation of water networks, irrigation networks, water purification plants, water & waste water treatment plants design drawings as well as hydraulic calculation sheets, specifications & tender documents.

His responsibilities on site covered approval contractors submittals for equipment, materials and shop drawings, review of construction programs, approval of payment certificates, testing and commissioning and final handing over of the projects.

PROFESSIONAL EXPERIENCE:

WATER PURIFICATION PLANTS

1. Three Ground Water Purification Plants in EL-Wady EL-Gaded.
2. Kom Adrega and EL-Sheikh Abed Water Plants in Bani Suif.
3. Awad Island, Hessa Island and El-Sheikh Fadl Water Plant in Aswan.

IRRIGATION NETWORKS

1. The Irrigation Project for 600 Feddan with Treated Waste Water, Qenna.
2. The Irrigation Project for 300 Feddan with Treated Waste Water, EL-Farafra.

WATER NETWORKS

1. Water Carrier of 15 May City.
2. Water Networks of Magaga in EL- Menia.
3. Water Networks of EL-Edwa in EL- Menia.
4. Water Networks of Awad Island in Aswan.
5. Water Networks of Hessa Island in Aswan.
6. Water Networks of EL-Sheikh Fadl in Aswan.
7. Water Networks of Gabal Khandama in Sudia.
8. Water Networks of Shamal EL-Haram region in Giza.
9. Water Networks of Madenaty Development in Cairo.
10. The evaluation of Water Networks of Giza Governrate.
11. The evaluation of Water Networks of Cairo Governrate.
12. Water Networks of EL-Qantara Sharq city in Ismailya.
13. Water Networks of Knowledge Economic City in Saudi Arabia.
14. Water Networks of the Resort Cove of King Abdullah Economic City in Sudia.
15. Water Networks of the Red Sea Village of King Abdullah Economic City in Sudia.
16. Water Networks of the Industrial Park of King Abdullah Economic City in Sudia.
17. Water Networks of the industrial zone of EL-Qantara Sharq city in Ismailya.

WASTEWATER TREATMENT PLANTS

1. Edfa Waste Water Treatment Plant in Sohag.
2. EL-Herafeen Waste Water Treatment Plant in Cairo.
3. Sanaded Waste Water Treatment Plant in Gharbia.
4. EL-Sanafeen Waste Water Treatment Plant in Gharbia.
5. Kasr EL-Bassel Waste Water Treatment Plant in Fayom.
6. Abo Dayhoom Waste Water Treatment Plant in Fayom.

WASTE WATER PROJECTS

1. Waste Water Project of Qoos in Qenna.
2. Waste Water Project of Helwan in Cairo.
3. Waste Water Project of Sanaded in Gharbia.
4. Waste Water Project of 8 villages in Fayom.
5. Waste Water Project of Siwa in Marsa Matroh.
6. Waste Water Project of Meet Gaber in Gharbia.
7. Waste Water Project of EL-Sanafeen in Gharbia.
8. Waste Water Project of Zahran EL-Ganoub in Sudia.
9. Waste Water Project of Ezbet EL-Wesamy in Cairo.
10. Waste Water Project of Gabal Khandama in Sudia.
11. Waste Water Project of Moot in EL-Wady EL-Geded .
12. Waste Water Project of Sedy Gazy in Kafr EL-Dwar.
13. Waste Water Project of Knowledge Economic City in Saudi Arabia.
14. Waste Water Project of Kharsit and Kafer Essam in Gharbia.
15. Waste Water Project of Resort Cove of King Abdullah Economic City in Sudia.
16. Waste Water Project of Red Sea Village of King Abdullah Economic City in Sudia.
17. Waste Water Project of Industrial Park of King Abdullah Economic City in Sudia.
18. Waste Water Project of Edfa, EL-Sheikh Makram , EL-Salaa and Tunis in Sohag.
19. Waste Water Project of Gohaina, El-Maraga, El-Monshaa & Awlad Hamza in Sohag.
20. Waste Water Project of the Industrial zone of EL-Qantara sharq city in Ismailya.
21. Waste Water Project of Antonyados and EL-Sanahra in Kafr EL-Dwar.

