



# **Company Profile**

**We Establish Values**



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**Looking ahead  
is our success**





## Our History

ISS ELECTROMECHANICAL WORKS” is one of the prestigious company interwoven with the development of the MEP & Low Current Engineering and Contracting industry in EGYPT.

For more than Fourteen years, ISS Electro Mechanical Works has excelled in engineering and executing countless projects in different industrial sectors.

Our commitment to execute projects with highest quality, on schedule and within budget.

With the professional, experienced & devoted workforce and a progressive management the ISS is moving towards a better future.





## Our Drivers

ISS Electromechanical Works result-oriented culture

### It is driven by:

- **Excellence:** We take care of the details that ultimately produce top-tier quality solutions.
- **Professionalism:** Our focus is on the job and client satisfaction.
- **Innovation:** We encourage our team to think outside the box.
- **Continuous learning:** Our team develop their skills through technical and managerial training.
- **Team work:** We support an open exchange of information and resources with our clients and employees.
- **Adaptability:** We ensure that the evolving client needs are met with the highest standards





## **Our Mission**

**Offering our business partner worldwide the professional and innovation services in terms of quality, efficacy and safety.**

## **Our Vision**

**To become the African and Middle East leader in the field of electro-mechanical projects.**



## Our Skills

ISS Electromechanical Works cultivates its success with its multidisciplinary expertise in the complete process of tertiary and industrial facility design and contracting.

Our team's specialized skills are manifested from design review through project management to the final delivery of turnkey projects. Most of our senior engineers and staff have acted as project managers, both in-house and for various international customers interfacing with other engineering firms and contractors.

## Safety

ISS Management believe that personal safety and work place safety are the way to our successes though out the projects proceedings from design review till project completion and handover to client.

Hazard review & task risk assessment and risk mitigation are performed and implemented by specialized team with full involvement of ISS project team and workers.

ISS strive all their efforts to maintain safety culture through out their team & workers.



