



TAWAKOLTECH

BUILDING FUTURE . MAINTAINING TODAY

Table of Content

The Story Behind Al-Tawakol Group.....	04
Al-Tawakol Group Companies.....	06
Al-Tawakol Group Timeline.....	08
Al-Tawakol Group Figures.....	10
Company Overview.....	12
Mission & Vision.....	14
Our Core Values.....	15
Our Capabilities.....	16
EPC Turnkey Projects.....	18
EPC Activities Highlights.....	22
Operations & Maintenance.....	24
O&M Core Services.....	28
Product Offering.....	30
Business Segment.....	32
Wiring Devices Supply Projects.....	34
ZWSOFT.....	36
Our Certificates	38
Ecovadis Certificates.....	40
Our Partners.....	42
Our Clients.....	44
EPC Projects Reference Highlights	48
O&M Projects Reference Highlights	61
Telecommunications Projects	75

THE STORY BEHIND AL-TAWAKOL GROUP

The **TAWAKOL** brothers began shaping the **AL TAWAKOL** legacy through the acquisition of **Fratelli Gila**, a small trading company founded in **1892** by two Italian brothers and specialized in electrical equipment.

Their sole condition for the sale was to transfer ownership to another family, preserving the company's heritage and values.

In **1975**, **AL TAWAKOL Group** was established as a family-owned business, building on this strong electrical foundation.

For **over 50 years**, the Group has achieved continuous growth, consistently reaching new milestones and expanding its expertise across the Egyptian market.

With deep roots in electrical equipment and solutions, **AL TAWAKOL Group** has grown into a diversified enterprise operating across multiple sectors, including solar and renewable energy, industrial solutions, construction, tourism, real estate development, distribution, recycling, and galvanization.

The Group has also built strong partnerships with leading global brands such as **Schneider Electric**, **ACWA Power**, and **Intro for Renewable Energy**, reinforcing its position as a trusted industry leader.

Through continuous investment and development, **AL TAWAKOL Group** remains committed to delivering advanced **electrical solutions** and improving quality of life across the markets and communities it serves.

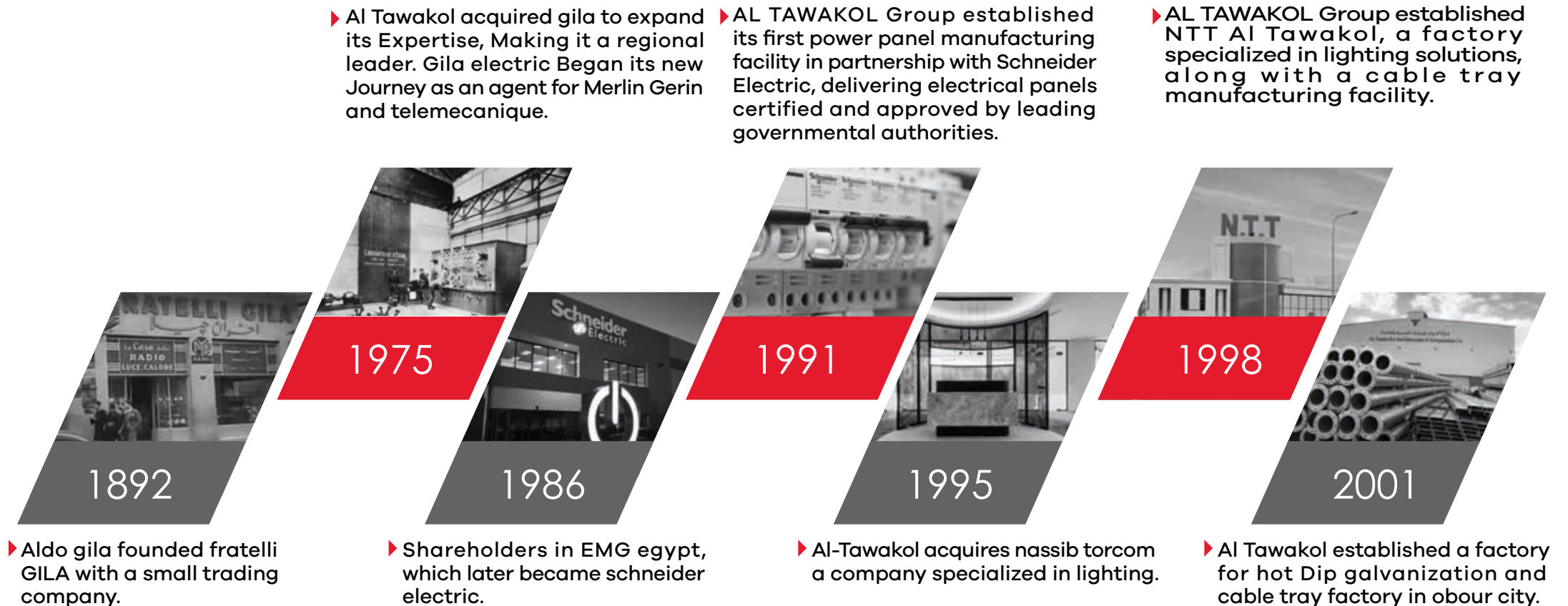


AL TAWAKOL

G R O U P



Al-Tawakol Group Timeline



► Al Tawakol for construction.

► Reef oasis eden began construction on this project in sharm El sheikh.

► Launched winergy solar 20MW PV plant benban, aswan, egypt.

► TAWAKOLTECH Established as an independent entity, emerging from a sector of Gila Electric.

2008

2010

2013

2017

2019

2020

2024

► El emmar for construction.

► Started commercial operation of 5MW Solar Plant in Sharm El Sheikh, Egypt.

► Established an engineering, procurement & contracting department (EPC).

Al-Tawakol Group Figures



50+ years

of successful achievement in the egyptian market



200K

Tons of greenhouse gases reduction



5000+

Administrative SQM



1500+

Awarded projects in 2023



2400+

Employees



2000

Commercial SQM



500+

Engineers



100+

Retailors



12+

Factories in egypt 180,000 SQM



20+

Iso certifications



4+

Countries



LIBYA

EGYPT

SAUDI

UAE



Factories



Stores



Head Office

TAWAKOLTECH | FROM AN EPC & O&M BUSINESS UNIT WITHIN GILA ELECTRIC TO AN INDEPENDENT COMPANY



01

START

EPC & O&M Business
Unit within Gila Electric



02

GROWTH

Took on more projects
expanded capabilities
and built strong delivery
track record



03

EVOLUTION

Integrated EPC & O&M
Company

Tawakol Tech started as an EPC & O&M
Business Unit inside Gila Electric.

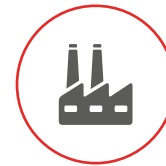
The strategic direction was to grow and
evolve into a dedicated company.

Evolved into a dedicated standalone company
within Al Tawakol Group, becoming the
Group's contracting arm and executing
projects under Tawakol Tech name.

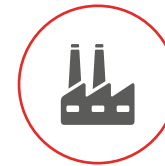


GILA ELECTRIC
OWNS %80 OF TAWAKOL TECH

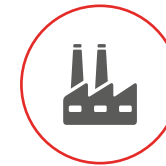
LEVERAGING THE GROUP'S MANUFACTURING CAPABILITIES TO DELIVER INTEGRATED EPC & O&M SOLUTIONS



GILA ELECTRIC
Manufacturing
Facilities



NTT
Manufacturing
Facilities



AL- TAWAKOL FOR
STEEL FABRICATION
& GALVANIZATION
Manufacturing
Facilities

COMPANY OVERVIEW

POWERED BY **GILA ELECTRIC**

Tawakol Tech is a key pillar of Al Tawakol Group, specializing in EPC (Engineering, Procurement, and Construction) solutions for electromechanical and automation systems, alongside comprehensive Operation and Maintenance services.

