















So simple really - the fundamental basic principle behind all of our dealings here at ODASCO, by listening carefully we hope to understand our clients needs.

# CEO message.

After a relation of twenty years with ODASCO, I feel very privileged to be writing this message as the chief executive officer.

Over the years, the endlessly growing customer confidence has brought the company to undertake medium and large size turn-key projects requiring Engineering, Procurement Designing, Installation and commissioning for Plant industries, City infrastructure, Governmental and Commercial buildings.

The proficient and extensive experience of our team and our relentless win-win approach towards our clients is aimed at the total customer satisfaction in provisions of Performance, Quality and being prompt in executing the services.

We endeavoured an idea two decades ago to create innovation and share this knowledge. We have yearned to provide an incomparable client service and have successfully lived our core intentions by being excellent in our commitments to the Customer.

Looking further we want to remain focused on speeding our growth and develop strength by helping to bring positive changes in the environment we live and share our knowledge. We are anxiously exuberant in letting the best still to come from us.

*Best regards* Saad Mohammad Al Abed Odeh President & CEO



# company vision.

### To be the leaders in innovative Automation and Electrical services.

#### CORE VALUES

ODASCO prides itself on a set of shared core values and commitments that together form the foundation to everything we do. The first initial of each of these values together spell the word "MARBLE"

### Make customers successful

Delivering what our customers need, when they need it, is the primary goal of ODASCO. We are committed to make our customers successful in their business, as the basis for long-term success in our business.

### Attract and develop great people

ODASCO aims to offer its people a superior career development experience that rewards results, enterprise, coaching and teamwork.

### Reach higher

ODASCO people set stretched goals for themselves to drive business growth and personal career fulfillment. We know from experience that bold thinking and bold action will bring about extraordinary results.

### Believe in practical solutions

ODASCO is driven by shop-floor practicality and a positive "can do" mindset. We seek to turn innovative ideas into cash flow by working quickly as a team and refusing to be stalled by complexity

### Lead by example

ODASCO believes that good corporate citizenship requires uncompromising standards of integrity, openness, and fairness. We are committed to demonstrating leadership wherever we do business through the promotion of a safe and healthy environment for our people and the local community.

### Excel in execution

ODASCO's customers expect the highest standards of quality and performance. We work not only to meet those expectations but also to exceed them through continuous cycles of learning.

# Listen, Understand, and discuss the implementation.

*Listening to the requirements and needs of our clients is paramount to ensure the success of every project.* 



# 25 YEARS of history.

### 1994 ODASCO FIRST OFFICE

The first office was established in June 1994 in Amman, Jordan.

# 1994

### 1998 HEADQUARTER IN DUBAI

ODASCO relocated it's main office from Amman to Dubai, UAE.

1998

2000

# 1995

### 1995 BRANCH IN QATA<mark>R</mark>

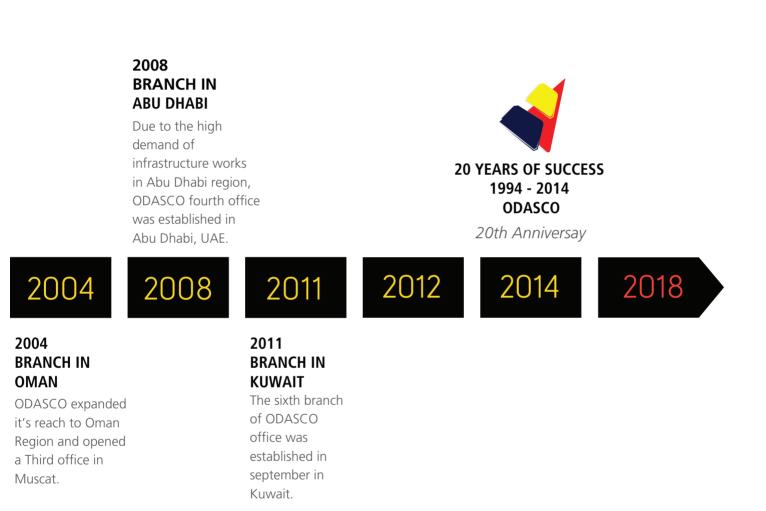
ODASCO expanded it's reach and opened a branch in Doha, Qatar.