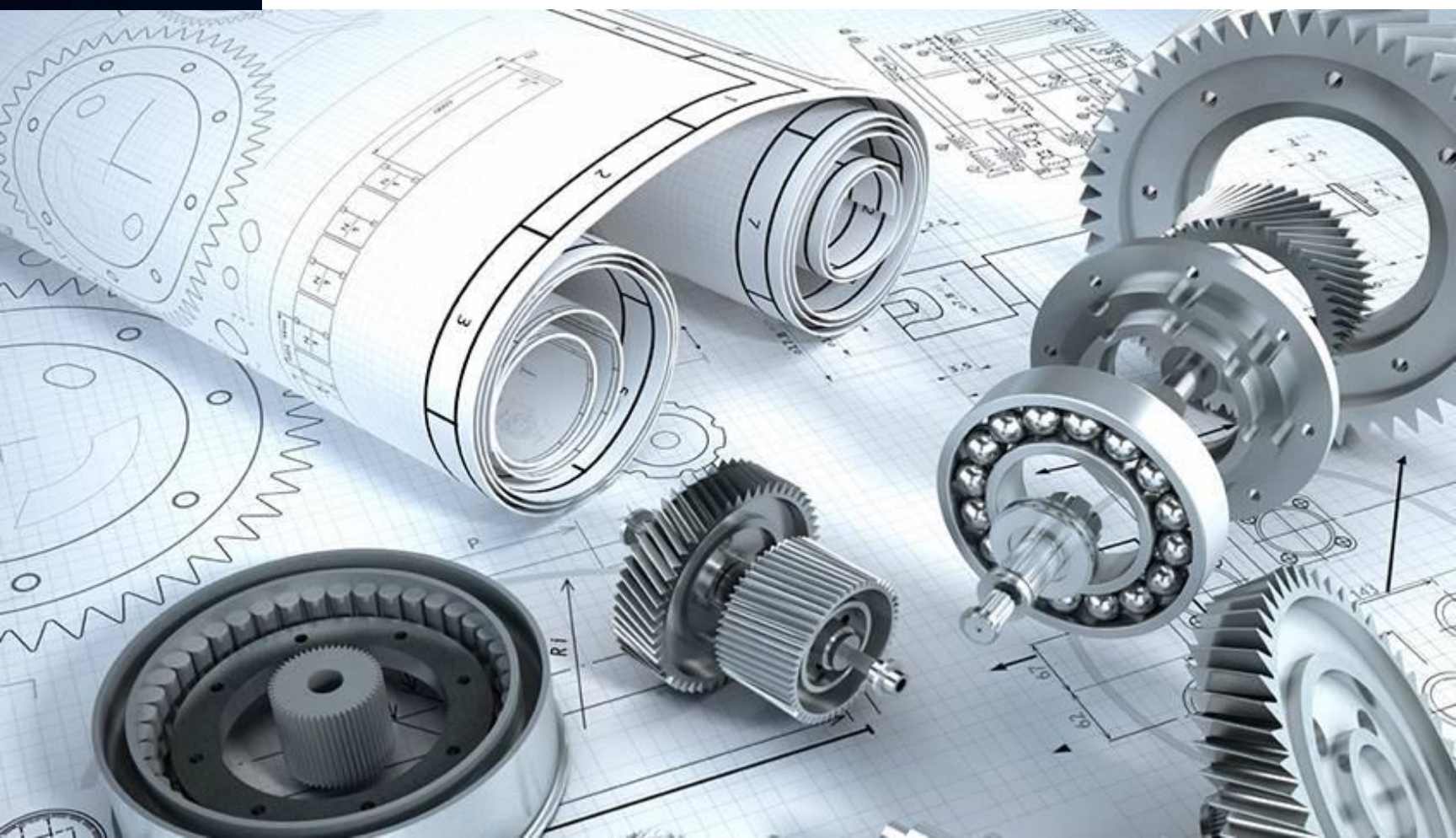




# ENGINEERING

## What we do

- Engineering
- Mechanical
- Plumbing
- Electrical
- Scaffolding
- Protective coating, Painting, and Thermal Insulation.
- Plant Reliability Solutions.
- General Supplies
- Process Safety Management Implementation
- Inspection and Auditing
- Process Safety Training





# Engineering

ISS **Electromechanical** Works success stems from its dedication to provide customers with proven professional services and cost-effective solutions driven by transparency.

As such, the company focuses on delivering tailor-made projects with quality-centric workmanship.

ISS Electromechanical Works has an in house technical team offering round-the-clock services to ensure that our clients are satisfied from project inception until its final completion.

ISS Electromechanical Works broad range of engineering services and solutions include:

- Conceptual and preliminary engineering
- Evaluation of tender documents
- Design review and value engineering
- Project cost estimation
- Equipment and materials procurement
- Planning and scheduling
- Detailed design & shop drawings
- Inspection, quality assurance and control
- Testing & commissioning
- Operator training



# Mechanical

## HVAC

We install, maintain and repair climate-control systems in thermal comfort and maintaining good indoor air quality is our main purpose.

ISS Electromechanical Works strives to install systems with the perfect quality-cost balance that successfully provides superior air quality while incurring low energy costs and allowing easy maintenance.

What sets us apart is that our team undergoes continuous extensive training that is unmatched in the industry. We and maintain systems, install controls, test individual parts, and replace worn-out components.

- Chilled water systems
- Package units
- Extract fans
- Fresh Air Handling Units
- Ecology Units and Make up Air Handling Units
- Ducting
- Piping
- Tanks



# Mechanical

## Fire Fighting

- Piping
- Tanks





## Plumbing

ISS Electromechanical Works puts lots of emphasis to ensure that every plumbing system installed is equipped with valve assemblies and devices for the proper distribution of water.

Our Designers always assure to implement global and Egyptian regulations and standards to guarantee delivering best quality.

The plumbing systems that We specializes in:

- Sanitary and drainage systems
- Water distribution
- Water treatment
- Solar Heaters
- Kitchen and laundry plumbing
- Irrigation systems and controls
- Sand traps and grease traps

The reliable protection systems we install have one main purpose which is to prevent the interruption of services necessary for the public welfare and avoid area wide the utmost priority.