We deliver fully integrated solutions—from design and execution to long-term operation—with a strong focus on real time delivery and efficient project turnaround, minimizing downtime and accelerating time-to-operation across critical projects.

Our expertise covers a wide range of sectors, including railways, industrial facilities, infrastructure, power, oil & gas, residential and commercial developments, healthcare, data centers, and district cooling and heating plants.

We are also an authorized reseller of ZWSOFT software, supported by a dedicated trading division that supplies our group's own products alongside a portfolio of trusted multinational brands. This structure strengthens procurement efficiency and supports consistent, reliable project delivery.

Through intelligent system design, predictive electrical analysis, and expert operational management, we enhance performance, extend asset longevity, and minimize risk—delivering sustainable, long-term value for our clients.



Vision

To be a reliable leader in electromechanical, automation, maintenance services across the region, recognized for our technical expertise, commitment to quality, and ability to power diverse sectors with tailored solutions.



Mission

To provide high-quality EPC - electromechanical and automation and operation and maintenance solutions that meet international standards across diverse sectors. We are committed to ensuring efficiency, reliability and long-term performance for our clients through precise execution, integrated project management, and predictive electrical and Mechanical measurements to enhance operational efficiency, costs, and quality of life.

The infographic features a background image of a modern office with glass partitions and desks. Six red-outlined rounded rectangles are arranged in a circular pattern around a central red banner. Each rectangle contains a large number, a bold title, and a descriptive paragraph. The central banner has the text 'OUR CORE VALUES' in white and black. The values are: 1. Client Commitment, 2. Engineering Excellence, 3. Efficiency, 4. Reliability, 5. Integrity, and 6. Optimization. The numbers 1, 2, 3, 4, 5, and 6 are in a large, stylized font. The titles are in bold red, and the descriptions are in a smaller, grey font. The background image is faded and serves as a backdrop for the text elements.

1

Client Commitment

We focus on understanding client needs and delivering tailored solutions that create measurable long-term value.

4

Reliability

We are committed to consistent performance, dependable delivery, and long-term client trust.

2

Engineering Excellence

We apply deep technical expertise and industry best practices to deliver reliable and high performing solutions.

5

Integrity

We operate with transparency, accountability, and ethical business practices in every project.

3

Efficiency

We prioritize fast-track execution and operational efficiency without compromising quality or safety.

6

Optimization

We leverage advanced tools, predictive analysis, and modern engineering approaches to continuously improve performance and outcomes.

**OUR CORE
VALUES**

OUR CAPABILITIES

Tawakol Tech combines engineering expertise, manufacturing capability, advanced software tools, and disciplined project management to deliver reliable electromechanical and automation solutions across diverse sectors with efficiency and precision.

1. Engineering & Software

Advanced electrical design and analysis supported by specialized software such as EPLAN, Caneco, AutoCAD, and ZWSOFT, enabling accurate power system design, load calculations, short-circuit analysis, protection coordination, and efficient project execution from concept through commissioning.

Comprehensive mechanical solutions supported by advanced engineering tools, covering HVAC systems, plumbing, firefighting systems, mechanical calculations, and optimized design development from concept to implementation.

Advanced automation and control system design utilizing specialized software for PLC programming, SCADA development, control panel design, industrial automation planning, and system integration, ensuring optimized operational efficiency and reliability.

2. Project Management

Structured project management approach covering planning, scheduling, execution, and monitoring to ensure timely delivery, cost control, and alignment with technical and client requirements across all project phases.

3. Instrumentation & Devices

Advanced testing, measurement, and diagnostic capabilities supported by specialized industrial instruments and devices such as insulation testers, thermal imaging cameras, earth testers, power quality analyzers, circuit breaker analyzers, and relay testing equipment to ensure accurate analysis, system reliability, and optimal operational performance across critical environments.

4. Industrial Workshops

Fully equipped industrial workshops supporting fabrication, assembly, bench testing, calibration and maintenance activities. Equipped with advanced tools and testing equipment to ensure precision, quality control, and reliable execution across electromechanical and automation.

5. In-House Products

We supply electromechanical products through our group companies manufacturing facilities, alongside a portfolio of trusted multinational brands. This integrated supply structure ensures consistent quality, faster availability, and reliable performance across all applications.

EPC TURNKEY PROJECTS

Tawakol Tech delivers fully integrated EPC turnkey solutions across major infrastructure and energy sectors, ensuring end-to-end execution from engineering to commissioning.

1. Electromechanical & Automation Systems

Full scope electromechanical & automation solutions for commercial, industrial and large-scale facilities, including engineering, installation, testing and commissioning.

2. Infrastructure Projects

Execution of large-scale infrastructure projects for industrial, commercial, and urban development, specializing in electromechanical systems including utility networks and integrated EPC solutions.

3. Power Transmission & Distribution

We provide complete EPC solutions for power networks, including overhead transmission lines (OHTL), underground cables (UGC), and medium- to high-voltage substations (MV/HV), covering engineering, installation, testing, and commissioning.

4. Water & Wastewater Treatment

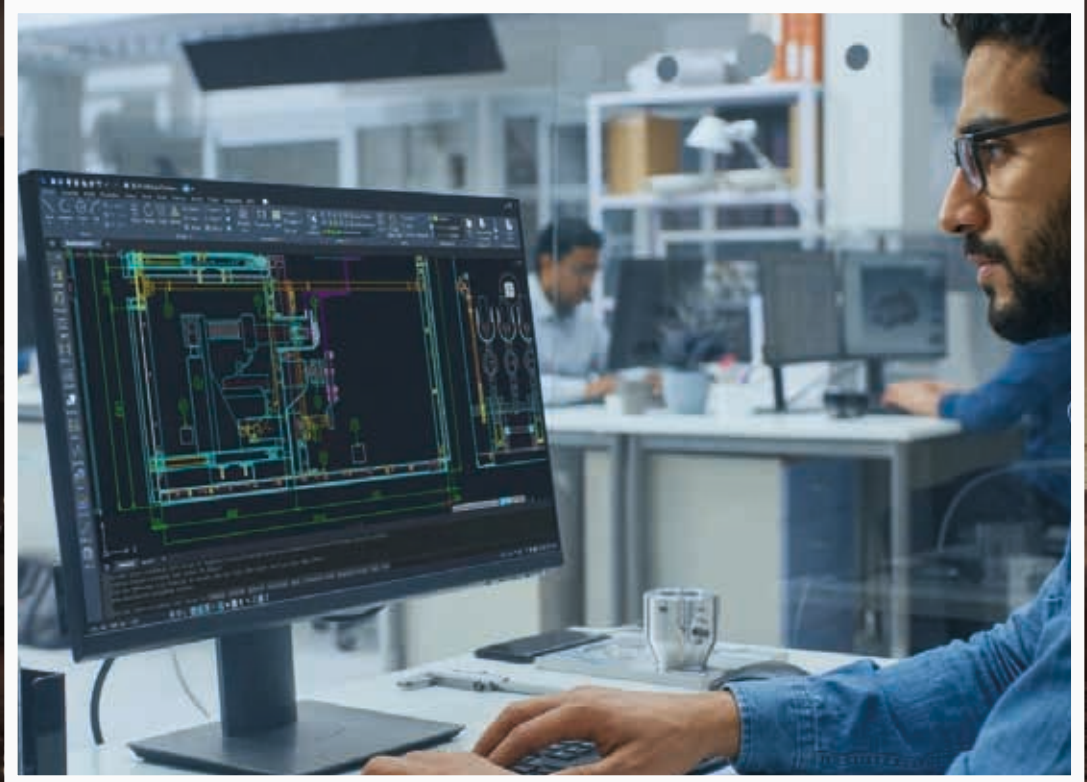
Comprehensive EPC solutions for water infrastructure including treatment plants, water desalination systems, pipeline networks, distribution systems, pumping and lifting stations, as well as mechanical and plumbing works for industrial and municipal applications.