INFRA STRUCTURES OF TOURISTIC VILLAGES AND INDUSTRIAL AREAS

1. Water, Waste Water, Irrigation Networks & Treatment plant of Taba Golden Coast, Taba, Egypt.
2. Water, Waste Water, Irrigation Networks & Treatment plant of Ras Matarma, Ras Sidr, Egypt.
3. Water, Waste Water & Irrigation Networks of Floresta Gardens, The Pearl, Qatar.
4. Water, Waste Water & Irrigation Networks of the CPC industrial area in 6th of October City, Egypt.
5. Water, Waste Water & Irrigation Networks of Al Tajamoat industrial area in 10th of Ramadan City, Egypt.
6. Water, Waste Water, Irrigation Networks & Treatment plant of Burj EL-Behar Complex, Tripoli, Lybia.
7. Water, Waste Water & Irrigation Networks of Four new Apartment Buildings in Talatona, Angola.
8. Water, Waste Water & Irrigation Networks of Early Childhood Development Center, Dubai.

INDUSTRUIAL WASTE WATER

1. Treatment of the Fertilizer Factory's Waste Water in EL-Salam City.
2. Treatment the Industrial Waste Water of Petro Gas factories in Mostorod, Suez.
3. Treatment of the Central Workshop's Waste Water of Mokhtar Ibrahem Company in Bahteem.

INFRASTRUCTURS REPORTS AND PLANING

1. Master plan for water and waste water systems and solid waste management for the western Coast of Port Said, Egypt.
2. Master plan for water and waste water systems and solid waste management for EL-Warraq City, Giza, Egypt.
3. Master plan for water and waste water systems and solid waste management for Oseem City, Giza, Egypt.
4. Master plan for water and waste water systems and solid waste management for Mashtool EL-Sooq, Sharqia, Egypt.
5. Master plan for water and waste water systems and solid waste management for Meniet El-Nasr, Dakahlia, Egypt.
6. Master plan for water and waste water systems and solid waste management for Desoq, Kafr El-Shiekh, Egypt.
7. Master plan for water and waste water systems and solid waste management for Marsa Alam, Egypt.
8. Master plan for water and wastewater systems and solid waste management for Gamassa, Dakahlia, Egypt.
9. Master plan for water and waste water system and solid waste management for 30 villages in Giza, Egypt.
10. Master plan for water and waste water system and solid waste management for 10 villages in Gharbia, Egypt.

EXPERIENCE CERTIFICATES



TO WHOM IT MAY CONCERN

This is to witness that Electro Mechanical Engineering Technical Office (EMETO), Mohamed Aly & Partners was awarded the electromechanical sub consultancy services for several projects from our firm starting from May 2008 up till now.

During this involvement with our firm, EMETO responsibilities in design included setting-up design concepts, developing preliminary and detailed design of electrical installations and power distribution networks and preparing technical specifications, bill of quantities and tender and contract documents for several projects specially related to the health care facilities sector over all Egypt.

During this involvement with our firm, EMETO participated in the design of the following projects:

- 1- Helwan Public Hospital, Helwan, Egypt.
- 2- Helwan Fever Hospital, Helwan, Egypt.
- 3- Helwan Ministry of Health Administration Building, Helwan, Egypt.
- 4- Helwan Psychiatric Hospital Renovation, Helwan, Egypt.
- 5- Egyptian Ambulance Organization Building, Guiza, Egypt.
- 6- Egyptian Ambulance Training Center, Guiza, Egypt.
- 7- Luxor Egyptian Ambulance Center, Luxor, Egypt.
- 8- Suez Egyptian Ambulance Center, Suez, Egypt.
- 9- Beer EL-Abd Public Hospital, Sainai, Egypt.
- 10- Yassin Abd EL-Ghaffar Medical & Research Center for Liver Diseases.
- 11- EL-Zera'yeen Hospital Renovation, Dokki, Guiza, Egypt.

EMETO was found capable of issuing the required design drawings, technical specifications, bill of quantities and tender and contract documents during project working period ending up with successful satisfactory performance.