## Fire Fighting

- Fire suppression systems
- Fire extinguishers
- Fire hose reels
- Fire hydrant systems
- Automatic sprinkler





## Electrical Low Voltage and Medium Voltage

ISS Electromechanical Works engineers low and Medium voltage systems that distributes power where is needed, safely and reliably, while providing optimal protection for personnel and equipment. Our range of low voltage distribution elements includes:

- Grounding
- Main Distribution Boards
- Secondary Main Distribution Boards
- Final Distribution Boards
- Cables
- Sockets



Emergency power systems are extremely useful in many different settings such as residential homes, hospitals, research laboratories, data centers, and telecommunication centers. ISS Electromechanical works specializes in many emergency power systems that include:

- Generators
- UPS
- Panels
- Medium Cables





## Low Current

- Data and Communication
- Fire Alarm
- Access Control
- BMS ( Building Management System )
- Audio Visual
- Lighting Control System
- Video and Audio Intercom System





## SCAFFOLDING

### Scaffold Materials

- Frame Scaffold provides assistance, flexibility and access to almost every type of scaffold project. Quality-constructed steel tubing make Sectional frames some of the strongest, most dependable scaffold in the industry. Commonly referred as Masonry scaffold or “frame & brace” sectional scaffold has a full range of components including:
  - Side brackets
  - Guardrails
  - Stairways and ladders
  - Sidewalk canopy frames
  - Aluminum platform planks
  - Rolling Towers
  - OSHA grade scaffold plank
  - Putlogs





## SCAFFOLDING

### Scaffolding Manpower

- ISS have Competent and well trained manpower with full and stringent adherence to safety procedures with full PPE. Moreover, all the manpower hold relevant certificates and/or training courses suitable to their task.
- Scaffold Foremen
- Scaffold Inspectors
- Scaffolders.
- Workers & Helpers