5. Renewable Energy

Full EPC delivery of photovoltaic (PV) solar energy projects, including system design, procurement, construction, grid integration, and commissioning. Focus on optimized energy yield, system reliability, and efficient project execution.

EPC ACTIVITIES HIGHLIGHTS

- High Tension
- Medium & Low Voltage
- Light Current
- Fire Fighting
- HVAC
- Automation & Instruments



Operation & Maintenance

we deliver comprehensive operation and maintenance services designed to ensure the reliability, efficiency, and long-term performance of electrical, mechanical, and electromechanical systems. Through preventive, predictive, and corrective maintenance strategies, we support continuous operation, minimize downtime, and optimize asset performance across industrial and commercial facilities.

- Plants electrical total management contracts.
- Maintenance services agreements.
- Electrical equipment audit.
- Electrical equipment commissioning & start- up.
- Electrical equipment overhaul.
- Instruments calibration, maintenance & testing.
- Air condition maintenance & troubleshooting.
- Electrical equipment fault diagnostic & troubleshooting.
- Mechanical equipments and network.
- Fire systems.
- Plumbing systems.





Predictive Maintenance

Advanced predictive maintenance services utilizing specialized testing, monitoring, and diagnostic techniques to identify potential failures, enhance equipment reliability, and optimize operational performance before critical issues occur.

- Partial discharge monitoring.
- Power quality analysis.
- Current signature motor analysis.
- Thermograph survey.
- Earthing ground measuring.
- MV circuit breakers tests.
- MV relay calibration.
- Windings insulation tests.
- Oil transformer tests.
- Mechanical work shop.
- M.V slip ring motors ovality & surface roughness measuring.

Industrial Workshops

Specialized industrial workshops equipped to support assembly, repair, maintenance, and testing activities for electrical, mechanical, and electronic systems—ensuring reliable performance, precision workmanship, and efficient turnaround.

- Electrical panels assembly workshop.
- Motor repair workshop.
- Electronic cards repair workshop.



O&M Core Services

■ Motors Repair



■ Troubleshooting



■ Our Instruments



Insulation tester 5 KV



MEGGER, earth tester
DET14C 600V



MEGGER, circuit breaker
analyzer EGIL



Thermal imager (Camera),
fluke Ti300

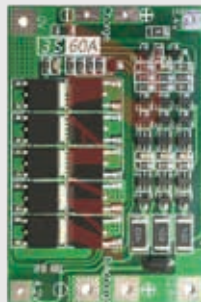
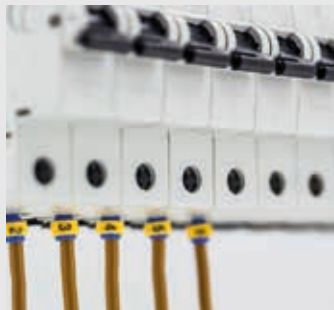


Power quality analyzer fluke 1775



MEGGER, sverker 900

Products



We offer a range of high-quality products sourced from trusted manufacturing partners, carefully selected and supplied as part of our integrated project solutions. Each product is chosen to meet technical specifications, performance standards, and long-term operational requirements.



- LV panels
- MV switchgear
- UPS & STS
- VSD & soft starter
- Busway
- Cable trays
- Lighting poles
- Lighting fixtures
- Fire alarm
- Wiring devices
- BMS
- Access control

BUSINESS SEGMENTS

- Infrastructure & utilities
- Commercial & residential
- Oil & gas
- Banks & telecom
- Industrial
- Water treatment



WIRING DEVICES SUPPLY

Supply of wiring devices including floor boxes, socket outlets, switches, and related accessories for station rooms, workstations, hotels, compounds, and various commercial, residential, and industrial sectors, in accordance with project specifications and approved standards.

STYLE MATCH



EIKON EXÉ



EIKON EVO



LINEA



ARKÉ



NEVE UP



PLANA

Key Projects & References

Supplied premium-grade wiring devices compliant with international hospitality standards.

ADDRESS
MARASSI GOLF RESORT

R
RENAISSANCE®
CAIRO MIRAGE CITY HOTEL

ALSHOROUK
CONSTRUCTION COMPANY

DOMOTICA PLUS
Living Beyond Fantasy

WOODEX®

GAMA
CONSTRUCTION

GILA
ALTAWAKOL ELECTRIC

REEF OASIS
BEACH RESORT

KHARAFI
NATIONAL

R
RADAMIS

KATAMEYA
COAST

INTEREL

VIMAR

To whom it may concern

Marostica, 20th August 2025

Subject: LETTER OF AUTHORIZATION

By this letter we declare that company:

Al Tawakol Electrical Tawakol Tech
33rd, 26th July Street,
Cairo, Egypt PO 343

is authorized to sell Vimar products in Egypt without any exclusivity.

Validity up to: 31/12/2026

Giovanni Maffei
Trade and market activities coordinator
VIMAR S.p.A.

Vimar SpA - Via Varesina, 1/A - 36050 Marostica (VI) - Italy - Tel: +39 0446 485000 - Fax: +39 0446 485001 - Email: info@vimar.it - www.vimar.it
Capital Sociale: € 11.800.000,00 - Registro Imprese di Padova - Cod. Fiscale 07561190287 - Partita IVA 02191780287 - R.E.A. 210289

TECHNICAL SOFTWARE SOLUTIONS ZWSOFT

As part of our expanded offerings, we are an authorized reseller of **ZWSOFT** solutions, delivering professional engineering software to support project requirements.



Customers around the world trust ZWSOFT

HITACHI
Inspire the Next



SONY



Johnson Controls



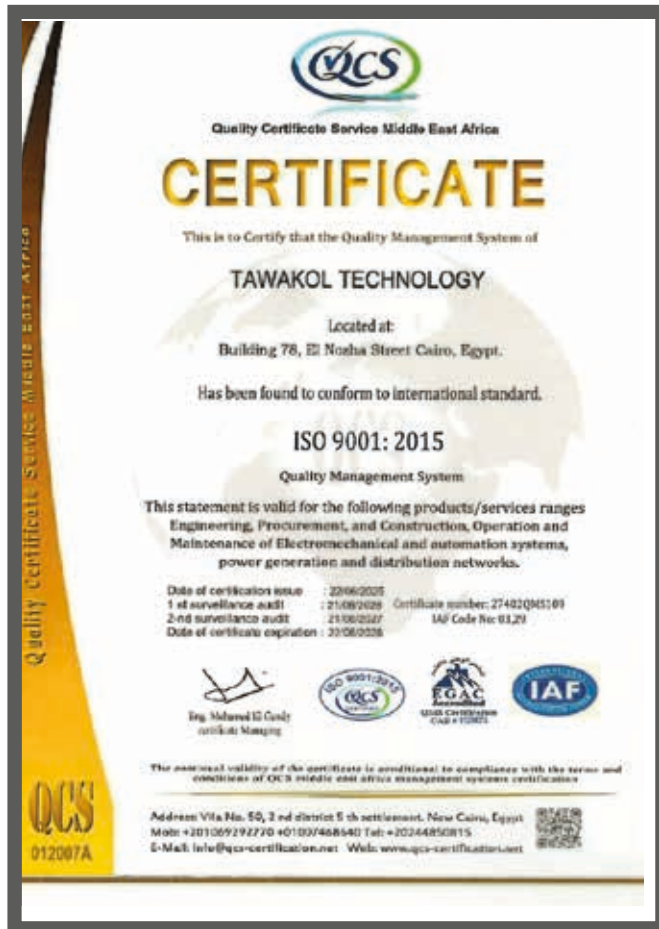
HYUNDAI KEFICO

BRIDGESTONE

Honeywell

OUR CERTIFICATES

Tawakol Technology is committed to the highest standards of quality, environmental responsibility, and occupational health & safety, maintaining a strong QHSE culture focused on continuous improvement and achieving zero fatalities and zero injuries across all operations and project sites.



