



COMPANY PROFILE

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Introduction

CEC is a dynamic consulting organization that is poised to capture substantial market share in one of the fastest growing service industries in the region, Electro-Mechanical building services.

CEC was established to provide consulting services for the design; technical assistance, site supervision, and project management of Electro-Mechanical systems and facilities that assure client requirements are accurately interpreted into functional, economical, and aesthetically pleasing projects.

CEC enables you to achieve your project goals - in a broad range of market sectors including mixed-use complexes, hotels, residential towers, infrastructure utilities, airports, hospitals, recreational, tourist, educational buildings, industrial and storage facilities, oil & gas facilities and water/ waste water treatment plants.

CEC relies on the proven skills of its qualified engineers who, over the past years of consultancy services expertise to the business, lead the company as it establishes itself as a high quality consultant firm.

CEC has design flair, technical expertise, but most of all has both the desire and commitment to ensure that associated teams to provide clients with the best possible service and total solution of the Electro-Mechanical needs.

CEC by working closely with the client will develop each project from initial concept through design and site management to final commissioning, testing, balancing, and adjusting of systems and maintenance. Attention to details, technical excellence and a total quality approach are taken with us wherever we go, to whatever type of building.

CEC staff has significant experience in design and supervision of Electro-Mechanical services for new and renovated facilities throughout Egypt and the Middle East, many of which have set strict standards for the consultants to adopt. We have completed numerous projects as the enclosed listing indicates. Our projects span every aspect of the HVAC, Plumbing, Fire Fighting, Electrical, Low Current and special systems services from private to governmental.

CEC in step with technological innovations, the staff members are supported by computerized design and drawing facilities, software engineering packages and CAD systems which permit rapid evaluation of potential solutions, immediate modifications and outstanding graphic document. The firm is supported as well by an updated library of standards, design manuals and product catalogues which allow the staff to perform Comparative, Energy Modeling and Analysis, Assessments of Alternative Solutions and Optimization Techniques.

CEC will continue to build on its reputation for quality performance and delivery to meet the challenge and opportunities of the future.

Services

As specialists in Electro-Mechanical systems and their design, CEC effectively plans and designs solutions that fulfill project requirements while minimizing operational costs. The firm vast experience and diverse capabilities in this field assures each project is properly planned when completed.



CEC Electro-Mechanical services embody client requirements, advanced technology and environmentally sustainable design.

CEC serves the global markets of the MEP activities as follows:

HVAC

- Comfort Heating and Cooling
- Refrigeration.
- Building Management System
- Kitchen And Laundry Ventilation
- Clean Rooms Application
- Industrial Ventilation



Electrical

- MV/LV Electrical Substations and Networks
- Standby diesel generator sets.
- Normal & Emergency Power Supply and Distribution Networks
- Interior & Exterior Lighting Installations
- Power Outlets and Wiring Accessories
- Earthing and lightning protection systems



Low Current

- Fire Detection and Alarm System
- Telecommunication System
- Public Address and Sound system
- Security systems including CCTV, access control systems
- MATV System
- Intercom System
- Parking control system
- Master Clock System



Plumbing

- Drainage System
- Water Supply
- LPG System
- Fuel System
- Compressed Air and Vacuum
- Medical gases



Fire Fighting

- Fire Fighting Network
- Standpipes
- Sprinklers
- Fire Extinguishers
- Clean Agent Systems
- Special Fire Systems For Extra Hazardous Areas



Infrastructure

- MV/LV Electrical Substations
- Power distribution networks
- Roadway and Area Lighting
- Communication Networks
- Water Supply Networks
- Chilled Water Networks
- Fire Fighting Networks
- Irrigation Networks
- Natural gas network,



Special Systems

- Vertical Transportation Systems
- Swimming Pools
- Central Laundries
- Central Kitchens
- Sewage and Water Treatment Plants
- Desalination Plants
- Water Pumping Stations
- Sewage Pumping Stations
- Workshops Layouts and Equipment.
- Special Airport Systems.
- Vehicle production lines
- Vehicle service centers design and management
- Energy management systems



Scope of Services

The Electro-Mechanical Services offered by CEC are identified as follows:

- Feasibility studies and Systems selection.
- Preliminary and concept design
- Schematic and detailed design and documentation
- Specification, Bill of Quantities and scheduling
- Construction phase services
- Budget estimation
- Post construction evaluation
- Expert witness services
- Design review and Value Engineering
- Testing, adjusting and balancing of MEP works
- Equipment and systems start up and commissioning
- Shop and as-built drawings.