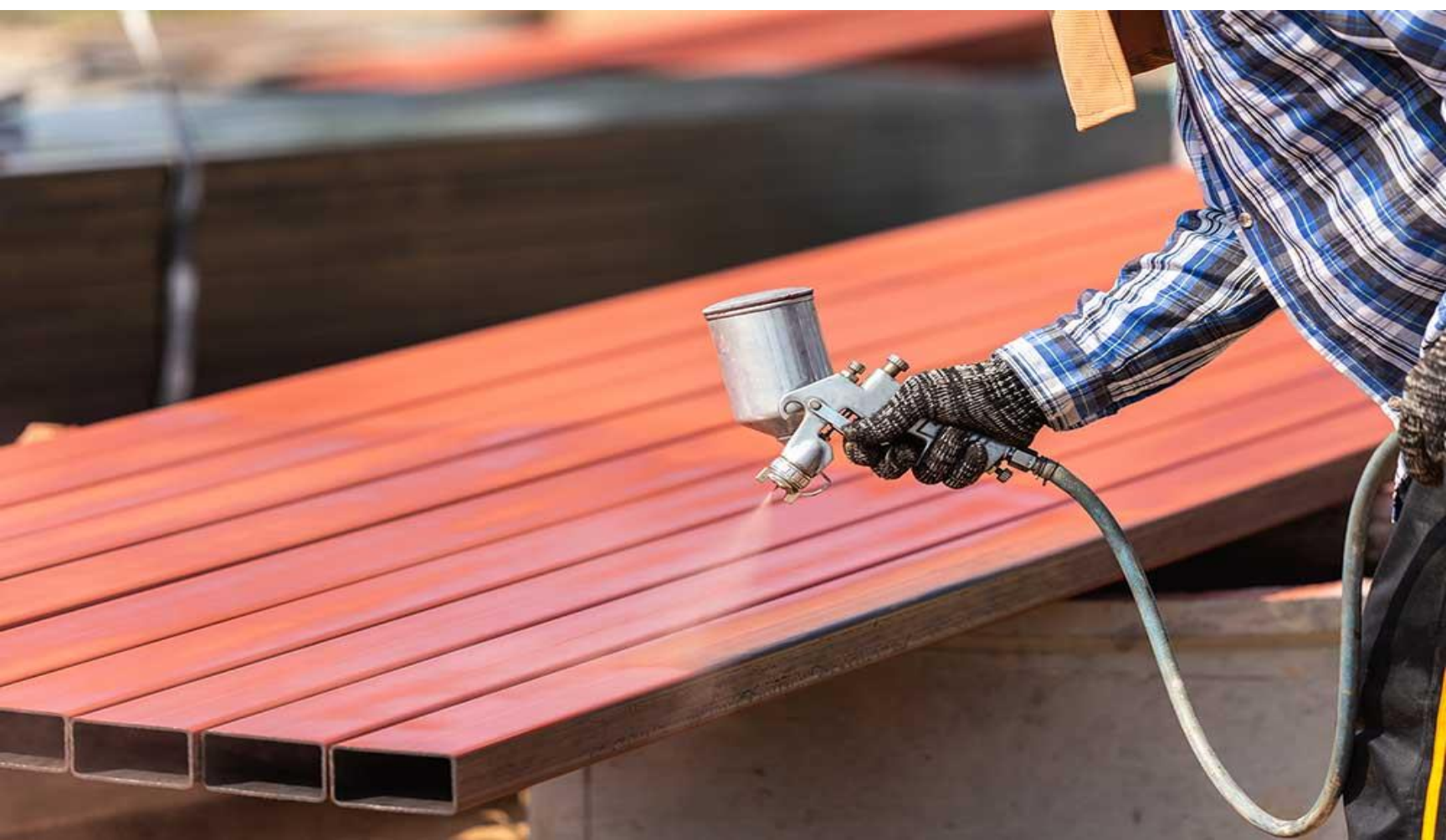


## INDUSTRIAL COATINGS APPLICATOR

Preparing the surface of new or existing steel structures and applying the appropriate corrosion protection coatings.

There is a high demand for skilled industrial coatings applicators in the national infrastructure sector. The work usually takes place within a workshop or a designated area of a construction site for new steel structures, and on site for the maintenance or refurbishment of existing steel structures.

Industrial coatings applicators play a key role in protecting the nation's infrastructure from deterioration for the benefit of existing and future generations.



# Plant Reliability Solutions

## E170 Corrosion Protection Innovation

E170 is a new patent material that applied to critical equipment such as flanges, valves, bearing housings and critical long storage parts.

Of the many types of corrosion, E170 product is specially formulated to prevent galvanic corrosion by creating a moisture-free encapsulation with slow-release corrosion-inhibiting oils that arrest corrosion at the source. Upon application, E170 shrinks around the substrate, creating a perfect seal to ingress.



# Plant Reliability Solutions

## E170 Corrosion Protection Innovation

Flanges and valves are complex assemblies with a far greater risk of corrosion than the pipes to which they are attached. Any structure constructed with multiple components and secured with bolts has corrosion accelerating properties built in: connecting surfaces and voids promote crevice corrosion, differing metals bring galvanic corrosion and coating damage during assembly allows corrosion into the system from the start. In a marine environment, salt water, constant moisture and unstable conditions can lead to bolts corroding in weeks and flanges failing within two years of construction. Offshore or onshore, any structure in such an environment will start to corrode at the flanges and bolts or in the crevices formed by construction, leading to compromises in safety that can only be addressed with constant maintenance or replacement.

E170 prevents the deterioration of stored components and equipment. applications have eliminated failure rates in stored assemblies and increased equipment lifetimes by 500% or more.



## General Supplies

ISS consultants provide the following range of supplying services:

- PPE
- Welding Machines
- Flanges
- Pipes
- Filters
- Spare Parts
- Electrical Cables
- Electrical Panels and Switch Gears
- Industrial Gases



# Pipeline Services and Flange Management

Process system integrity problems result from a number of issues, including incorrect joint assembly, improper tightening methods, ineffective flange tagging systems, and the lack of a formal flange control / management system.

A flange management system can assure that all process system flanges are identified and have been mechanically completed in a controlled manner that helps minimize, and in most cases eliminates, integrity-related issues (such as leaks) at startup.

