



*Electro Mechanical Technology
For
Construction, Testing and Commissioning*

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COMPANY
PROFILE
2021

Company Profile

ELEMECT energy has improved itself to be electro-mechanical contractor, through its extensive participation to some of the projects in the power generation, industrial filed.

Construction, Testing and commissioning of electrical, instrumentation, mechanical and control areas.

Installation, Inspections and tests of electrical, mechanical equipment's, an activity during which the state of electrical equipment from the point of view of its safety is ascertained by inspection, measurement and testing.

After approximately 5 years of valuable history, ELEMECT become today the solution to achieve the formula of success; competitive cost and high quality in the required time.

The key word of our success is the strategy which aim to client satisfaction, improve the skill level of our staff, increase our market share and participate in new working fields with new partners. In this regards we established some branches in different countries.

Based on our roots in the electro-mechanical field we executed in years 2017 in power plant, industrial packages in parallel with 200 direct skilled labors in addition to other projects in different fields. The previous facts focused on our enormous capability to manage and finance such number of projects in the same time.



Our Business

- Power Stations
- Substations & Networks
- Industrial Projects
- High & Medium Voltage Cables
- Pumping Station



Activities

CONSTRUCTION

-Electrical

- Supply, Laying and termination of power and control cables.
- Supply and installation of cable trays and conduits.
- Erection of power & auxiliary transformers.
- Installation of HV & MV switchgear.
- Installation of ISO phase bus duct.
- Installation of Load centers & motor control centers (MCC).
- Installation of control, protection & measuring panels.
- Installation of service systems (lighting, lightning and grounding system).
- Installation of UPS and battery charger system.
- Installation of Alternators (synchronization and protection).
- Installation of GIS and SWYD.
- Whole Installation according to contract specification and meet the standard codes IEEE and NEMA.



Activities

CONSTRUCTION

-Instrumentation

- Supply, laying and termination of instruments cables.
- Installation of digital control system (DCS).
- Installation of Turbine control system (TCS).
- Installation of whole types of Instruments.
- Installation of sampling system.
- Installation of Tubing, supports and fittings.
- Installation of whole communication system.
 - Paging system.
 - IDAS system.
 - CCTV system.
- Installation of Fire alarm system.
- Supply and installation of cable Trays and conduits.



Activities

CONSTRUCTION

-Mechanical

- Balance of plant mechanical equipment erection (BOP).
- Water treatment and circulating water equipment's erection.
- HVAC system erection.
- Turbine and generator erection.
- Firefighting system erection. (FF)



Activities

TESTING & COMMISSIONING

-Electrical



- Electrical Insulation Resistance Testing.
- ELECTRICAL WIRING CONTINUITY TESTING.
- Electrical Earth Continuity Path Testing.
- Electrical Testing of Non-linked Single Pole Switches.
- Electrical Earth Resistivity Testing.
- HI potential Test (AC/DC/VLF)
- High Current Test (500A to 15000A+).
- Secondary current test.
- Relay test and settings.
- Power factor test.
- Winding Resistance Test
- Transformer Turns Ratio (TTR) Test.
- Current Transformer Test.
- Power Recorder.
- Load Bank.
- Interlock & Trip matrix check.
- Whole dummy test.
- Testing of CT's and PT's.
- Power Transformer Oil Analysis.
- Transformer stability test.



Activities

TESTING & COMMISSIONING

-Instrumentation



- Loop check with field calibration.
- DCS Function check.
- Stroke all valves with all function sequence needed.
- Check whole Communication between all systems.
- Test the fire system of detectors, panels, module, and horns for operation starting.
- Make all fields testing for component and equipment in accordance with contract, specification and standard codes.
- Trouble shooting.



Activities

TESTING & COMMISSIONING

-Mechanical



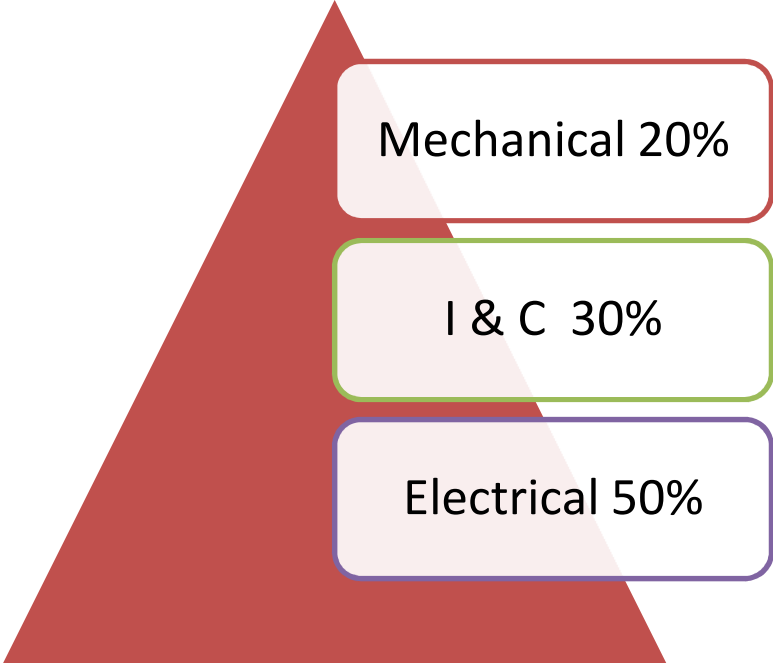
- Fans (Vibration, Noise and Temperature) test.
- Motor no load Test.
 - Vibration drive end and non-drive end.
 - Noise dp.
 - Speed RPM.
 - Starting current.
 - Nominal current.
 - Phase rotation.



- Motor Load Test.
 - Vibration drive end and non-drive end.
 - Noise dp.
 - Speed RPM.
 - Starting current.
 - Nominal current.



Our Major Activities



Our Mission

To achieve the client requirements with competitive cost and high quality service, increase our market share, participate in new working fields and expand our working zones



A large industrial power plant with multiple tall smokestacks and complex piping structures. The scene is set against a dramatic sunset sky with orange and yellow clouds. In the foreground, there is a body of water reflecting the industrial structures and the sky. A blue diagonal graphic element is present in the bottom-left corner.

CONTACT US

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