ara

BDAN

Riyadh

SAUDI



ODASCO is a business organization, which instituted its operation two decades ago in focusing and catering to the requirements of the infrastructure, Oil & Gas and communication sector mainly in Electrical LV and Extra LV covering but not limited to Automation, Instrumentation, ELV systems, process control. Odasco has developed its own solution for Leak detection and renewable energy

Our wide range of activities has covered several countries in the region including all Arab gulf states.

# our capabilities.

### AT PRESENT ODASCO PROUDLY OFFERSTHE FOLLOWINGSERVICES

### Industrial Automation

- Distributed Control System (DCS) / PLC
- SCADA & instrumentation
- Pipe Leak detection system

### Electrical works

### (Low, Medium & High voltage)

- Low, Medium, & High voltage
- MCC and Switch Gear
- Overhead Line
- Drivers and light fitting

### Extra Low Voltage

- CCTV and Security systems
- BMS and IBMS
- Lighting Control system

### Renewable Energy & Smart City Solutions

- Solar PV EPC Works
- Energy storage
- Renewable Energy development
- Telecom Asset management
- Intelligent Air-conditioning system

# Telecommunication infrastructure

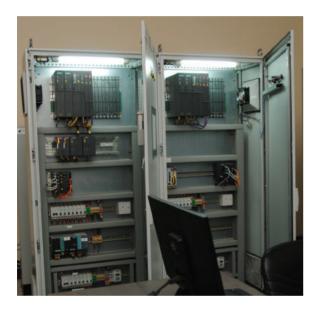
- Fiber Optic networks
- Wi-Fi Networks
- Structural cabling

# industrial automation.





## SCADA system



# Distributed Control System (DCS) and SCADA

With more than Twenty years' experience, ODASCO is a leader in control system integration and control system solution optimization. We provide the best control solutions via variety of industrial control system arts, that suit different industries and applications.

### SCADA system

We provide SCADA software programming for water, wastewater, industrial and manufacturing. We are specialized in PLC programming, HMI application development, historical data management and reporting systems. We use standard programming blocks and languages as per applications vendor standard. Moreover, and as a system integrator, every project is designed to our customer needs and is therefore unique.



### Our range of services include:

- Performing FEED and feasibility studies
- Writing detailed design specifications for new and replacement SCADA systems
- SCADA system recommendations
- Design, installation & commissioning of SCADA systems
- Reverse engineering services for legacy systems

- Legacy system support and migration
- Provision of SCADA engineers for a day, week, year etc.
- SCADA modifications & system validation services
- Project management
- SCADA consultancy, training and service level agreements

ODASCO services include detailed design drawings for instrumentation and control panels, motor control centers, P&IDs, I/O loops, power distribution, networking and communications.

### Advantages of using ODASCO's SCADA service:

- Improve reliability: Our designs focus on providing primary and backup monitoring and control around the clock, using different redundancy hardware and software options at all levels.
- **Decrease costs:** We design centralized SCADA solutions that help you significantly reduce operation and maintenance costs.
- **Protect existing investments:** We consider your future expansion when designing a SCADA system, making sure to incorporate a migration path that will enable you to meet growing population and regulatory demands.
- Single-source solution for your project: We provide you the entire SCADA package fully integrated, consistent and free of incompatibility issues.
- DCS system: The range of services offered are from large DCS/PLC system & network installation and programming, to small modifications and fine tuning of DCS/ PLC controlled plants in the industrial automation and process controls industry.
- Qualified staff: staff with up-to-date technical knowledge that enables them to relate software and hardware solutions to real-world engineering applications.