The value gained from ISS flange management service results from a number of industry-leading features:

- Computerized flange management control system
- Specialized flange management software package
- Integrated engineering package
- Tailored service packages delivering effective resource utilization from single-crew
- Joint work scopes to support facility construction or shutdown projects
- Speed and accuracy by utilizing state-of-the-art equipment
- Complete range of hydraulic and hand torque tools including low-profile and square drive heads

**TUFFA tags.**

**PERMANENT JOINT INFORMATION**

Name \_\_\_\_\_ Date \_\_\_\_\_

Signed \_\_\_\_\_

Flange Face: Clean  Aligned

Bolts: Correct Length  Grade

Tensioned  Torqued

Gasket: Correct Size  Material

Lubrication Applied \_\_\_\_\_

TUFFA PRODUCTS, INC. 161 S. 8895 3347 #FLP03

**TIGHTENED**

Name \_\_\_\_\_

Signed \_\_\_\_\_

Date \_\_\_\_\_

RETURN TO SUPERVISOR

**ASSEMBLED**

Name \_\_\_\_\_

Signed \_\_\_\_\_

Date \_\_\_\_\_

RETURN TO SUPERVISOR

**INSPECTION**

Name \_\_\_\_\_

Signed \_\_\_\_\_

Date \_\_\_\_\_

RETURN TO SUPERVISOR



# Nitrogen Purging

Nitrogen purging is a method of treating hazardous or unwelcoming environments that have become subject to highly reactive oxygen levels. Nitrogen is introduced at a high pressure to reduce the oxygen content within an environment and reduce the risk of explosive reactions due to the presence of hydrocarbons.

We supply process plants that are able to deconstruct and reconstruct desired environments by the replacement of air, also known as oxygen freeing. This can prove vital to plant shutdowns when levels become dangerously high.

We will provide an on-site survey assessing working conditions before identifying how our nitrogen purging service can help you. Our team is fully trained and qualified to the latest training procedures and safety standards, meaning you can trust us to provide the best and most effective solution for you.



# Chemical Cleaning

- Chemical cleaning is a method to derive surfaces and walls of equipment, pipelines, vessels, kettles and heat exchangers of unwanted contaminants. Chemical cleaning also means the purification, conditioning, treatment or disinfection of water.
- Lime stone removal and scaling prevention for heat exchangers, pipelines and kettle walls
- Bio film removal for equipment that has been in touch with water
- Legionella disinfection
- Surface corrosion treatment
- Scent removal off walls, pipelines
- Corrosion prevention in pipes, aluminum silo's and systems with various materials.



# Process Safety Training, Auditing, and Consultation

Process safety management is widely credited for reductions in major accident risk and improved process industry performance. Process safety practices and formal safety management systems have been in place in some companies for many years.

ISS consultants provide the following range of services:

- Initial gap analysis between existing systems and CCPS 20 elements
- Prepare action plans to fulfill gaps
- Help to create procedures and process safety policy
- Implement initial and refreshing training
- Conduct process safety management audits
- Provide process safety fundamental training
- Provide the process safety posters and signs



# ISS Clients





## **Previous Work Experience**



<b>Company</b>	DEA - RWE
<b>Location</b>	Desoque Plant Kafr Elsheekh
<b>Date</b>	2014-2015
<b>Project</b>	Gas Plant
<b>Activity</b>	<ul style="list-style-type: none"> <li>• Fabrication of open drain of gas plant</li> <li>• Supplying of materials and valves</li> <li>• Fabricating the pipe and flanges Sales gas compressors</li> <li>• Argon welding of Duplex Flanges at well heads</li> <li>• Calibration of PSV valves of sales gas compressors</li> </ul>

<b>Company</b>	Suez oil Company (SUCO)
<b>Location</b>	Desoque Plant Kafr Elsheekh
<b>Date</b>	2015
<b>Project</b>	Gas Plant
<b>Activity</b>	<ul style="list-style-type: none"> <li>• Laser Alignment of loading pump 4001 A</li> <li>• Argon welding of Duplex Flanges at well heads</li> </ul>

<b>Company</b>	Siemens
<b>Location</b>	Desoque Plant Kafr Elsheekh
<b>Date</b>	2015
<b>Project</b>	Gas Plant construction
<b>Activity</b>	<ul style="list-style-type: none"> <li>• SUCO Sales Gas Compressors Suction and Discharge Piping Alignment</li> <li>• Cut and welding of suction and discharge piping</li> <li>• RT/UT for all welds accepted</li> <li>• Inspection suction by proscopie device</li> <li>• Nitrogen leak test</li> <li>• Thermal insulation for discharge lines</li> </ul>