Deliverables

CEC provides the following documents as part of the design and project management process for various types of projects:

- Design analysis reports, drawings and calculation sheets.
- Tender drawings, bills of quantities, specifications, contract conditions and tender procedures plan.
- Tender analysis (Technical analysis, financial analysis and recommendations).





KEY STAFF

Mr. BADAWI SUMMARY OF CAPABILITIES:

Mr. Badawi is a Mechanical Engineer with experience spanning of 22 years in management, design and supervision of mechanical works for numerous local and international projects including but not limited to: mixed-use complexes, hotels, district cooling plants, residential towers, infrastructure utilities, airports, hospitals, recreational, tourist, educational buildings, industrial and storage facilities, oil & gas facilities and water / waste water treatment plants.

Mr. Badawi's wide experience obtained during his employment in one of the international contractors (**Saudi Oger – 4 years**), one of the world's well established and recognized international consulting organizations (**Dar Al-Handasah – 8.5 years**) as well as one of the leading consulting firms (**Saudi Diyar Consultants- 2 years**).

Mr. Badawi's experience record includes over 100 projects in various countries including Egypt, Saudi Arabia, UAE and Qatar. This experience in a variety of countries and project types along with his substation background in supervision and commissioning of work has allowed Mr. Badawi to define multiple approaches for delivering electrical works to meet Client's unique requirements.

Mr. BADAWI REGISTRATIONS/AFFILIATIONS

Member of the Egyptian Engineers Syndicate, 1992.

Certified Mechanical Consultant - Egyptian Syndicate of Engineers, 2013

Certified Member of ASHRAE.

Certificate Member in ITT Bill and Gossete, Chicago, USA for large chilled water system application,

Certificate Member in Güntner – Munich, Germany for custom build air cooled remote radiators.

Certificate Member in Air Enterprises – Ohio, US, for custom build air handling units.

Mohamed Anwar Khatab
Electrical Manager
cec.info@cairo-eng.com

Mr. Khatab is an Electrical Engineer with experience spanning of 21 years in management, design and supervision of electrical works for numerous local and international projects including but not limited to: mixed-use complexes, hotels, MV/LV distribution networks, MV/LV electrical substations, residential towers, infrastructure utilities, airports, hospitals, recreational, tourist, educational buildings, industrial and storage facilities, oil & gas facilities and water / waste water treatment plants.

Mr. Khatab's wide experience obtained during his employment in one of the international professional project management company (**QPM – 4.5 years**), one of the top international engineering design firms (**WorleyParsons – 1 year**) and one of Australia's leading international consulting firms (**GHD – 4 years**) as well as one of the world's well established and recognized international consulting organizations (**Dar Al-Handasah – 10 years**) and one of the top specialized MEP design offices (**Shaker Consultancy Group – 2 years**).

Mr. Khatab's experience record includes over 100 projects in various countries including Egypt, UAE, Qatar, Saudi Arabia, Australia, Tajikistan, Kuwait, Jordan, Angola, Iraq, Algeria, Bahrain, Lebanon and Yemen. This experience in a variety of countries and project types along with his substation background in supervision and commissioning of work has allowed Mr. Khatab to define multiple approaches for delivering electrical works to meet Client's unique requirements.

Mr. Khatab REGISTRATIONS/AFFILIATIONS

Egyptian Syndicate of Engineers, 1993.

Egyptian Society of Engineers, 2013.

Certified Electrical Consultant - Egyptian Syndicate of Engineers, 2010.

Member of the "Accreditation Committee for Engineers and Consultants" - Egyptian Syndicate of Engineers, 2012.

Electrical Reviewer "Committee for Review of Mixed Use Projects in Egypt" responsible for the review and approval of Mixed Use projects in Egypt – Housing and Building National Research Center (HBRC), Egypt, 2007.

Member of the "Committee for Preparation of Egyptian Electrical Codes" – Housing and Building National Research Center (HBRC), Egypt, 2010.

Member of the "Committee for Preparation of Egyptian Fire Protection Codes" – Housing and Building National Research Center (HBRC), Egypt, 2008.