This Certificate was given to EMETO up on their own request without any liability on our company.

CIVIL Consulting Office

Dr. M. Essam EL-Awady
Managing Director

Cairo, Egypt,
30/09/2010

TO WHOM IT MAY CONCERN

This is to witness that Electro Mechanical Engineering Technical Office (EMETO), Mohamed Aly & Partners was awarded the electrical sub consultancy services for several projects from our firm starting from January 2007 till now.

During this involvement with our firm, EMETO responsibilities in design included setting-up design concepts, developing preliminary and detailed design of electrical installations and power distribution networks and preparing technical specifications, bill of quantities and tender and contract documents for several projects in different countries in the MIDDLE EAST. These projects had included various types of power generation and distribution related projects as well as electrical installations for industrial, residential, commercial buildings and complexes.

During this involvement with our firm, EMETO participated in the design of the following projects:

- 1- Mobifactory, 6th October City, Egypt.
- 2- AL-Barak Hotel, Dammam, Kingdom Saudi Arabia.
- 3- Meuble EL-Charq Factory, Badr City, Egypt.
- 4- EL-Tawheed Factory, Borg EL-Arab, Egypt.
- 5- Vito Pharma Factory, Borg EL-Arab, Egypt.

EMETO was found capable of issuing the required design drawings, technical specifications, bill of quantities and tender and contract documents during project working period ending up with successful satisfactory performance.

This Certificate was given to EMETO up on their own request without any liability on our company.

MAS Consulting Office

M.A. Salem

Mr. Mohamed Abd EL-Wahab Salem
Managing Director

Cairo, Egypt,
30/09/2010

TO WHOM IT MAY CONCERN

This is to witness that Electro Mechanical Engineering Technical Office (EMETO), Mohamed Aly & Partners was awarded the electromechanical sub consultancy services for several projects from our firm starting from May 2008 up till now.

During this involvement with our firm, EMETO responsibilities in design included setting-up design concepts, developing preliminary and detailed design of electrical installations and power distribution networks and preparing technical specifications, bill of quantities and tender and contract documents for several projects specially related to the health care facilities sector over all Egypt.

During this involvement with our firm, EMETO participated in the design of the following projects:

- 1- Naser Public Hospital Renovation, Shoubra El-Kheima, Qalioubia, Egypt.
- 2- Zefta Public Hospital Renovation, Zefta, Gharbeya, Egypt.
- 3- Ain Shams Public Hospital Renovation, Ain Shams, Cairo, Egypt.
- 4- Mansoura Public Hospital Renovation, Daqahleya, Egypt.
- 5- Moqataa Public Hospital Renovation, Daqahleya, Egypt.
- 6- Faqoos Public Hospital Renovation, Sharqeya, Egypt.
- 7- Faqoos Fever Public Hospital Renovation, Sharqeya, Egypt.
- 8- Kharga Public Hospital Renovation, Kharga, Egypt.
- 9- Arish Public Hospital Renovation, Sainai, Egypt.
- 10- Wady El-Natroun Liver Diseases Charity Hospital.
- 11- Dar El-Mona Hospital Renovation, 6th October City, Egypt.

EMETO was found capable of issuing the required design drawings, technical specifications, bill of quantities and tender and contract documents during project working period ending up with successful satisfactory performance.

This Certificate was given to EMETO up on their own request without any liability on our company.

CIVIL Consulting Office

Dr. M. Essam EL-Awady
Managing Director



Cairo, Egypt,
31/01/2014



Talent Engineering Company

Multiple Discipline Engineering Services

Ref. : TEC/RL/CER.0092

Date : 3rd of February 2014

To whom it may concern

This is to witness that Electro Mechanical Engineering Technical Office (**EMETO**), Mohamed Aly & Partners was awarded the electromechanical sub consultancy services for several projects from our firm starting from May 2008 up till now.

During this involvement with our firm, EMETO responsibilities in design included setting-up design concepts, developing preliminary and detailed design of electrical installations and power distribution networks and preparing technical specifications, bill of quantities and tender and contract documents as well as work shop drawings for several projects inside & outside Egypt.