ISO 9001 : 2015



ISO 14001 : 2015



ISO 45001 : 2018

TAWAKOL **TECH** HAS BEEN AWARDED ECOVADIS BRONZE MEDAL
RANKING IN THE TOP 35% OF COMPANIES WORLDWIDE



In recognition of our commitment to sustainability, ethical business practices, and continuous improvement across our operations.

PARTNERS IN SUCCESS



OUR CLIENTS

ALSTOM

HITACHI
Inspire the Next

 **Air Liquide**

 **LAFARGE**

 **السويس للأسمنتات**
Suez Cement
HEIDELBERGCEMENT Group


SANMAR

ADITYA BIRLA

BIRLA CARBON

 **ezzsteel**
حديد عزم

 **SPHINX**
GLASS


PORSCHE

 **SIDC**
Suez Industrial Development Company
شركة تطوير المناطق الصناعية السويس


شركة مصر بني سويف للأسمنتات ش.م.م
MISR BENI SUEF - CEMENT CO. S. A. E


iff


TITAN

 **IBS**
Integrated Buildings Systems
شركة أنظمة المباني المتكاملة

aramex
delivery unlimited



ELSEWEDY
ELECTRIC

ORASCOM
CONSTRUCTION


COLAS RAIL

Our Clients



B.TECH

ELARABY



mobica.



A person in a dark suit is holding a large, detailed architectural model of a city skyline. The model is held up in front of a real cityscape, which is visible in the background. The person's hands are visible, holding the model from the sides. The background cityscape features various skyscrapers and buildings, with a hazy sky above. The overall image has a professional and architectural feel.

EPC PROJECTS REFERENCE HIGHLIGHTS

■ **Project: Cairo Monorail LV Packag**

■ **Client: Alstom**

Scope of Work:

EPC of the Monorail Electrical LV Package, including engineering, supply, installation, testing, and commissioning of the following:

- LV distribution panels.
- LV power feeding cables, including termination and accessories.
- Wiring devices including floor boxes, socket outlets, and workstation power points for station rooms and operational areas.



■ **Project: Cairo Monorail Electric Switch Beam Installation**

■ **Client: Alstom**

Scope of Work:

EPC of the Monorail Electric Switch Beam System, including design, engineering, supply, installation, testing, and commissioning of the monorail guideway system.

The project comprises two main lines:

- A 54 km line connecting the New Administrative Capital with East Cairo.
- A 42 km line connecting 6th of October City with Giza.

The system includes:

New administrative capital line with 22 stations.
6th of October city line with 12 stations.



■ **Project : Cairo Monorail Station Cable Routing**

■ **Client: Alstom**

Scope of Work:

EPC of cable tray routing works inside stations and depot- of the monorail system for the following lines:

- A 54Km line connecting the New Administrative Capital with East Cairo, consisting of 22 stations and associated depot facilities
- A 54 km line connecting 6th of October City with Giza, consisting of 12 stations and associated depot facilities.
- The scope includes cable tray routing within station buildings, technical rooms, and operational areas as required



■ **Project: Cairo Metro Line 4 and Metro Aboqir**

■ **Client: Hitach**

Scope of Work:

- Supply cable trays
- Cable routing



COLAS RAIL

■ **Project: Metro Aboqir**

■ **Client: Colas Rail**

Scope of Work:

Installation of:

- RMUs & transformers
- Panels & battery charge
- Control cables between all equipment & PLC Panel
- MV cables between RMUs & transformers
- Cable trays for LV & control cables
- Bonding & earthing

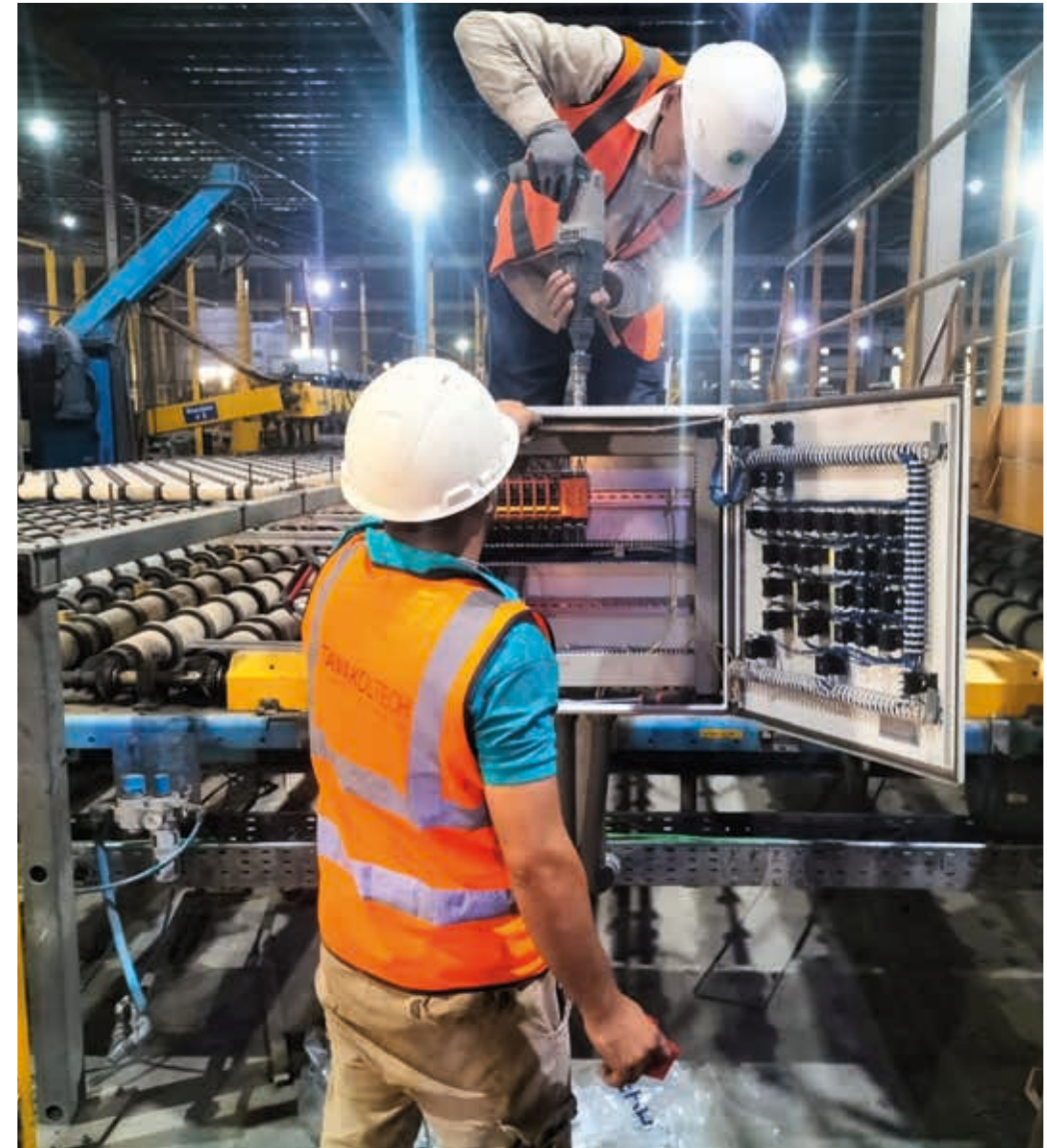


■ **Project: CTR Electromechanical**

■ **Client: Sphinx Glass Factory**

Scope of Work:

- Preparations, demolition and full installation works all executed with precision and efficiency.