SAMPLE OF LANDMARK PROJECTS LEADED BY
PRINCIPLES AS INDIVIDUALS DURING THEIR
EMPLOYMENT IN INTERNATIONAL COMPANIES

Nile Cornich High-Rise Hospitality and Residential Complex, Egypt.



The project site will have a total built-up area that measures 197,227 square metres and is located on a plot of land that totals 9,360 square metres. The scope of work includes the construction of an L-shaped south tower for St. Regis Hotel comprised of 226 standard rooms, 60 hotel suites, 98 serviced apartments, 16 luxury serviced apartments, and a north tower comprised of 102 luxury hotel serviced apartments, and a penthouse. All of these elements are situated on a prominent piece of land that incorporates the hotel’s front and back of house, lobbies, offices and support service areas - including an underground parking garage.

Dubai International Airport - Terminal 3, United Arab Emirates.



Design of new underground structure terminal with a site area of 515,000 m² (450 m in width and 502 m in length and a depth of 21.7 m), includes 180 check-in counters and all special systems, namely passenger boarding bridges, baggage handling units, Flight Information Display (FID) and Baggage Information Display (BID) systems, security systems, building management and public address systems, CCTV, integrated systems, etc. Other facilities comprise lounges, restaurants, duty free area, clinic, hotel, and an

adjacent multi-storey car-park for 2,600 vehicles. Works also included design of the road network leading to and out of the terminal, including two interchanges.

United Arab Emirates University, Al-Ain, UAEU



The campus has a built-up area of almost 300,000sq m across 350ha and accommodate up to 18,000 students.

Project comprises the design of 46 new buildings, including 10 five-storey female residences, three female and three male sports and village buildings, six female and four male academic buildings, 6 four-storey shared laboratories and a six-storey administrative building in the shape of a crescent.

King Abdul Aziz Endowment, Saudi Arabia



The development consists of a large podium topped by seven towers of various heights. The tallest tower with over 100 floors - a 2,000-room, 5-star hotel- is located on

the southern side Facing the Haram. Podium includes commercial retail center; Restaurants and food courts; prayer areas for 3, 8000 people and a public plaza Six towers, ranging from 33 to 48 residential floors, are Spread along the periphery of the site to maximize direct view to the Haram from each of the podiums.

Princess NORA University for Girls, Riyadh, Saudi Arabia



The new university is the largest women university in the world, covering 800 hectares on the outskirts of Riyadh. The new campus includes a 700-bed university hospital,

15 colleges, a central library, a conference hall, laboratories and three research centres for nanotechnology, information technology and biosciences. It also comprises staff housing units, student hostels, primary, intermediate and secondary schools and recreational facilities plus administration buildings.

BIERHAA Residential Tower, Qatar



The Tower comprises of three basement floors, ground Floor, three podium floors, and 30 tower floors which include, 1 Public facilities floor, 1 Roof garden floor, 2 Public facilities floors, 2 mechanical floors, 24 residential floors with 220 serviced apartments (1, 2 and 3 bedrooms apartments).

The Building also includes a panoramic restaurant & café, Health club, swimming pools and gymnasium facilities, multipurpose hall, car parking and services at the basement and podium levels.

King Abdul-Aziz Center for World Culture, Saudi Arabia



The Center is constructed on top of the oil-rich Dammam Dome, making it both a national landmark that commemorates Saudi Arabia's first discovery of oil and a leading educational and cultural institution. Housed in an iconic building,

the Center will offer a world-class museum, public library, historical archives, children's educational center, conference and performance facilities and more. It will be the highlight of Saudi Aramco Cultural Park, which will also include a major community-oriented oil museum and corporate conference facilities

Al Raha Gardens, Abu Dhabi, UAE



Al Raha Gardens is a mixed-use residential, commercial, leisure and retail development in Abu Dhabi, UAE. The site extends over 3km adjacent to the Dubai-Abu Dhabi motorway and neighbouring Al Raha Beach. The project consists of 750 residences including villas and town houses as well as community services, including three schools, a medical centre, retail, restaurants, supermarkets, offices, and convention and exhibition space. There will also be a medium-sized hotel and leisure complex, an

equestrian centre, and a sports field for polo and other field sports.