### Leak Detection System

ODASCO real time leak detection software developed by Hydraulic and I&C Engineers based on diverse hydraulic studies and calculations, that are generated and anticipated from pressurized or gravity pipelines. ODASCO leak detection system reduces false alarms while still detecting the leaks or imbalance flow through the pipeline.

Using the data provided from the available field instruments (such as: Flow meter, Pressure, acoustics Sensor, temperature...etc.), ODASCO Leak Detection Software has the capability to monitor the pipelines state continuously under all kinds of operating conditions, suchas: flowstart, intermediate MOV open/close, flow stoppage and with no flow in the pipeline.

### Application

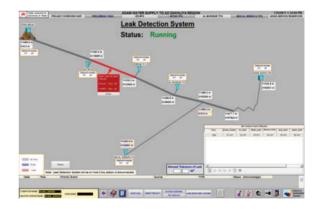
ODASCO Leak Detection system covers up the following applications:

- Water transmission, Oil and Gas Pipelines.
- Water chiller plant and distribution lines.

### **ODASCO LDS Services**

ODASDCO leak detection system is not limited to software analysis, we can provide full Site survey, case study and turnkey solutions for each individual case, as below :

- Hydraulic/Modulation study for each case/ application.
- ODASCO LDS software can be installed on different types of SCADA systems.
- Testing, commissioning and training services.





### OMNI - SENSE

### Fiber Optic Leak Detection System

ODASCO offers a second type of Leak detection System manufactured and supplied by Omni-Sense, using the buried fiber cable beneath a liquid pipeline or buried above a gas pipeline system, the fiber optic system

LDS offers a comprehensive solution to pipeline integrity monitoring and inspection, providing pipeline leak early warning through ground movement and intrusion detection over the entire length of the pipeline through Fiber Optic Sensors.

### Technology

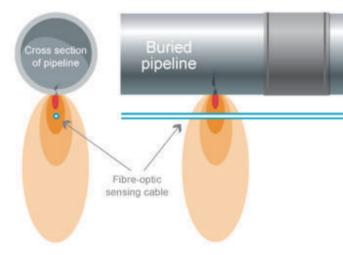
Leakages are associated to abnormal local temperature changes. The Fiber Optic system can detect significant local temperature changes (detection limit < 0.1%).

### Advantages

- Localization with meter accuracy and with no dead zones.
- Multiple additional fibers for communication purposes
- Compatible with direct burial

### Application

For new pipelines where accurate leak detection and localization is essential in order to prevent loss of valuable assets and negative impact to environment.







### **INSTRUMENTATION**

Through our integrated instrumentation department we deliver complete projects and maintenance services to companies throughout the Middle East.

### Applications

To achieve the optimal performance, we are using the most famous brands of instruments in West Europe, Japan and the US to cover the following fields:

- Water Transmission Pipeline.
- Desalination Plants & Oil Refinery.
- Factory. (Food, Chemical, Steel, Petrochemical...etc.).





### Services

ODASCO provides turnkey solutions in instrumentation works, including:

- Designing the instrumentation network as per the hydraulic study.
- Supply, Site installation and generating hookup drawing to achieve the optimum site installation with minimum duration.
- Testing, commissioning and training services.
- Maintenance service contracts for different types of instruments and Actuators.

# electrical works (Low, Medium & High Voltage)





## ELECTRICAL WORKS

ODASCO Electrical department offers complete electrical works services. ODASCO has the capability to execute turnkey projects in the low voltage to medium voltage domain.The scope of work includes turnkey solutions, such as, designing, supplying, testing and commissioning as per the international standards and client specifications.



