

**EMC Projects** is an EPC Contractor in Oil & Gas, Power, Petro Chemical, and Water Treatment sectors.

EMC Projects provides comprehensive engineering, procurement, construction, installation and maintenance services, according to the best management practices.



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## Engineering

- Basic Design
- Front End Engineering Design.
- Detailed Design (mechanical, civil, structural, E&I ...)

## Procurement

- Procurement Strategies Development
- Call For Tenders Launch and Follow-up
- Bid Evaluation
- Negotiation of Contracts
- Expediting

## Construction

- Construction Preparation
- Site Management
- Construction Supervision
- HSE supervision
- Fabrication (structural, steel, piping ...)

## Commissioning & Start-up

- Precom/Com preparation
- Mechanical Completion, Ready for Start-up & Provisional Acceptance activities

## Operation / Maintenance

- Facilities Acceptance on commissioning Completion
- Supervision of Preventive and Corrective action plans
- Maintenance Engineering (Spare parts, Inspection, C.M.M.S...)
- Equipment maintenance & packaging (compressors, separators, pumps skids ...)

### Quality Management

- Project Quality Plan Set-up
- Quality Assurance
- Quality Control
- Inspections

### Document Control

- Establish and maintain Document Control Procedures

### Contract & Subcontract Management

- Contractual Strategy Definition and Implementation
- Subcontract Administration
- Claims Preparation
- Subcontracts close-out

### Planning and Scheduling

- Project Plan Development
- Break down Structures Set-up (WBS, OBS, RBS and CBS)
- Resource Management
- Scheduling (CPM, PERT, ...)
- Physical Progress Follow-up
- Reporting

### Cost Estimating

- Analogous Cost Estimating (Top-Down)
- Detailed Cost Estimating (Bottom-up)
- Capitalization

## Project Management

### Risk Management

- Risk Management Plan Set-up
- Risk Identification, Assessment and Mitigation

### Cost Control

- Cost Control Procedures Implementation
- Budget Preparation and Follow-up
- Cash Flow Forecasting

# Engineering Services

## Process

- Piping flow diagram PFD
- Piping & Instrumentation diagram PID
- Cause & Effect diagram
- Operation manual
- Functional analysis

### Software:

AutoCAD / Microsoft office word / Excel / AutoCAD PID

## Piping

- Flexibility check report
- Piping routings and isometric drawing
- Piping supports design
- Piping classes and valves specification
- Piping material lists

### Software:

CAESAR II / Cadworks / Microsoft office word / Excel

## Mechanical

- Design of static equipments (Tanks, Pressure Vessels...)
- Design of belts conveyors
- Technical specification of rotary machines (Pumps, Mixers,...) and Skids
- General arrangement drawings
- General layouts
- Installation drawings
- Mechanical material lists

### Software:

AutoCAD / PV ELITE / CAESAR II / Cadworks / Microsoft office word /

## Civil & Structural

- Site leveling & drawing system design
- Steel structure design
- Equipments foundations design (static/dynamic)
- Static /Dynamic design for building structures
- Roads system design
- concrete structure
- Formation & reinforcement drawing
- Steel structure drawing

### Software:

AutoCAD / Robot Structural analysis / TEKLA structure / Covadis / RCAD / Microsoft office

## Control & Instrumentation

- Architectural & synoptic diagram
- Control system and specification instruments
- In/Outs lists
- Control system arrangement and interconnection details
- Instruments material list
- Instrument cable routing

### Software:

AutoCAD Microsoft office

## Electricity

- Single line diagram
- Earthing system design
- Electrical block diagram
- Power synoptic
- Cathodic protection design
- Electrical equipments specifications
- Electrical material list
- Cable routing electrical

### Software:

AutoCAD / Caneco BT / Dialux / Microsoft office

## Technical Assistance

Provision of engineering, on site supervision and project services throughout the deployment of resourceful, reliable and highly skilled teams.

## Consulting

Diagnosis of existing problems, recommendations, action plan, implementation and monitoring.

## Training

Analysis, design, development, implementation, and evaluation of comprehensive programs.