Jabal Omar Development, Saudi Arabia



The Jabal Omar Development Project is a unique urban regeneration scheme aimed at providing hotels commercial, retail spaces, car parking, public spaces and public amenities to support religious, social and commercial activities to Hajj and

Umrah pilgrims during Hajj & Ramadhan seasons and other visitors all year round. The land area of the project is approximately 230,000 sq.m. with built up floor area of approximately 2 million sq.m.

Air Force Medical Centre, New Cairo, Egypt



With a site area of 6 ha and a total built-up area of 50,600 m², the hospital comprises 250 beds, 4 specialised intensive care departments, 11 main operating theatres, emergency departments, a day surgery, an 8,000 m² outpatient department with 80 clinics and treatment units as well as a specialised centre for aviation and space medicine.

Dushanbe Electricity Network Rehabilitation, Dushanbe Tajakistan



Design for the rehabilitation of the electricity network in order to improve the supply reliability and reduce the network distribution losses. Project components comprise extension and rehabilitation of four 110/35/10-6 kV substations, including addition of new power transformers and 110 kV switchgear, replacement of the existing 10-6 kV MV switchgear, installation of new control and protection equipment, and all associated auxiliary systems and civil works; rehabilitation of distribution

network, including installation of 105 new 10-6/0.4 kV package transformer substations, installation of a new 58 km long underground cable network (10-6 kV), and replacement of existing 0.4 kV and 6 kV overhead lines (158 km and 2 km long respectively) by new insulated bundled lines.

Jumeirah Park - Villas and Infrastructure, Dubai, UAE



Design of the residential development at the Jumeirah Park. With a surface area of 400 ha for 2,764 villas of 2 storeys each and a prospective population of 25,000.

Water Supply for the South East of Luanda, Angola



The project comprised upgrading treatment and transmission capacity to 43,200 m³/day; rehabilitation and upgrading of the water supply system; cleaning and rehabilitation of 21 km of open channels; rehabilitation of the Kassaque water pumping station with a capacity of 0.5 m³/s; execution of a new raw water pumping line with a diameter of 1,200 mm and a length of 3.15 km; execution of new transmission pipelines with a total length of 28 km; rehabilitation and extension of the existing storage reservoirs and pumping station at the Palanca distribution center; and construction of a 169 km water distribution network.

Ibn Batouta Mall, Dubai, UAE



Design, of the Ibn Battuta Gate in Dubai on a total site area of 33,180 m², the striking mixed-use complex is characterized by the following notable features:

64,500 m² of office building with 3 basements, a ground floor and 10 typical floors. 4-star hotel and furnished apartment block with a total built-up area of 113,200 m², encompassing three basements, ground and mezzanine floors, ten standard and upper roof floors with 452 modules for the hotel and 156 high-quality furnished apartments

Special Forces Facility, Kuwait City, Kuwait



Design of special military facilities with a total built-up area of 268,000 m² on a site area of 630 ha, including buildings, infrastructure and special military facilities, serving 6,000 residents and over 600 administrative staff.

Palm Jumeirah | Marina Apartments, Dubai, UAE.



ornamental site lighting, swimming pools as well as exterior and interior planting.

The Palm Jumeirah is one of the leading projects in Dubai, designed to house a population of 25,000 on a 400-ha area. Situated at the tip of the trunk on the Palm Jumeirah, the Marina Apartments project is composed of Six 18-storey luxury residential towers that rest on two landscaped podiums and are faced with marinas, Ten 3-level townhouses overlooking the sea, 3 lower levels for parking spaces, Pedestrian pavements and plazas, shade structures and gazebos, outdoor furnishings, functional and

Oceana Development, Dubai, UAE.



apartments of different sizes, underground secured parking, indoor suspended swimming pool at top level in addition to all landscaping, irrigation, road and infrastructure services A Health Club, including club house, swimming pool and indoor sports facilities for both

Design of the residential and tourist development of the Oceana Development with a total built-up area of 240,000 m² located on a site area of 40,000 m², the project included the following main components:

Shoreline Apartment Buildings with a total of 640 residential units comprising one, two, and three bedroom apartments, penthouses, garden apartments, duplex villas located at the base of every apartment building, basement parking as well as landscaping and irrigation services Hotel and Serviced Furnished Apartments, including a 300-key 5-star hotel with all guest facilities, 130 furnished

Al Wakrah Hospital, Doha, Qatar



Design and post -contract supervision of 300-bed, 122,000sqm acute care hospital, south of Doha

COMPLETE LIST OF PROJECTS LEADED BY PRINCIPLES

Hospitals:

- Specialty Teaching Hospital, Qatar.
- Al Wakra Hospital, Qatar.
- Pediatric Hospital and Emergency Department, Jordon.
- Air Force Medical Center, Egypt.
- King Abdel Aziz Hospital Complex in Al-Hasa, Saudi Arabia

Mixed Use Complexes:

- Qatari Diar Nile Corniche High Rise Mixed Use Project, Egypt.
- Al Raha Beach Project, United Arab Emirates.
- Jabal Omar Development Project, Saudi Arabia.
- Al Raha Gardnes – Town Center Project, United Arab Emirates.
- Al-Jimi Mall West Extension, United Arab Emirates.
- Emaar Old Town Residential Complex, United Arab Emirates.
- The Palm Jumeirah, United Arab Emirates.
- Development of King Abdul Aziz Endowment (Jabal Al Kaala), Saudi Arabia.
- Ibn Battuta Complex at Gardens Mall, United Arab Emirates.
- San Stefano Complex, Egypt.
- Wast Bay Complex, Qatar.
- Madinah Haram Shopping Centre, Saudi Arabia.
- Al Wabra Complex, Qatar.

Airports:

- Dubai International Airport - Terminal 3, United Arab Emirates.
- Dubai International Airport - Terminal 2 Expansion, United Arab Emirates.
- Royal Airwing at Dubai International Airport, United Arab Emirates.
- New Terminal Building at Sharm El-Sheikh Airport, Egypt.
- Sanaa International Airport, Yeman.
- New Doha International Airport, Qatar.
- Air-Cargo Complex, King Fahd Airport in Dhahran, Saudi Arabia.
- Abu Dhabi International Airport - Satellite Expansion, United Arab Emirates.
- AL Ain International Airport Passenger Terminal Expansion, United Arab Emirates.

Hotels:

- St.Reges Hotel, Egypt.
- Four Seasons Hotel, Egypt
- Le Méridien Hotel, Amman, Jordan.
- InterContinental Hotel, Qatar.
- Heliopolis Sheraton Hotel, Egypt.

Education:

- Princes Noura University (PNU), Saudi Arabia.
- United Arab Emirates University, United Arab Emirates.
- Agostinho Neto University, Angola.
- Dubai Higher Colleges of Technology for Men & Women, United Arab Emirates.
- Qatar National Library Project, Qatar.

Office Buildings:

- Ibn Battuta Office Building, United Arab Emirates
- Pyramids Heights Office Park, Egypt.
- Housing Bank Headquarters, Jordan.
- Al Emadi Tower, Qatar

Residential Compounds:

- Qatari Diar Sharm EL Sheikh Resort, Egypt.
- Residential Resort at the Cultural Village, Qatar.
- Al Raha Gardnes, United Arab Emirates.
- Sheikh Abdullallah Compound, Qatar.
- Sheikh Hamad Compound, Qatar.
- Ras Gas Housing Project, Qatar
- Dukhan Housing Project, Qatar.
- Al Khor Development Project
- Rawdah State Majlis, Bahrain.
- West Bay Lagoon Villas, Qatar.

Defence and Security:

- An'numaniyah military base, Baghdad, Iraq.
- Special Forces Facility, Kuwait.

Residential Towers:

- Saadiyat Island Residential Towers, United Arab Emirates.
- Qatar Airways Crew Accommodation, Qatar
- Bilal Pearl Tower, Viva Bahriya, The Pearl, Qatar.
- Bierhaa Residential Tower, Qatar.
- Al-Ryan Residential Tower, Qatar.

Industrial:

- Makka Holy Haram Service Utility Culvert, Saudi Arabia.
- EgyPhos Phosphatic Fertilizer Plant Feasibility Study, Egypt.
- British Petroleum - North Shadwan near Shoreline Project, Egypt.
- ADNOC FERTIL Warehouses, United Arab Emirates.
- Industrial City, Sinogulf Warehouses, United Arab Emirates.
- Burj Dubai district, District Cooling Plant (DCP-3), United Arab Emirates.
- King Abdul-Aziz Endowment Central Utility Plant, Saudi Arabia.
- Soyo Kwanda Base, Angola.
- Oil Services Centre, Engineering Works, Angola.
- Porcelain Factory at Sadat City, Egypt.
- Hyundai showroom and workshop facilities, Egypt.
- Selectivity Study for 6th of October University, Egypt.
- Earthing System for USA Embassy Warehouse, Egypt.
- Power Factor Correction, Nile Tower Office Building, Egypt.