Below are the following specialized Electrical services that ODASCO is capable of :

- Design, supply, installations, testing and commissioning for:
  - Low & Medium Voltage switchgear works.
  - Overhead line (OHL) works.
  - Motor Control Centers.
  - Diesel generators & Transformers
  - Earthing and Lightning protection systems.
  - Uninterruptable Power Supply (UPS) systems.
  - DC power supplies
  - Commercial & industrial power distribution panels.
- Supply installations for conduits GI conduits, cable trays and wiring Design, supply, installations, testing, commissioning Excavations, Backfilling, Laying and terminations

for Medium and Low Voltage power cables



# LIGHTING

ODASCO electrical Department utilizes the latest technologies in lighting systems along with installation techniques that ensure safe and long operation of your lighting system.



### Applications:

- Water Transmission Pipeline.
- Street and bridge lighting.
- Hotels, Hospitals and Shopping Centers.
- Residential Buildings and Villas
- Industrial Premises

### ODASCO Lighting services

- Supply and Design as per the client requirements for the light distribution.
- Complete advanced lighting control systems independti or as part of BMS system
- Training and service contracts







Setting the Standards others are trying to follow!

# electrical works (ELV – Extra Low Voltage)

OL

6 0

ODAJCO



# SURVEILLANCE CAMERAS & SECURITY Systems

ODASCO offers turnkey solutions in video surveillance and security systems. Utilizing years of experience with wireless systems, our team at ODASCO can also design and install a separate wireless network for CCTV system requirements, no matter what type of network the cameras are connected, wired or wireless.

ODASCO will always ensure that proper network connectivity and power sources are utilized for successful installation.

Our CCTV and Security control services include:

- Site assessment and system design.
- Project management.
- Turn-key installations.
- Site maintenance including repairs, moves, additions and lens cleaning.

Improve your business's asset tracking with security camera solutions. Features include such as motion detection, advanced analytics, event notification, video retention, and the ability to capture images at night or in inclement weather.





### IBMS - Integrated Building Management Systems

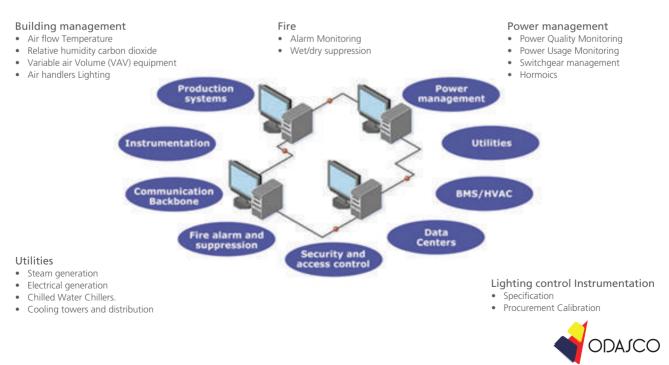
ODASCO has expanded its services in the field of Building Management systems to maximize comfort, productivity, safety and energy efficiency for commercial, residential, institutional, government buildings, hospitals, sports complexes and more.

### Providing an integrated Building system as DCS platform

THE KEYS TO A SUCCESSFUL BUILDING MANAGEMENT SOLUTIONS INCLUDES :

- Integration rather than interfacing of all dissimilar systems in a building
- Real time monitoring and control
- Reliability & Flexibility
- Aninterface/HMI all systems users can and will use
- The ability to record, access and use historical information

### Building systems that can be automated and integrated for the following :





# LIGHTING CONTROL Systems

Quality lighting is an important aspect of our daily life, and is often taken for granted.

- Light control is the ability to regulate the level and quality of light in
- a given space for specific tasks or situations.
- Controlling light properly not only enhances the experience, it helps to save energy by using light when and where it is needed most.

Most commercial spaces are over-lit, leading to wasted energy usage. But over-lit spaces can also affect the productivity of employees.



- By incorporating lighting based on task performance and providing personal control of lighting and shading,
- commercial spaces can realize measurable effects on employee productivity and motivation.
- Employees typically dim the lights when given personal control, further increasing energy savings.

### Workplace Productivity & Efficiency

Optimizing daylight and electric light saves energy and creates a productive, comfortable environment. Light control systems, offered by ODASCO, can also report on energy usage and savings to manage costs down. ODASCO lighting control system has a variety of solutions to improve the quality and efficiency of your work environment.