■ **Project: I Learn Schools Cosmic Village 6th October**

■ **Client: IBS Mobica Subsidiary**

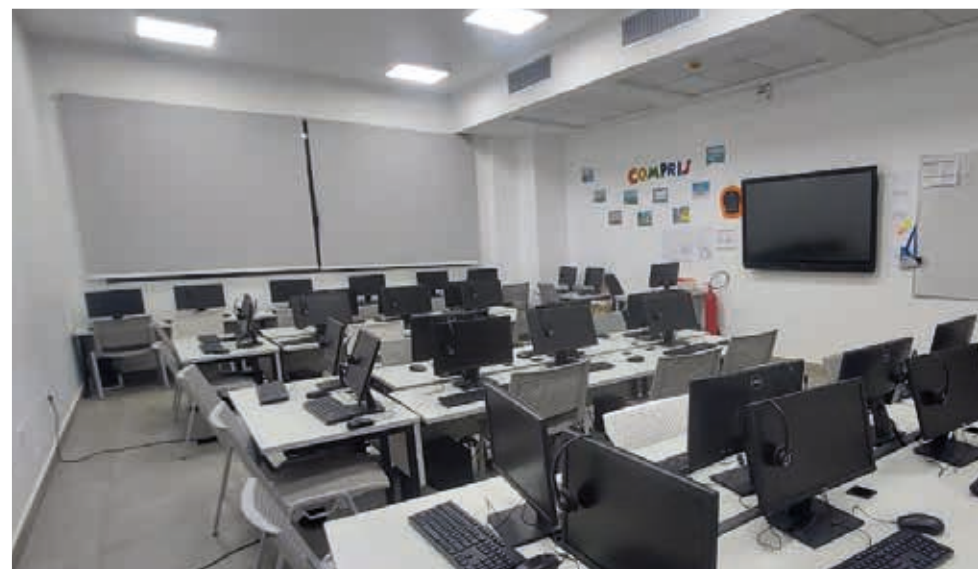
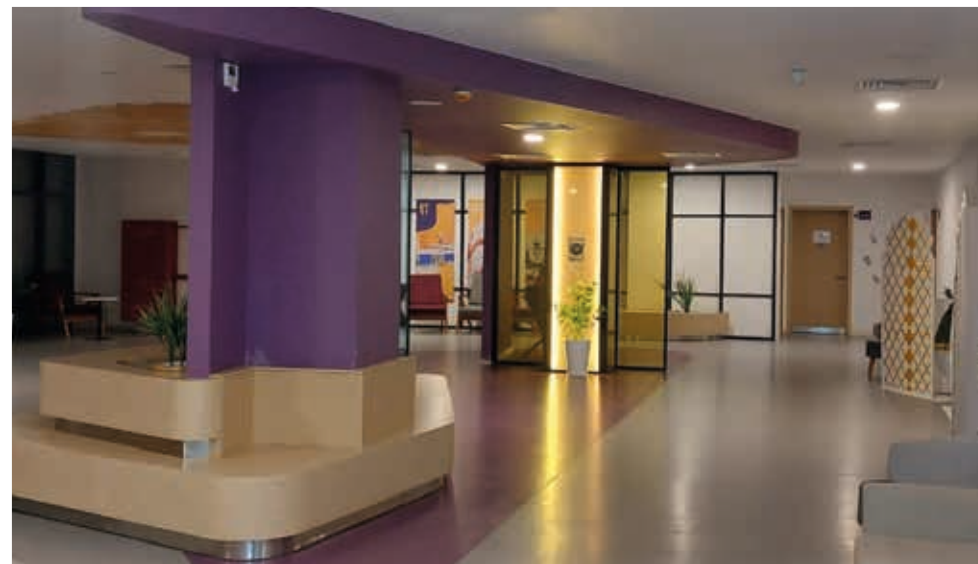
Scope of Work:

Electrical subcontractor for two schools.

Engineering, supply and installation of

- Main and Auxiliary LV Panels
- Diesel generator
- LV & MV cables
- Cable trays and routing
- Wiring devices
- Raceways
- Lighting fixtures & poles
- Earthing system
- UPS

Light current systems (fire alarm, CCTV, sound system, data system, LC trucking)



■ **Project: Exterior Lighting Works**

■ **Client: Sofitel**

Scope of Work:

- Executed the full instalation scope of all the works.
- Facade lighting



■ **Project: Japanese University Faculty of Engineering
Borg El-Arab**

■ **Client: Mobica**

Scope of Work:

- Electro-mechanical subcontractor of project
1st fix phase1
- Engineering Supply and installation the following
Equipment
- Cable trays
- PVC & EMT Piping works
- Earthing system
- HVAC ducting system



- **Project : Administration Building**
- **Client: Modern Interiors / B.Tech**

Scope of Work:

Electrical subcontractor for B.Tech Administration Building
Engineering, supply and installation of

- Main and Auxiliary LV Panels
- LV & CT cables
- Cable trays and routing
- Wiring devices
- Raceways
- Lighting fixtures
- Earthing system

Light current systems (fire alarm, CCTV,
sound system, data system, LC trucking)



■ **Project : Cooler Cable Trays Re-Routing**

■ **Client: Suez Cement**

Scope of Work:

Supply and Install New Set of:

- Junction boxes.
- Cable tray , pipes & cable gland.
- Steel supports, cable accessories and set of control cables to change the existing clinker transport cable route from the underground cable tunnel to be pulled outside.
- Upgrade 250 MCC drawers.
- Modification the drawers doors.



■ **Project: Petro Chemical New Solar Energy Plant with Total Capacity of 100KW**

■ **Client: IFF**

Scope of Work:

- Electro-mechanical subcontractor of project phase1 (1st fix)
- Engineering supply and installation the following equipment
- Cable trays.
- PVC & EMT piping
- works.
- Earthing system.
- HVAC ducting system.



■ **Project: Genova compound "Shiekh Zayed City"**

■ **Client: Eastern Developments**

Scope of Work:

Supply & Install the electrical network infrastructure for Genova compound "Shiekh Zayed City" which include but not limited to:

- MV network & MV panels
- Transformers "TRs" & Ring Main Units "RMUs"
- LV network & LV panels
- LV distribution boards
- MV & LV Cables
- Grounding system
- Testing, Commissioning & Startup



■ **Project: Monorail EON project**

■ **Client: Vodafone**

Scope of Work:

Supply and install first fix EMT conduits for Signaling Networks.



■ Project: High-Speed Train Project

■ Client: Siemens

Scope of Work:

The scope is executed across the project phases (engineering, delivering/manufacturing, installation, and T&C) in line with approved project requirements and interfaces with the customer and other stakeholders.

- BMS Panel Engineering.
- Panel Manufacturing & Delivery.
- Factory Acceptance Testing (FAT).
- BMS System Integration.
- Installation & Site Works.
- Instrumentation Works.
- Testing & Commissioning (T&C).
- Interface Coordination with Customer & Stakeholders.
- Compliance with Approved Project Requirements and Specifications.
- Handover & Final Project Support.



■ **Project: MEP Scope of work with Gila**

■ **Client: High speed Rail JV(Elsewedy + Orascom + Hassan Allam)**

Scope of Work:

- CRAC Unit Installation – UNIFLAIR Computer Room Air Conditioning units across 4 HSR Green Line stations.
- Locations – El Alamein, Ras El Hekma, Sidi Abd Elrahman, and El Dabaa stations.
- Piping Installation – Refrigerant/drainage piping and associated connections.
- Cable Tray Installation – Cable containment and routing works.
- Electrical Connections – Power and control connections for CRAC units.
- Associated MEP Works – Supporting mechanical, electrical, and plumbing works within IT/Control Rooms.
- Testing & Commissioning (T&C) – Site testing and commissioning of installed CRAC systems.
- Scope Boundary – Installation works only under Tawakol Tech; Engineering & Procurement are under GILA scope.



