



MECHATRONIC ENGINEERING & CONSTRUCTION Co. LTD.

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INTERNATIONAL
CERTIFICATION
ISO 9001:2000
APPROVED



Proudly ISO 9001:2000

Welcome to Mechatronic Engineering & Construction Co LTD

Here at **MECC**, we believe the fulfillment of our customers' needs should be Our top priority and objective. We achieve this goal by making sure our Industrial plant facilities, management and construction projects . . .

- Are cost effective,
- Meet professional standards in workmanship and materials
- Are managed by experienced project engineers & other staff
We offer a wide range of experience and we take pride in our ability to give Nothing less than the best.





MECHATRONIC ENGINEERING & CONSTRUCTION Co. LTD.

INTRODUCTION:

The companies ordinance, 1984(company limited by shares) Mechatronic engineering & construction Co. LTD.

To carry on the business of designing, engineering, construction management, supervision and technology of the plants and or the facilities in the field of oil, gas petrochemicals, chemicals, electro chlorination, power, water, waste water, coating, painting and cathodic protection system(s).

To carry on the business of EPC contracting, project management, supervision, installation, third party testing and commissioning.

To carry on the business of import, export, trading, agency, dealership, marketing, distribution, storage.

Vision & Mission:

Vision:

To be one of the leading Technical and Engineering services providers for oil & gas, petrochemicals, chemicals, electro chlorination, power, water, waste water, utilities, coating, painting and cathodic protection system(s). Utilizing years of experience and diversified knowledge acquired by the owners and key company personal from working globally with world class organizations.

Mission

To provide state-of-the-art services, utilize indigenous man-power, addressing customer needs in a timely, efficient and cost-effective manner, to full satisfaction of clients and meeting the highest professional standards in design, engineering, construction, project management and O&M.

Quality Policy

It is our commitment to ensure that our services fully meet/exceed the requirements of its customers at all times and to achieve customer satisfaction at all times. Quality assurance and control are key performance aspects of our Companies operations. Our professional services shall satisfy the client's requirements and conform to relevant international quality standards.

Safety Policy

Our Safety Policy is to care for safety and environment. We provide a safe and healthy environment and endeavor to protect our employee's safety, health and welfare under all circumstances. Our company actively pursues safety and loss prevention, in all functions, both on and off the job, and conforms to relevant international Safety standards.



MECHATRONIC ENGINEERING & CONSTRUCTION Co. LTD.

Contracting Management, Designing, Engineering & Construction

Mechatronic Engineering & Construction Company along with its international associates provides detailed engineering services to ensure optimum construction, operation, safety, maintenance and cost of the plant. This is achieved through extensive use of integrated engineering workflows, use of multi-platform engineering applications for design and analysis of process, piping, mechanical, electrical, instrumentation, civil & structural. These high-end services are also supported through extensive use of state-of-the-art CAE tools for 3-D modeling, Plant walk through, Simulation, and individual as well as composite analysis. The Engineering & Project functions are mainly grouped and their functions defined as :

Detail Engineering

- Process
- Piping and Layout
- Electrical
- Civil and Structural
- Instrumentation
- Mechanical
- Project Engineering

We have the ability to quickly respond to challenges with innovation, professional attitude, versatility, skills, dedication and motivation. Project planning and management is of primary importance to all projects. Mechatronic firmly believes that an efficient and intelligent project management is of utmost importance in the success of the project it undertakes. Mechatronic has highly experienced project management team with extensive industry and implementation expertise. The team is well equipped with the latest Project Management tools and information systems to perform project management, scheduling, monitoring and cost control. Safety of personnel, plant and environment is of utmost importance during the complete project life cycle. Best practices at construction site are implemented to reduce overall schedule ensuring safe and efficient construction completion and commissioning of the plant.



MECHATRONIC ENGINEERING & CONSTRUCTION Co. LTD.

Our Expertise

We have our expertise include Design, Engineering, Maintenance (Predictive/preventive), Operation-commissioning and start-up. Our technical capabilities also comprise in the following specific fields:

Mechanical Engineering:

Fabrication and erection of piping
Fabrication, assembly and erection of structural works
Fabrication, erection and maintenance of tank age
Erection and commissioning of plants
Erection and commissioning of cranes
Erection of pre fabricated steel structures
Insulation work .

Electrical Engineering:

Installation and commissioning of building and plant electrical
Cable laying, termination and jointing work
Electrification of building and plants
Maintenance of all electrical installations.
Conveyors, erection of towers and columns
Installation of pumps and compressors
Substation, transformers, pillars
Switch racks and control panels

Civil Engineering:

Industrial foundations and buildings
Equipment and plant foundations
Concrete repair works
Bridges Road works

Instrumentation:

Installation of instruments including tubing and instrumentation cabling.
Calibration of instruments
Loop checking and commissioning.

HVAC

Duct fabrication and installation
Insulation
Maintenance of all HVAC installations

Electro Mechanical and Construction Services

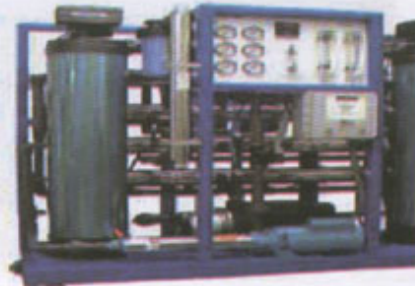
Supply and Installation of Mechanical and Electrical Equipment such as: Pumps, Diesel Engines, Boilers, Cranes, and Compressors
Supply and fabrication of pipelines (Steel, Cast iron, Ductile and PVC)
Installation of Slide Gates for water, sewage and irrigation works
Supply and fabrication of Electrical Panels and their components
Renewal of pump station
Supply and installation of ventilation systems, water hammer protection systems.