Our Light Control System services includes :

- Site assessment and lighting system design.
- Procurement and Project management.
- Turn-key installations.
- Training and maintenance contracts.



# renewable energy & smart city solutions





### RENEWABLE SOLUTION

ODASCO Renewable Solutions, leaders in the automation industry & smart city infrastructure, with staff powered by upto-date technologies that can deliver clean & cost saving energy solutions to homeowners, commercial and industrial organizations.

#### Photovoltaic Power Systems

ODASCO renewable energy department will provide you with the right advice; recommending the best green energy products for your specific electricity needs and budget - whether it's the best panels for your situation or perhaps a deep cycle battery suited to your electricity consumption profile.

Offering a proven track record in solar PV component supply, turnkey services and utility-scale solar power plant development partnerships.



### Battery Banks and customized storage cabinets

ODASCO offers different types of stationary battery and charging systems to the Utility market designed for substation / switchgear, generation and other utility applications. Such as:

- Supplying all types of batteries such as; Flooded (wet) lead acid, VRLA (AGM & Gel) & Ni-Cad batteries are available
- Offering full selection of racks, chargers, inverters, battery test equipment & battery room accessories to meet your DC system requirement.



### SMART CITY SOLUTIONS - Municipal assets management

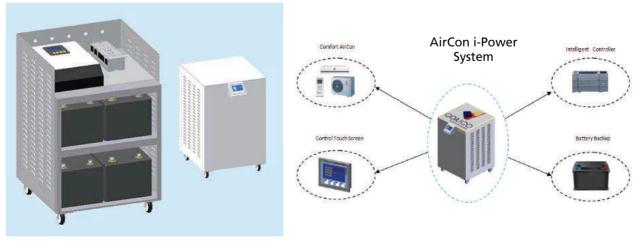
ODASCO Municipal Telecom Infrastructure Assets Management, includes full telecom site management, dark fiber connectivity and network backbone services that uplifts and fosters nowadays cities towards smart city plans. such as :

- Reduce above ground excavation and constructions which causes visual pollution and suboptimal use of real estate.
- Use existing/new underground disposal infrastructure to provide fiber connectivity between telecommunication towers, and other interconnection points.
- Plan, construct and manage FO infrastructure upon municipality or third party requirements.
- Maximize the value of existing municipal assets such as real estate, underground infrastructure.

### AirCon i-Power System

Introducing the ODASCO intelligent Solar AirCon system, that combines both automation Saving system and the latest efficient inverter type AirCon together to deliver an optimum power saving solution.

The AirCon i-Power System powered by Siemens controllers uses available solar energy to trim down the consumption energy of a conventional AirCon. Utilizes the idea of controlling the temperature outside and inside the room where certain algorithms apply to achieve the best efficient model outcome in the Air Condition.







## SMART HOME Systems

### Smart & Green Solutions

ODASCO provides different types of smart & efficient solutions, that can both maximize your assets sales rate in case of developers, or reduce significant power load expenses to end users. Such as private & governmental buildings and home owners.

- Optimizing HVAC system design by reducing the execution cost of HVAC and electrical system, for developers.
- Energy Management System, thus reducing maintenance costs.
- Optimizing the full electrical designs on new buildings and present ones.
- Integrated Building Management System that monitors and manages the operation of HVAC, mechanical services, electrical services, and others.
- Battery Bank Peak Saving Solutions To save Electricity bills in certain peak hours and to back up in case of Electric outage.

### Smart Home System Service

Controlling the Following :

- CCTV system.
- Available Photo Voltaic system.
- Indoor & outdoor Lighting
- Available Air Condition.
- Power monitoring and Improving energy efficiency and sustainability. Peace of mind Override & Absence control.
- Home Intrusion detection.
- Kitchen Gas inlet, in case of Leakage / Switches OFF Gas inlet once you leave home.
- Main water supply, in case of Leakage / Switches OFF Gas inlet once you leave home.