■ **Project: Talkha Generating Station**

■ **Client: Egyptian Electricity Authority EEA (Elsewedy)**

Scope of Work:

Design, engineering, manufacturing, testing, delivery, installation and commissioning on turnkey project basic For 3 Circuits and supply the national grid with 750MW

Project Description:

Connecting Talkha new power plant 750MW to the existing 220KV GIS switchyard by underground power cables XLPE 220KV



■ **Project: Abo Kir Badr 340 KV 500 KM single circuit OHTL**

■ **Client: Egyptian Electricity Authority EEA
ELSEWEDY / COBRA**

Scope of Work:

Design, engineering, manufacturing, testing, delivery, installation and commissioning on turnkey project basic for single circuit 500KV OHTL including two Nile crossings

Project Description:

Connecting Sidi Krir power plant to Badr nearby 10th of Ramadan city 500KV switchyard by OH 500KV single circuit power Line



■ **Project: North Sudan**

■ **Client: National Electricity Corporation, NEC-Sudan (ELSEWEDY)**

Scope of Work:

Design, Engineering, Testing, Supplying, installation and commissioning on turnkey project basis OHTL 33kV and 11kV/33 substation

Project Description:

Over Head transmission line 33kV and 11kV/33 substation at North, Sudan state on turnkey basis



■ **Project: River Nile Sudan**

■ **Client: National Electricity Corporation, NEC-Sudan (ELSEWEDY)**

Scope of Work:

Design, Engineering, Testing, Supplying, installation and commissioning on turnkey project basis OHTL 33kV and 11kV/33 substation

Project Description:

Over Head transmission line 33kV and 11kV/33 substation at North, Sudan state on turnkey basis





■ **Project: Supply of Distribution Materials Ethiopia**

■ **Client: National Electricity Corporation, NEC-Sudan (ELSEWEDY)**

Scope of Work:

Supply of Distribution Transformers kV 0.4/33 and kV 0.4/15
 - Supply Spare Parts for MV Switchgear - Supply of ABC Cables
 - Supply of AAAC conductor

Project Description:

Supply of Distribution Materials value of 28M\$



■ **Project: Supply of Transmission Towers**

■ **Client: Al-Gohary Company**

Scope of Work:

WPS3/WPS1 Overhead Interconnection Lines - kV 66



■ **Project: Dahshour Connection**

■ **Client: Elsewedy Electric**

Scope of Work:

Conversion of a section of the Cairo- 6th of October
kV 220/500 overhead transmission line to underground
cables Dahshour connection

Project Description:

Double-Circuit kV 220 Gantry



■ **Project: Al-Kharafi National for Development Projects**

■ **Client: Al-Kharafi**

Scope of Work:

66 kV High-Voltage Transmission Towers

Project Description:

New Delta 66 KV Overhead Line



■ **Project: 66kV High-Voltage Transmission Towers**

■ **Client: El-Sad El-Aaly for Electrical Projects (HADIBELCO)**

Scope of Work:

Supply of Double-Circuit, Twin-Conductor Transmission Towers- 66 KV

Project Description:

66kV High-Voltage Transmission Towers



■ **Project: Connection of Tahrir Badr Substation**

■ **& Client: Wadi El-Nile Company for Contracting Real Estate Investments**

Scope of Work:

Connection of Tahrir Badr Substation to TS4 Substation
Connection to TSS7 Substation

Project Description:

220 kV High-Voltage Transmission Towers



DESIGN SITE SUPERVISION

1. Badr El-Din Sites Lighting and Earthing Protection Systems Western Desert
2. Techno Gulf Earthing and Lighting Protection Project At Red Sea
3. EXIT10 at Riyadh7 Mall Internal SPD System
4. COCA-COLA Assuit Solar System Complete Design A Selectivity Study
5. NCIC Establishment of Fertilizers Storage Area & Facilities at Ain Sukhna Port with ABB & Petrojet Including:
 - Complete Electrical Power and Utilities Design and Control Wiring
 - Power System Analysis and Selectivity Study
 - Complete Light Current Systems
 - Earthing System
 - Lightning Protection System
6. Scitra Factory Infra Structure for Electrical System at 6th of October
 - Complete Electrical Power and Utilities Designs and Control Wiring
 - Power System Analysis and Selectivity Study
 - Complete Light Current Systems
 - Earthing System
 - Lightning Protection System
7. Zeta Pharma Sadat Planet, Complete Electrical Designs Including
 - Complete Electrical Power and Utilities Designs
 - Power System Analysis and Load Flow
 - Complete Light Current Systems
 - Earthing System
 - Lightning Protection System
8. Sonker Project
 - Technical Management with ABB
 - Selectivity Study for ABB
 - Interconnection Wiring Detailed Drawing for ABB and Petrojet

MEASUREMENTS, TESTING & COMMISSIONING

1. Gabor Complex Measurements
2. Earthing Measurements for National Bank
3. SCIB Factory 6th of October Planet MV and LV Networks Testing
4. East of Port Said Port Electrical System, Including All The Medium Voltage Network
5. Multi-National Forces Power Supply from Utility for Al Gaura Capm
6. Bayty Power Network
7. Japanese Embassy in Maadi
8. Cairo West Base Electrical System Upgrade
9. Dry Port MV Cables Testing
10. Measurements and Harmonic Analysis for Many Industrial Planets
11. Academia at Alexandria Power System MV & LV
12. Fayed AICI Power Source Testing MV & Power TR



O&M PROJECTS **REFERENCE HIGHLIGHTS**

■ **Project: Maintenance Contract for power supply stations EIS & SER**

■ **Client: Alstom**

Scope of Work:

MODERNIZATION OF SIGNALING SYSTEM

EIS, SER SUBSTATIONS:

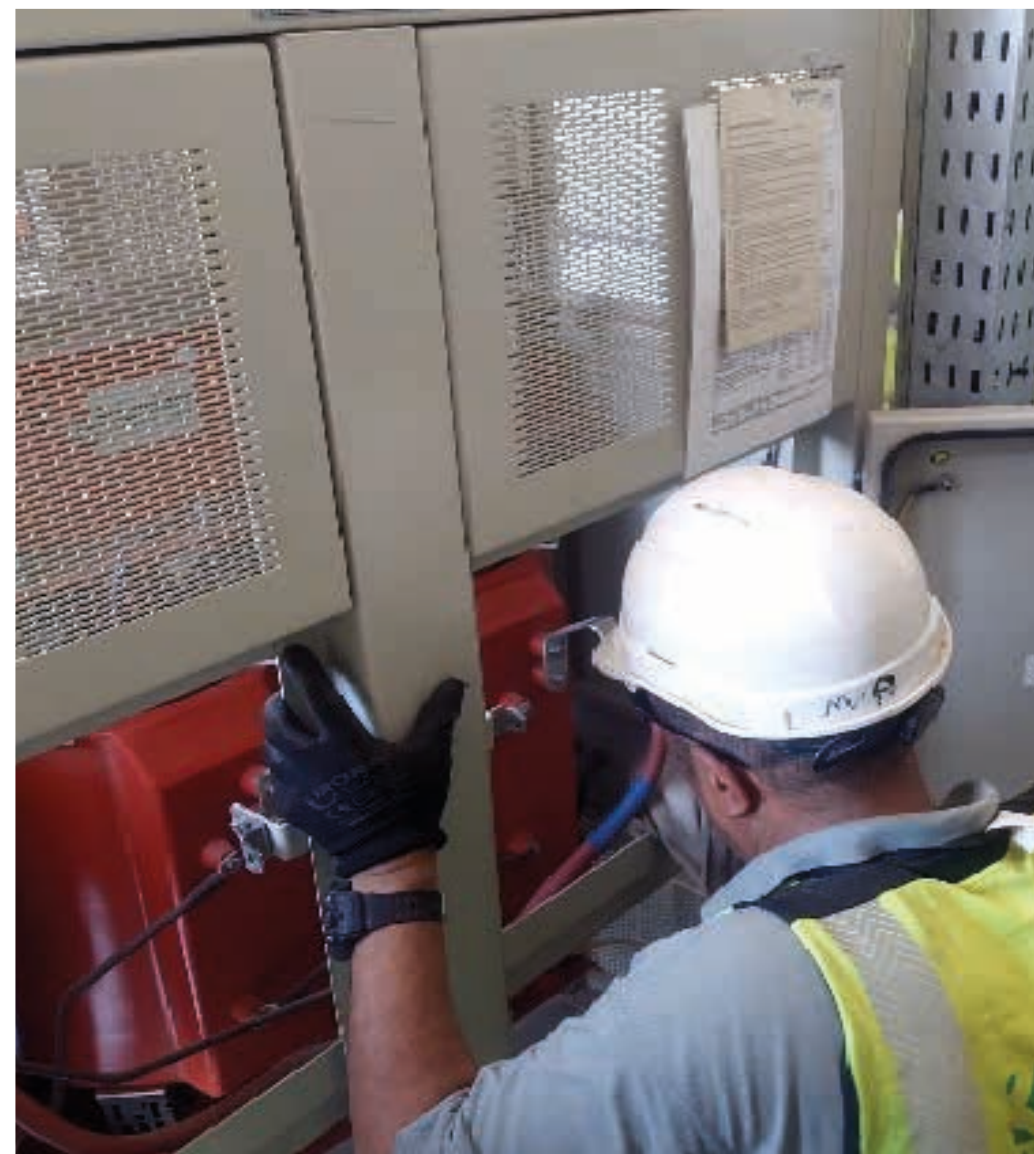
- Modernization of signaling system - EIS, SER substations:
- Maintenance & Testing MV Switchgear
- Maintenance & Testing LV Switchgear
- Calibration MV Protection Relays
- Maintenance power transformers
- Power up of SER 01
- Repair of 3 UPS Units

Power Quality Analysis- Fashn S/S:

- Power Quality measurements for Transformers outgoing feeders BY Power Quality Analyzer Fluke 1775.

EON - CABLE TRAYS SCOPE:

- Supply and install of cable trays for the depot of NCC Cairo Monorail.



■ **Project: Transformer Oil Analysis**

■ **Client: Titan**

Scope of Work:

- Complete chemical & Physical troil analysis.
- Total dissolved gases oil analysis test



■ **Project: Annual Maintenance Contract of power supply stations | Cairo-Alexandria line- Cairo Metro Line 4**

■ **Client: Hitachi**

Scope of Work:

Preventative maintenance:

- Maintenance & testing of dry transformers.
- Maintenance & testing of RMU panels (LBS cells + MVCB /RMU).
- RMU panels testing (2 LBS cells + 2 MVCB /RMU).
- Maintain LV - ATS panels.



■ **Project: MV & LV Circuit Breaker Repair**

■ **Client: Sanmar**

Scope of Work:

- Repair MV circuit breaker 6.6 KV.
- Repair LV circuit breaker 600 A.



■ **Project: Plant Electrical Installation Project**

■ **Client: Nissan**

Scope of Work:

Supply and installation the following equipment:

- BUS-BARS 2000 AMP.
- local LV panels.
- Bas-bars feeding of welding guns.
- Cable trays



■ **Project: Transformer Oil Analysis**

■ **Client: Lafarge**

Scope of Work:

- Complete chemical & physical oil analysis.
- Total dissolved gases oil analysis test.




شركة مصر بني سويف للأسمنت ش.م.م
MISR BENI SUEF - CEMENT CO. S. A. E

■ **Project: Electrical Equipment Testing**

■ **Client: Misr Beini Suef Cement**

Scope of Work:

- Transformer oil testing (50 samples).
- Motor vibration testing (25 motors).
- MV circuit breaker testing (15 MV CB).
- Earthing system test of coal mill area.



■ **Project: Transformer Repair & Measurement**

■ **Client: Misr Beini Suf Cement**

Scope of Work:

- Transformer oil testing (50 samples).
- Motor vibration testing (25 motors).
- MV circuit breaker testing (15 MV CB).
- Earthing system test of coal mill area.



■ **Project: Motors Repair**

■ **Client: Misr Beini Suf Cement**

Scope of Work:

- Rewinding and bearing change of 14 low voltage motors.



■ **Project: Measurement in Ezz Dekhila Steel plant**

■ **Client: Air Liquide**

Scope of Work:

- Plant thermograph survey.



■ **Project: Maintenance Contract**

■ **Client: Ezz Steel**

Scope of Work:

- Datacenter UPS maintenance



■ **Project: Datacenter Project**

■ **Client: Telecom Egypt**

Scope of Work:

Supply and installation the project following equipment:

LV panels for feeding the information center

- LV cables to connect panels, supply air conditioners, and connect UPS system Earthing system for both "racks - raised floor]pedestal- data trunk", GIT earthing system (Isolating transformer) and earthing system of power panels - power racks
- Floor boxes, including power sockets for feeding data racks.
- UPS system including batteries and STS(static transfer switch) system, GIT (Isolating transformer), THM (total harmonic management).
- Emergency power off system (EPO).
- Emergency lighting system including the control.
- panel, emergency exits and CEAG lights.



■ **Project: Transformers, MV & LV Switchgear Maintenance & testing**

■ **Client: Hilton**

Scope of Work:

- Maintenance & testing MV circuit breakers.
- Maintenance & testing LV circuit breakers.
- Calibration MV protection relays.
- Maintenance power transformers including oil changing.



■ **Project: LV Switchgear Maintenance & Testing**

■ **Client: Dusit Thani Lakeview**

Scope of Work:

- Maintenance & testing LV switchgear.
- Replace defected parts.
- The rmograph survey.
- Supply & install 4 power meters.



■ **Project: MV Switchgear Maintenance & Testing**

■ **Client: Steigenberger Alcazar**

Scope of Work:

- Maintenance & testing MV circuit breakers.
- Calibration MV protection relays.
- Supply spare parts for SM24-6 switchboard.



SAVOY
HOTELS & RESORTS

■ **Project: Transformers Maintenance & testing**
LV Switchgear Evaluation

■ **Client: Savoy Hotel**

Scope of Work:

- Maintenance & testing
- Power transformers.
- OIL analysis
- Hermograph Inspection.
- Supply & install MDB panels.



■ **Project: LV Switchgear Maintenance & Testing**

■ **Client: NBE Bank**

Scope of Work:

- Maintenance & Testing LV Panels.



■ **Project: MV Switchgear Maintenance & Testing**

■ **Client: CIB Bank**

Scope of Work:

- Maintenance & testing MV circuit breakers.
- Calibration MV protection relays



■ **Project: Installation UPS Units**

■ **Client: HSBC Bank**

Scope of Work:

- Install, and commissioning of new UPS units.



بنك عوده
Bank Audi

■ **Project: MV & LV Switchgear Maintenance & Testing**

■ **Client: Bank AUDI**

Scope of Work:

- Maintenance & testing MV circuit breakers.
- Calibration MV protection relays.