Infrastructures & Utilities:

- Light Rail Train Station, United Arab Emirates.
- Dushanbe City Electricity Network Rehabilitation, Tajikistan.
- Astana Master Plan, Kazakhstan.
- Pilgrims' Accommodation - Muna Tents, Saudi Arabia.
- West Nile Delta – Site Development, Egypt.
- Palm Jabal Ali, United Arab Emirates.
- Industrial City, Sinogulf Infrastructure, United Arab Emirates.
- Yas Island Golf Clubhouse, United Arab Emirates.
- Al Raha Gardnes Infrastructure, United Arab Emirates.
- Alamiria Waste Water Treatment Plant, Egypt.
- El-Omayed, Safaga, Qena & Marsa Matrouh (220/66/22 kV) High-Voltage substations, Egypt.

Water & Waste Water:

- Water Supply and Treatment Pumping stations, Saudi Arabia.
- Water Supply to South East of Luanda, Angola.
- Sana'a Water and Wastewater, Yemen.
- Oran Water Supply, Treatment and Transmission, Algeria.
- Gabal El-Asfar Wastewater Treatment Plant, Egypt.

Miscellaneous:

- Australian Embassy, United Arab Emirates.
- Dubai Festival City Show Rooms, United Arab Emirates.
- Islamic Youth Center at Alhilal, Qatar.



SAMPLE OF CEC PROJECTS

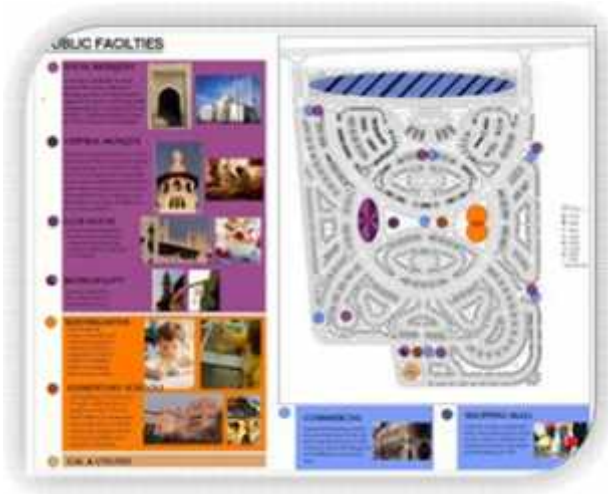
SAMA Hospital, Alexandria – Egypt.



The project comprises of 11700 m² of high scale hospital with 9 operation rooms

The scope of work includes value engineering and re-design of the MEP works

Hydra Village – Abu Dhabi, UAE



The project is approximately 1,000,000 square meters of multi-activities comprise of 2,300 town houses, two kindergartens, two elementary schools, one club house, seven local commercial centers, one central mosque, six local mosques and one municipality complex.

The scope of work includes the preparation of the tender documents for the external infrastructure utilities (Irrigation network, Sewage network, Water supply and Firefighting network, Storm water network, Chilled water network, Medium and Low voltage Power supply networks, Telecommunication network and Landscape & road lighting).

Egyptian Embassy – Tashkent, Uzbekistan



The project is the Egyptian Embassy and the ambassador residence including office spaces, lecture halls, external sport facilities with a total construction cost of approximately 20,000,000 EGP.

The scope of work includes the preparation of the tender documents for the MEP works.

Egyptian Embassy – Kuwait, Kuwait

The project is the Egyptian Embassy and the ambassador residence in Kuwait, including all required facilities.

The scope was limited to the concept design for the MEP systems.

New Affordable Housing Project in Kingdom of Saudi Arabia



The project is approximately 250,000 square meters of multi-activities

The scope of work includes the preparation of the tender documents for the external infrastructure utilities (Irrigation network, Sewage network, Water supply and Firefighting network, Storm water network, Chilled water network, Medium and Low voltage Power supply networks, Telecommunication network and Landscape & road lighting).