# telecommunication infrastructure

0

# FIBER OPTIC NETWORK

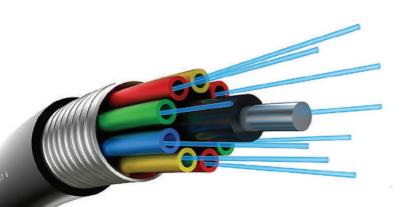
ODASCO as a fast growing organization in Instrumentation and Control has expanded its services to include Fiber Optic technology to accommodate the ever-growing demand for Data communication & Networking solutions.

To realize the objective of having the best standard in Fiber Optic technology ODASCO personnel have gone through extensive training with the instructions from qualified instructors and experienced engineers from Corning & Pirelli Cable Systems.

#### SCOPE OF SERVICES

# ODASCO offers variety of services in the Fiber Optic field :

- Consultancy and full network designs in LAN, WAN solutions, Fiber Optic installation and remote access solutions.
- Providing Full FTTH, FTTX and GPON solutions to both residential and industrial fields.
- Conduit rodding, Cleaning, and Cable pulling
- Underground conduit construction
- Supply of all Fiber Optic related equipment.
- Testing, commissioning and Training Services.









### Fiber Optic technology in Sewer Lines

In an existing infrastructure where there is new requirement for Fiber Optic Network ODASCO offers a very unique Solution for installing Fiber Optic cable in the existing sewer& Water Surface Drains. Existing sewer channels are used as a conduit carrying the fiber optic cable, thus costly excavations and time consuming permits for construction work are avoided.

### Method of Installation.

- The host pipeline should be cleaned by using a water jetting truck with automatic water recycling system, that is done by Wiedemann Middle East (a sister company).
- The actual installation begins with an accurate examination of the pipeline using CCTV system.
- Fiber Optic Cable can be settled in the middle of the pipeline or attached to the pipeline upper structure.

### Advantages of using Fiber Optic in pipeline assets.

- Fiber Optic Cable be laid in almost all types of pipelines (sewer and surface drains).
- Underground sewer system is a safe and secure conduit.
- Maximizes the value of the existing assets.
- Unique and innovative way of implementation, which minimizes construction above the ground.
- Quick deployment allows easy planning.









### WIRELESS NETWORKS

Today's wireless networks are more complex and needs to be designed and built to support a variety of applications including real-time location services, asset tracking, video surveillance and VoIP (voice over IP) and much more upcoming future technologies. ODASCO can help you create a network to support any of these applications as either a stand-alone system or as part of a multi-use network.

ODASCO provides turnkey wireless network solutions, including all services and the requirements, project design & procurement to testing and commissioning. We have deployed multiple Wi-Fi technologies, completed upgrades and improved network complexity. You can rely on ODASCO for the products, solutions, services and training sessions in means of network designs and support.

### Our Wireless services includes the following :

- Site Surveys, Radio topology study.
- Coordination, project management, site installation of all related wireless items.
- Pre-delivery integration and testing.
- Antenna mounting and access points connections.
- Verification of Wi-Fi coverage
- Configuration and connection of access points, Backbone LAN, power, firmware, radio information, IP addresses and more.
- Support and service including recommendations for future upgrades of your wireless system



### STRUCTURAL CABLING

ODASCO offers wide range of services in structural cabling field, we handle projects of all sizes, from the simplest service call to the most demanding construction project.

Our veteran team of designers & project managers are well versed in, and strictly adhere to all the latest National Electric Code standards and practices and all installation services are performed by skilled labor to ensure the highest quality workmanship.

All installations are fully tested and certified using the latest test equipment and carry a Lifetime Workmanship Warranty from ODASCO.