■ Project: Cable Trays Works

■ Client: Porsche

Scope of Work:

- Panel installation
- Earthing system



■ Project: Plant Electrical Installation Project

■ Client: General Motors Egypt

Scope of Work:

Supply and installation the following Equipment:

- MV switchgear 22kV
- Dry Transformer 2500 KVA, 22 KV
- Main Distribution and LV panels.
- LV & MV cables & trays.
- Power factor improvement panels.
- Harmonics Improvement Panels
- Earthing system.



■ **Project: MV Protection Relays**

■ **Client: Solariz Egypt**

Scope of Work:

- Installation, Commissioning & Testing of Over/Under-Frequency Protection Relays.



■ **Project: Benban solar park**

■ **Client: Gila Solar**

Scope of Work:

- Testing power transformers



■ **Project: Electrical panels, Transformer and Earthing**

■ **Client: Lesaffre Egypt**

Scope of Work:

- Maintenance of the Electrical Panels
- Transformer Oil DGA & Chemical analysis
- Bonding earthing measurements.



■ **Project: Maintain and Test Circuit breakers**

■ **Client: Amreyah Building Materials**

Scope of Work:

- Test And Maintain MVCB - Qty. 50
- Test And Maintain LVCB - Qty. 18



■ **Project: Electrical Substation Maintenance – NBE Cairo Plaza**

■ **Client: Kharafi National SAE – Egypt**

Scope of Work:

Maintenance and testing of MV witchgear

Maintenance and testing of LV switchgear

Calibration and testing of MV protection relays

Inspection and maintenance of power transformers



■ **Project: Electrical Substation Maintenance – Kayan**

■ **Client: EMC**

Scope of Work:

- Maintenance and testing of MVswitchgear

- Maintenance and testing of LV switchgear

- Inspection and maintenance of power transformers



■ **Project: Maintenance – ENPPI OGS Building Station**

■ **Client: ENPPI OGS**

Scope of Work:

- Maintenance & Testing of MV Switchgear
- Maintenance & Testing of LV Switchgear
- Calibration of MV Protection Relays
- Maintenance & Testing of Power Transformers

**MIDAR**

■ **Project: Mostakbal City**

■ **Client: Midar Control**

Scope of Work:

Power transformersr Maintenance & Testing
Maintenance & Testing Transformers



■ **Project: Maintenance of TR, ATS & MDB Panels**
Exchange Building

■ **Client: ALPHA Design & Networking**

Scope of Work:

- Maintenance of Transformers
- Maintenance of LV Circuit Breakers
- Maintenance of ATS Panels



■ **Project: Diesel Generator Maintenance**

■ **Client: Aramex**

Scope of Work:

- Maintenance of Generators at BAA and AMC
- Supply of Battery Chargers



■ **Client: Birla Carbon Egypt**

Scope of Work:

PM for Generator TG_3

- Testing of Protection Relays of TG_3 – (ABB EM545)
- Testing of CTs & PTs of Circuit Breaker & Generator
- Testing of TG_3 Circuit Breaker 12KV, 2500A – AREVA
- Generator Windings Insulation Resistance Test

Transformers, MV & LV Switchgear Maintenance & Testing

- Maintenance & Testing of MV Circuit Breakers
- Maintenance & Testing of LV Circuit Breakers
- Calibration of MV Protection Relays
- Maintenance of Power Transformers, Including Oil Changing

Maintenance of MV C.B. Poles of Outgoing TR PMCC B

- Maintenance & Testing of 3 (Three) Poles of MV Circuit Breakers

Preventive Maintenance for GRID Power Transformer and Circuit Breakers

- Maintenance & Testing of GRID Power Transformer – 10 MVA, 6.6/11 KV
- Testing of GRID Circuit Breakers – 6.6 KV Siemens & 11 KV ABB
- Testing of CTs & PTs of Circuit Breakers

Transformer Oil DGA Testing & Oil Filtration

- Oil Filtration for (4) Four Transformers – GRID Testing
- Oil Testing for (3) Three Transformers





■ Client: Armed Forces Engineering Authority

Scope of Work:

RUWAISAT Project

Supply and installation the following Equipment:

- MV Switchgear 22 kV, 12 kiosks and 300 KVA generator.
- Main and Auxiliary LV panels for the pump station.
- MV & LV cables with a total length of 20 km.
- Lighting poles for the pump-building area.
- Earthing systems for the previous items

Greenhouses Project

Supply and installation the following Equipment:

- MV switchgear 11kV
- 2 transformers of 1500 KVA, 11 KV
- Main and Auxiliary LV panels.
- LV & MV cables & Earthing system

Al-MANHAL Hotel Project

Supply and installation the following Equipment:

- MV switchgear 11kV
- 2 transformers of 1500 KVA, 11 KV
- Main and Auxiliary LV panels.
- LV & MV cables & Earthing system



Qouta water station Project

Supply and installation the following Equipment:

- MV switchgear feeding 11 kV pumps
- MCC panels and LV panels for the water plant.
- 2 x 200 KVA service transformers.
- LV cables and control cables
- Earthing system



TELECOMMUNICATIONS SYSTEMS PROJECTS REFERENCE HIGHLIGHTS

EGYPT - CAIRO MONORAIL



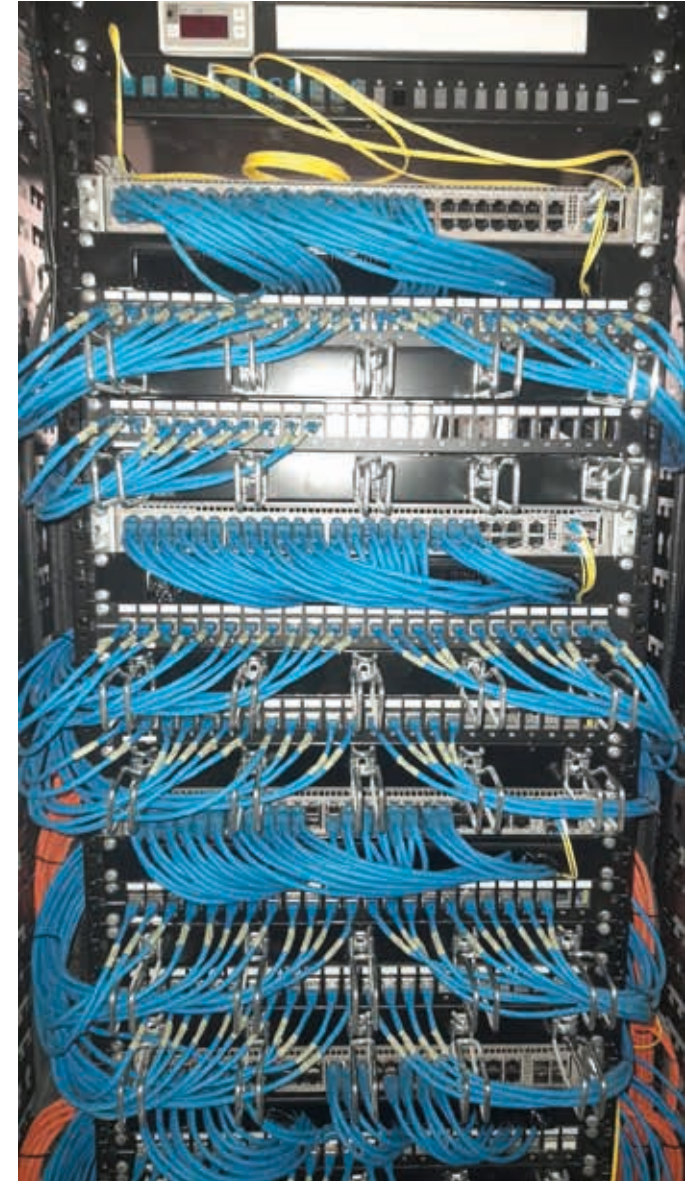
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I LEARN SCHOOLS



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EGYPTIAN ARAB LAND BANK (EALB)





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