Misfala District Cooling Chilled Water Plant in Makka Holy Haram, KSA



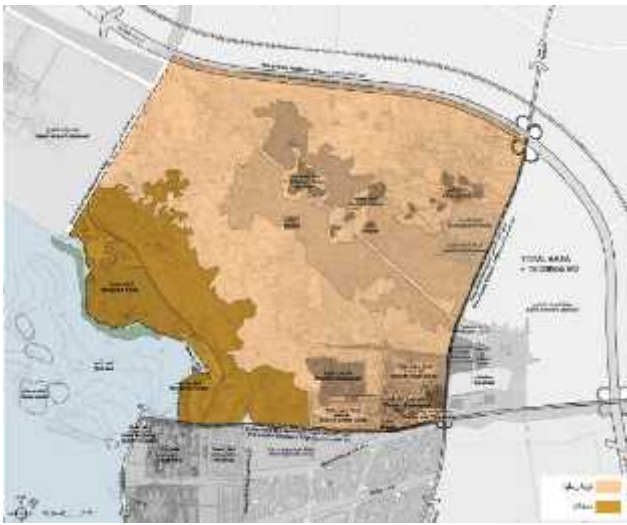
60000 R.T Chilled Water District Cooling Plant, by thirty CYK Centrifugal chillers from YORK integrated with Guntner – Germany air cooled remote radiators where distributing the chilled water via under-ground service utility tunnel 1000m long far from the Holy Mosque in Makah.

Olympic Stores, New Cairo, Egypt

The project is approximate 16000sqm warehouse for Olympic Group including car park and trucks loading areas.

The scope of work includes the preparation of the tender documents for the Electrical works.

King Abdullah Suburb In Jazan, Saudi Arabia



The aim of this project is to prepare the required studies and designs for improving and developing the King Abdullah New district- Jizan. The total site area is approximately 85 square km. It will be a recreation and tourism centre for Jizan region.

The scope of work includes the preparation of all infrastructure utilities (Irrigation network, Sewage network, Water supply and Firefighting network, Storm water network, Chilled water network, Solid waste Management and Medium voltage Power supply networks, Telecommunication network and Landscape & road lighting).

BIN SAMIKH hotel -El- Doha Elhaditha, El- Dafna, Doha.



The project involves construction of a tower consisting of 3 basement

levels, ground floor, mezzanine floor and 67 floors. The tower includes 24 five star hotel suites, 170 residential apartments, 234 rooms of single and double wings, 192 serviced hotel apartments, 4 restaurants, and conference halls for multiple purposes on an area of 1500 sq meter, a business center, a swimming pool and a health club.

The scope of work includes the preparation of the tender documents for the MEP works.

Bayat Plaza' in Jeddah, Saudi Arabia

The Project includes two towers an area 200,000 square meters and includes residential apartments and shops .



The scope of work includes the preparation of all Electromechanical systems, including the electrical power, low current , Ventilation Air conditioning, plumbing and firefighting, in addition to the life safety report and civil defense approval documents.

Hospitals in Saudi Arabia

A group of hospitals, for example:

- 1- 200-bed Dhahran Al-Janoub Hospital (The Project includes three floors , an area about 35,000 square meters)
- 2- 200-bed Rijal Almaa Hospital (The Project includes three floors , an area about 35,000 square meters)
- 3- 200- bed Al darb Hospital (The Project includes three floors , an area about 35,000 square meters)

The scope of work includes heating, ventilation Air conditioning thermal load calculations, air balance system and relevant execution drawing.

Jouf University (College of Science & Art Female) in Saudi Arabia



The project includes three floors , an area 60,000 square meters.

The scope of work includes mechanical shop drawing.

Al-murshidy mall – Egypt



Al-murshidy mall shopping center, 6th of October, is 35000 square meter total built up area comprise 2 underground basements and 4 numbers of floors.

The scope of work includes the preparation of all Electromechanical systems, including the electrical power, low current, Ventilation Air conditioning, plumbing and firefighting.

Bayan Factory , 6th Of October , IDG Industrial Zone.

Bayan factory, is one of the high technology printing factory in EGYPT.

The scope of work includes the preparation of the tender design documents and site management for the MEP works.

Allegria Commercial Building.

The project includes Ground floor, basement1 floor and basement2 floor an area 3,500 square meters.

The scope of work includes the MEP shop drawings.

Sheikh Saleh Seraphy, Mega Mall “Serafi Megamall”



The project consists of Hyper Market, shops, food court, Kids area and several Kiosks. Serafi Megamall has a simple 'L' shape design that contains a single 4-level retail spine with anchor stores at both ends.