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Water, Waste Water:

We provide design engineering, fabrication and construction services to industrial customers for a variety of water, wastewater, storage and treatment projects. Typical projects include all-steel or composite elevated tanks, standpipes, under & above ground piping, reservoirs, Solids-contact clarifiers, filtration systems and anaerobic digestion systems. Lift station, pump station and Reverse osmoses.

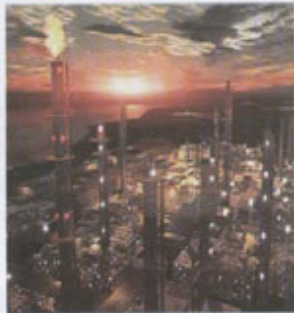




Petrochemicals & Chemicals

Petrochemical production is primarily ethane based. Ethane is a component of natural gas. It contains two carbon atoms and six hydrogen atoms per molecule. Ethane is converted to ethylene by cracking. The result is two carbon atoms with a double bond and four hydrogen atoms per molecule. Ethylene is used as a building block to make plastics, antifreeze, film, fibers, and other products. Natural gas is used as a fuel for petrochemical production, as well as a feedstock for fertilizer and methanol production.

We provide design; engineering fabrication & construction to industrial customers, who manufacture, process, store and distribute chemicals and petrochemicals such as ammonia, methanol, hydrogen, Octane, ethylene, propylene, polystyrene and other products. Typical chemical industry projects include modularized and conventional process plants; ambient, low temperature and cryogenic storage tanks; pipelines; pressure vessels; hydrogen and synthesis gas plants; methanol and ammonia plants, burners; import/export terminals; process piping & pumping stations.





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Oil & gas

We provide design engineering, fabrication, and construction services for oil and gas projects. pipeline distribution system deliver lump-sum, turnkey solutions for the refining, offshore, LNG/LPG, storage and pipeline sectors. Our expertise and services for the oil and gas industry include offshore projects, such as design and , floating production storage and Offloading facilities and offshore platforms. We also provide plant turnarounds, and import/export terminals For LNG and LPG, storage tanks, pressure vessels and pipelines.





Electro Chlorination

Mechatronic Engineering & Construction Company is at the cutting edge of electro chlorination plant design, engineering and construction. Many industries today use large quantities of water for process cooling. Power generation plants, chemical plants, refineries, facilities, paper mills, steel works etc. using electro chlorination to control of biological and physical water, wastewater treatment processes.

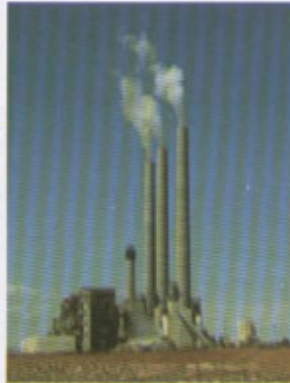




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Power

We provide design, engineering, fabricate and build facilities and major equipment for power industry customers. Our expertise encompasses both traditional and emerging technologies, including electric, cogeneration, LNG, hydroelectric and gas turbine power. Our expertise and services for power industry customers include thermal energy storage, flue gas desulphurization systems, heat recovery & steam generators





Coating & Painting

Piping coating, wrapping
Surface preparation by grit or blasting
Both air and airless spray – painting facilities
All inspection and quality assurance equipments





Cathodic Protection CP & ICCP System

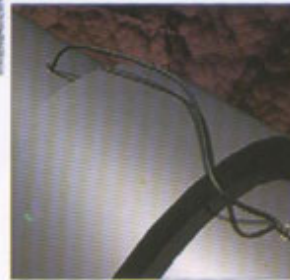
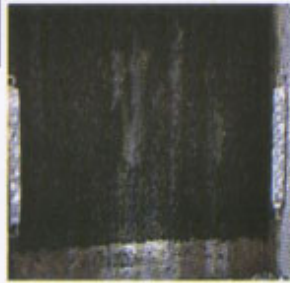
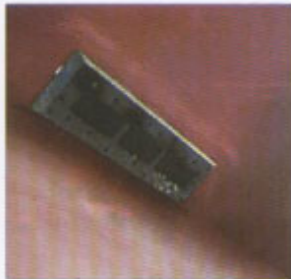
Galvanic protection and impressed current.

Installation

Engineering

Rehabilitation

Commissioning





MECHATRONIC ENGINEERING & CONSTRUCTION Co. LTD.

Clientele

Mecatronic Engineering & Construction Company has and anticipating a wide range of client-base to whom we provide services. Our clients range in size from small-scale industries through multinational corporations. Our potential customers will seek us out early on in the business transformation path as partners who can think constructively to find solutions that address needs specifically. Our organization engages with our potential customers at all levels. Our potential client base include:

- Power Plants
- Electricity Boards
- Industrial Waste Management Companies
- Desalination Plants
- Petrochemical / oil and Gas Companies
- EPC Design and Engineering Firms