ODASCO offers a full complement of voice, data and video structured cabling solutions including:

- Consulting & Design
- Supply & Installation
- Cable Testing, Troubleshooting, Site Assessment & Certification
- CAD Design & As-built Documentation
- Maintenance service contracts



# FEATURED PROJECTS

# Tameer Kuwait Oil Company Head Quarter (Al Ahmadiah, Kuwait)

This project incorporate all BMS and Control subsystems into one general integrated IBMS system based on Siemens PCSv DCS with a single platform that includes the following subsystems:

- HVAC & Chillers
- Electrical system including medium voltage substation.
- Lighting control.
- Water supply and irrigation

Including Design, supply installation testing and commissioning of all electrical works

Client : Kuwait Oil Company

Project Value : \$ 12,900,000

# 500 Km FOC network in Sewer lines (Abu Dhabi, UAE)

Design, Construction and Maintenance of an Enterprise – wide Fiber Optic Cable Network Phase 1 Installation of 500 m FOC network inside sewer lines in Abu Dhabi Island.

Client : Abu Dhabi Water and Electricity Authority (ADWEA)

Project Value : \$ 26,700,000

#### Construction and Maintenance of Fresh / Brackish Water Towers (Al Jahrah, Kuwait)

Our scope of work includes design, engineering, installation, commissioning, trial operation as well as providing the operation and manual of the DCS Control System Centre based on PCS7, Complete services of all electrical works and Field instruments.

Client : Ministry of Electricity & Water in Kuwait

#### Project Value : \$ 1,020,000







### Al Ain Water Tap Off (Al Ain, UAE)

Al Ain Water Transmission Scheme (AWTS) Tap Off 9A (FWTS) Pipeline to Al Hayer Tank (Lot P1) Contract No. N-4381B with Astraco.

Client : Abu Dhabi Transmission and Dispatch Company (TRANSCO)

Project Value : \$ 6,800,000

### Central Desalination Plant at Sur and Water Supply Schemes to Al Sharqia Region (Sur, Oman)

Complete SCADA, Control, Communication and Instrumentation package includes design, supply, installation, commissioning, and training for the complete scope.

- 2 main SCADA Centers.
- 6 main pumping stations with hot-standby RTU's.
- 22 pumping / filling station with RTU's.
- Installation and termination of single mode-12 fiber Optic cables over 330 Km with 1Gbit/sec redundant network.

Client : Public Authority for Electricity and Water

### Project Value : \$ 2,500,000

### Al-Amiri Hospital Expansion

Scope of work includes, procurement, installation, testing, operational and maintenance, spare parts, inclusive of commissioning spares and consumables of the Electrical works, low voltage, special system and BMS System.

Client : Ministry of Health - Kuwait

Project Value : \$ 45,000,000







## CLIENTS



إحــدى شركــات مۇسـســـة البتــرول الـكـويتيــة A Subsidiary of Kuwait Petroleum Corporation



الهيئة العامة للكهرباء والمياه Public Authority for Electricity & Water









هيئة مياه وكهرباء أبوظبحي Abu Dhabi Water & Electricity Authority



بلـديــة فــديــنــة أبــوظــبـي ABU DHABI CITY MUNICIPALITY













شـركة <mark>العين للتوزيـع</mark> Al Ain Distribution Company



#### UAE

Odeh Asalem Automation Systems 1702 Aspect Tower D, Executive Towers, Business Bay, Dubai, UAE Telephone No: +971 4 4548657 Fax No: +971 4 4548607 Email: info@odasco.com

#### OMAN

Oad Alsalam Modern Automation Systems Odasco P.O. Box 276, Postal Code 243 Sultanate of Oman Telephone No: +96824613565 Fax No: +96824613568 Email: info@odasco.com

WWW.ODASCO.COM

#### KUWAIT

Odasco Al Kuwait General Trading & Contracting Co. 6th Floor, Al Anjari Building, Ali Al Salem Street, Kuwait City TelephoneNo: +96522490590 Fax No: +96522490599 Email: info@odasco.com