The scope of work includes the preparation of the tender documents for the MEP works.

Beyti office –New Cairo - Egypt.

The project consist Administrative Offices.

The scope of work includes the preparation of the tender documents for the MEP works.

Pacman factory - Egypt.

The Project includes two floors, an area about 2,000 square meters

The scope of work includes the preparation of the tender design documents for the MEP works.

Spinneys - Alharam - Egypt.

The project consist of Hyper Market

The scope of work includes the preparation of the tender documents for the MEP works.

Ajde labs - Egypt.

The project is an office, area 1000 square meter.

The project consisting of individual offices , work stations space , meeting and conference rooms ,service utilities rooms , public corridors and IT /UPS rooms.

The scope of work includes the preparation of the tender documents for the HVAC works.

Spinneys - Hurghada - Egypt.

The project consist of Hyper Market

The scope of work includes the preparation of the tender design documents for the MEP works.

Carrefour Al-baroun - Egypt.

The scope of work includes the preparation of the tender design documents for the MEP works.

Baobab College – Zambia.



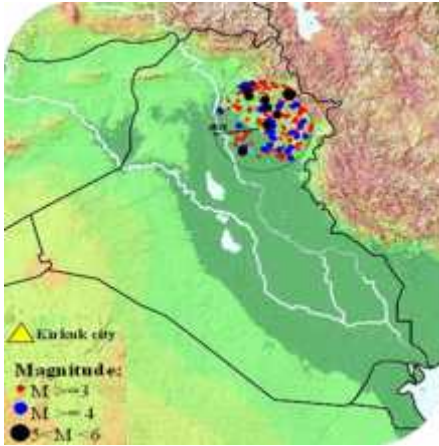
The scope of work includes the preparation of the tender documents for the MEP works.

Chipsy factory, New production plant expansion



The Expansion of the Chipsy factory, chilled water plant including the chillers, pumps , air handling units and ventilation fans.

Kirkuk Cement Factory Power Station– Kirkuk, Iraq



The project is the Electrical Power Station for Kirkuk Cement Factory in Iraq.

The scope of work includes the preparation of the design construction documents for the Electrical systems.

RAYA-Smart buildings - Egypt

The scope of work includes the preparation of the Design, Shop Drawings and As-Built Drawings for the MEP works related to several commercial buildings and projects managed by RAYA-smart buildings.

Dabash Office Building - Egypt.



The scope of work includes the preparation of the tender documents for the MEP works. The building is a certified LEED building.

Toscano Restaurant - Egypt.



The scope of work includes the preparation of the tender documents for the MEP works.

CIB BANK - Egypt.



Project is the Consultancy Service for design and site supervision of HVAC Enhancement 2015- For 7 CIB - Branches:

- 1- Port Said
- 2- Menia
- 3- Sultan Hussein
- 4- Triumph
- 5- Merryland
- 6- Mokattam
- 7- Mohandessin

The scope of work includes:

- A. Make full HVAC design along load calculation and selection in load cooling capacity fresh air & ventilation.
- B. Site Survey along with full revision on the existing air conditioning system.
- C. Full site and installations supervision.

SAMPLE OF DESIGN REVIEW AND VALUE ENGINEERING PROJECTS

Al Salam International Hospital, Cairo, Egypt

The consultant is Allied Consultants, Egypt.

Al-Futaim Cairo Festival City, New Cairo - Egypt

The client is MAJID Al Futtaim Holding.

The consultant is Engineering Consultants Group ECG, Egypt.

DUBAI BEACH HOUSE, Dubai - UAE

The client is Abdul Lateef Jameel CO. LTD.

The consultant is Aurecon Engineering International (Pty) Ltd.

TOYOTA PDC Warehouse – Jeddah - Saudi Arabia

The client is Abdul Lateef Jameel CO. LTD.

The consultant is Pivotal International, Ireland.

Emaar Azzurra Village, Up Town Cairo, Egypt.

The client is Emaar Egypt.

The consultant is Shaker Consultancy Group, Egypt.

Al-Ghadeer Hotel, Riyadh - Saudi Arabia.

The consultant is, Egypt.

EFAD New Cairo Compound, New Cairo, Egypt

The client is EFAD Holding, Kuwait.

The consultant is Crown Home, Egypt.