<b>Company</b>	Kuwait Energy
<b>Location</b>	Shoukir Field
<b>Date</b>	2014
<b>Project</b>	Fire Fighting system and fire and gas
<b>Activity</b>	<ul style="list-style-type: none"><li>• Design and construction of fire protection system</li><li>• Construction of 300 m<sup>3</sup> fire water tank,</li><li>• Supply and construction of 750 m fire main,</li><li>• 2 750 GPM fire pumps , 2 jockey pumps,</li><li>• Water foam system, and deluge system</li><li>• Fire and gas detectors.</li></ul>

<b>Company</b>	ASCOM
<b>Location</b>	ElMinya Plant
<b>Date</b>	2013
<b>Project</b>	Fire Fighting system design of new cement plant
<b>Activity</b>	<ul style="list-style-type: none"><li>• Design of fire protection system for ASCOM new cement plant</li></ul>

<b>Company</b>	Arabian Cement Company
<b>Location</b>	Ain Sokhna
<b>Date</b>	2013
<b>Project</b>	Installation of outdoor siren
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply and install outdoor siren for emergency response activities</li></ul>



<b>Company</b>	Air Liquide
<b>Location</b>	Alexandria EZZ Steel plant and Abu Qir Fertilizer
<b>Date</b>	2015
<b>Project</b>	CO2 and FM200 Fire Fighting system
<b>Activity</b>	<ul style="list-style-type: none"> <li>Supply and install CO2 and FM200 for main switch gear rooms in EZZ and Abu Qir Fertilizers</li> </ul>

<b>Company</b>	Unilever Mashreque
<b>Location</b>	6 October Plant
<b>Date</b>	2015
<b>Project</b>	Dismantling of Old Plant
<b>Activity</b>	<ul style="list-style-type: none"> <li>Supervision of all lifting operations of dismantling old plant</li> </ul>

<b>Company</b>	NLSupervision
<b>Location</b>	ACC plant
<b>Date</b>	2010
<b>Project</b>	Modification of Fire Fighting truck
<b>Activity</b>	<ul style="list-style-type: none"> <li>Modification of fire fighting truck of ACC plant</li> </ul>

<b>Company</b>	NLSupervision
<b>Location</b>	Main Office
<b>Date</b>	2016
<b>Project</b>	Installation of main control and communication room of NLSupervision
<b>Activity</b>	<ul style="list-style-type: none"> <li>Installation of HVAC</li> <li>Raised floor</li> <li>Network cables</li> <li>Lighting</li> </ul>



<b>Company</b>	DEA
<b>Location</b>	Well head no 14
<b>Date</b>	2016
<b>Project</b>	Supply and Installation of chemical dosing heat tracer
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply and Install heat tracing system for chemical dosing diving gas line</li></ul>

<b>Company</b>	DEA
<b>Location</b>	Gas Treatment Plant
<b>Date</b>	2016
<b>Project</b>	Supply and Installation of fire and gas detection system
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply and installation of fire and gas system of the main control room</li></ul>

<b>Company</b>	NLSupervision
<b>Location</b>	Arabian Cement Company plant
<b>Date</b>	2016
<b>Project</b>	Supply two tons of AFFF foam system
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply two tons of AFFF foam system</li></ul>



<b>Company</b>	DESUQ CO
<b>Location</b>	Desoque Gas Plant
<b>Date</b>	2016
<b>Project</b>	Establish fire and gas system of gas field
<b>Activity</b>	Supply and install
	<ul style="list-style-type: none"> <li>• Fire detection system</li> <li>• Gas detection system</li> <li>• Fire and gas control panel</li> </ul>

<b>Company</b>	Coca Cola Atlantic
<b>Location</b>	Coca Cola Atlantic Plant
<b>Date</b>	2016
<b>Project</b>	Establish New Plant Earthing System
<b>Activity</b>	Supply and install
	<ul style="list-style-type: none"> <li>• Earthing system components</li> <li>• Connecting the new Earthing System to the Existing one</li> </ul>