During this involvement with our firm, EMETO participated in the design of the following projects:-

- 1- **Abu Dhabi Civil Defence** Training Academy, Abu Dhabi, UAE.
- 2- **Awassa Hotel Development**, Awassa, Ethiopia.
- 3- **Kidzania, Cairo Festival City**, Cairo, Egypt.
- 4- **Park A, Cairo Festival City**, Cairo, Egypt.
- 5- **Park B, Cairo Festival City**, Cairo, Egypt.
- 6- **Hilton Gardens Inn**, Doha, Qatar.
- 7- **African Union Grand Hotel**, Addis Ababa, Ethiopia.
- 8- **Epic of Joint Forces, Government & Coast Guard Telecom Buildings**, Ras Laffan Industrial City, Qatar.

EMETO was found capable of issuing the required design drawings, technical specifications, bill of quantities and tender and contract documents during project working period ending up with successful satisfactory performance.

This Certificate was given to EMETO up on their own request without any liability on our company.

Ahmed A. Fattah Saleh
COO



1, Abdel Hameed Lotfy St., 8th Zone, Nasr City, Cairo, Egypt

Tel. : +2 227 34 598

: +2 227 17 419

Fax : +2 228 78 171

web-site : www.talenteg.com

TO WHOM IT MAY CONCERN

This is to witness that Electro Mechanical Engineering Technical Office (EMETO), Mohamed Aly & Partners was awarded the electromechanical sub consultancy services for several projects from our firm starting from May 2012 up till now.

During this involvement with our firm, EMETO responsibilities in design included setting-up design concepts, developing preliminary and detailed design of electrical installations and power distribution networks and preparing technical specifications, bill of quantities and tender and contract documents as well as work shop drawings for several projects inside Egypt.

During this involvement with our firm, EMETO participated in the design & shop drawings preparation for the following projects:

- 1- Juhayna Distribution Center, Assiut, Egypt.
- 2- Juhayna Ammonia Station, Assiut, Egypt.
- 3- Japan Food Solutions Factory, 6th October City, Egypt.
- 4- Polaris Administration Building, 6th October City, Egypt.
- 5- Marvel City Mall, New Cairo, Egypt.
- 6- New Hope Factory, Sadat City, Egypt.
- 7- Ever Grow Factory, Sadat City, Egypt.
- 8- Zamil Steel Factory, Sadat City, Egypt.
- 9- Beni Suef Religious Complex, Beni Suef, Egypt.

EMETO was found capable of issuing the required design drawings, technical specifications, bill of quantities and tender and contract documents during project working period ending up with successful satisfactory performance.

This Certificate was given to EMETO up on their own request without any liability on our company.

Faithfully Yours,
Eng. Abdullah Abd El-Slam

E.M. member of board

الشركة الهندسية للأعمال المتكاملة

ECIP

قطاع الأعمال الكهروميكانيكية



TO WHOM IT MAY CONCERN

This is to witness that Electro Mechanical Engineering Technical Office (EMETO), Mohamed Aly & Partners was awarded the electromechanical sub consultancy services or shop drawings preparation for several projects from our firm starting from May 2008 up till now.

During this involvement with our firm, EMETO responsibilities in design when included was setting-up design concepts, developing preliminary and detailed design of electrical installations and power distribution networks and preparing technical specifications, bill of quantities and tender and contract documents.

During this involvement with our firm, EMETO participated in the design or shop drawings preparation in the following projects:

- 1- Halliburton Katameya Site, New Cairo, Egypt.
- 2- Zamalek Residence Parking, Cairo, Egypt.
- 3- The Polyom Office Building, New Cairo, Egypt.
- 4- Deutsche Bank AG, New Cairo, Egypt.

EMETO was found capable of undertaking their responsibilities ending up with successful & satisfactory performance.

This Certificate was given to EMETO up on their own request without any liability on our company.

BARCO MISR FOR CONSTRUCTION WORKS

Ashraf Naguib
Managing Director

Cairo, Egypt,
31/01/2014