<b>Company</b>	Coca Cola Atlantic
<b>Location</b>	Coca Cola Atlantic Plant
<b>Date</b>	2016
<b>Project</b>	Hazard Area Classification
<b>Activity</b>	<ul style="list-style-type: none"> <li>• Conduct hazard area classification</li> <li>• Issue plant equipment isolation plan</li> </ul>



<b>Company</b>	Titan Cement Company
<b>Location</b>	Bani Suif
<b>Date</b>	2016
<b>Project</b>	Establish Fire Alarm System for Plant Buildings
<b>Activity</b>	Supply and install
	<ul style="list-style-type: none"> <li>Supply and install fire alarm system in technical, administration and plant control building.</li> </ul>

<b>Company</b>	Kharafi
<b>Location</b>	Hurghada Power Station
<b>Date</b>	2016
<b>Project</b>	Implement protective coating
<b>Activity</b>	Supply and implement protective coating to new power station
	<ul style="list-style-type: none"> <li>Heat resistance coating, Zinc rich epoxy and Polyurethane top finish.</li> </ul>

<b>Company</b>	Siemens
<b>Location</b>	SUCO
<b>Date</b>	2017
<b>Project</b>	Modification of sales gas compressor stacks modification
<b>Activity</b>	<ul style="list-style-type: none"> <li>Supply and install St. St. sales gas stack and welding new stacks.</li> </ul>



<b>Company</b>	NLSupervision
<b>Location</b>	Kawmya Cement Plant.
<b>Date</b>	2017
<b>Project</b>	Water mist system
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply and install water mist system for boilers and diesel tanks</li></ul>

<b>Company</b>	LESAFFRE
<b>Location</b>	Nobaria -
<b>Date</b>	2017
<b>Project</b>	Water Sprinkler System
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply and install water sprinkler system for raw materials store</li></ul>

<b>Organization</b>	Parliament Admiration Buildings
<b>Location</b>	Cairo
<b>Date</b>	2017
<b>Project</b>	Water Sprinkler System
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply and install water sprinkler system for administration buildings</li></ul>



<b>Organization</b>	United Gas Derivatives Company (UGDC)
<b>Location</b>	Port Said
<b>Date</b>	2018
<b>Project</b>	Total Maintenance for UGDC Main Building
<b>Activity</b>	<ul style="list-style-type: none"> <li>• Remove the existing corrugated sheets for Roof &amp; upper parts of walls.</li> <li>• Painting of sub-structure</li> <li>• Install UPVC corrugated sheets 2.5 mm for roof &amp; upper parts of walls.</li> <li>• Install roof drain system include UPVC drain gutter, and all other accessories.</li> <li>• Install downspout.</li> <li>• Painting of external walls.</li> <li>• Replace the fall ceiling tiles by new tiles available in UGDC.</li> <li>• Supply and install Natural stone.</li> </ul>

<b>Company</b>	LESAFFRE
<b>Location</b>	Nobaria -
<b>Date</b>	2020
<b>Project</b>	Fire Alarm System
<b>Activity</b>	<ul style="list-style-type: none"> <li>• Supply and install fire alarm system for boiler and transformer rooms</li> </ul>



<b>Company</b>	LESAFFRE
<b>Location</b>	Nobaria -
<b>Date</b>	2020
<b>Project</b>	CO2 system for transformer rooms
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply and install firefighting system transformer rooms</li></ul>

<b>Company</b>	Ministry of Interior Horse Club
<b>Location</b>	Cairo
<b>Date</b>	2021
<b>Project</b>	CO2 system for transformer rooms and Fire hose boxes and fire sprinkler system
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply and install firefighting system for horse club</li></ul>

<b>Company</b>	GAS COOL
<b>Location</b>	10th of Ramadan city
<b>Date</b>	2021
<b>Project</b>	Fire Alarm System of main stores
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply, install, test and commissioning beam detection system</li></ul>



<b>Company</b>	GASCO
<b>Location</b>	Talkha
<b>Date</b>	2021
<b>Project</b>	Fire Fighting Water Tanks
<b>Activity</b>	<ul style="list-style-type: none"><li>• Supply, install, test and commissioning two 150 M3 steel fire water tanks.</li></ul>

# ISS Clients





## Follow Us



## Contact Us



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