



**TECHNOMAK**<sup>®</sup>  
ENGINEERING, PROCUREMENT, MANUFACTURING & CONSTRUCTION



**TECHNOMAR**

**TECHNOMAR**

**1500+ TEAM MEMBERS**

## WHO WE ARE

TECHNOMAK is an Engineering, Procurement, Manufacturing & Construction Company based in U.A.E, Saudi Arabia and India with a highly experienced workforce of over 1500. We mainly serve the requirements of the Middle East, Africa, Far East, Europe and Indian Sub- Continent.

A strong customer focused approach and continuous pursuit for top class quality have enabled TECHNOMAK to attain leadership in its 15 years of business.

The engineering expertise combined with fabrication facilities, E&I and site installation capabilities, have enabled TECHNOMAK to carve out a niche of its own in its industrial domain.

TECHNOMAK, with 1.85 MnSqft. state- of -the- art facilities in Sharjah and Abu Dhabi, is a one stop shop for a wide spectrum of manufacturing, fabrication and assembly. This includes 250,000 Sqft. quay side yard for the load out of oversized modules.

TECHNOMAK'S focus is on client satisfaction and building a long term and solid business relationship. Safety, Quality, Reliability and Prompt service are their hallmarks. The company is committed to continuous improvement of the efficiency by encouraging teamwork and creating a positive work environment.



1. 85 MILLION SQ. FT



OFFSHORE TOP SIDE - QATAR

# WHAT WE DO

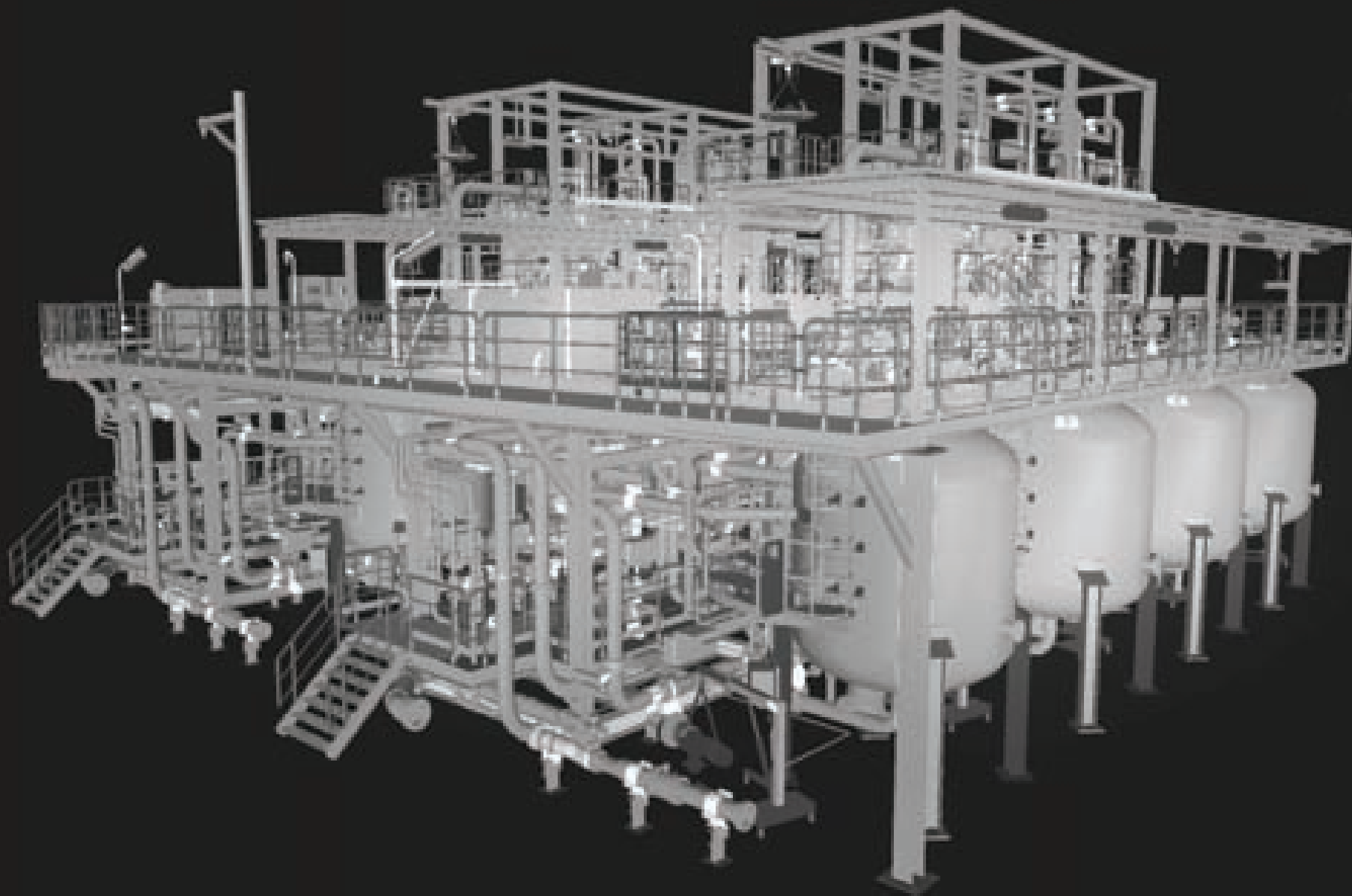
## SECTORS SERVED

- Oil & Gas (Onshore & Offshore)
- Petrochemical and Refinery
- Metal Industry - Aluminium & Light Metals
- Infrastructure
- Marine Industry
- Power and Water

## PRODUCTS AND SERVICES

- Engineering, Procurement and Construction Projects
- Fabrication of Modules with all equipment including E&I
- Living Quarters / Accommodation Modules /Recreation Modules (Fire/Non-fire rated, Blast/Jet fire rated, Safe / Hazardous, Single lift / Modular pieces)
- Control Buildings / Electrical Substations / LER / LCR / LIR Modules ( Control / Switchgear / Instrument / Battery)
- Workshop / Laboratory Modules (Custom built or Converted Container solutions)
- Offshore, Oil& Gas Fabrication and Installation (Jackets, Top Sides, Flare Towers, Boat Landing, Subsea Manifolds, Spools, PLEM, SPM, Alignment Frames, J Tubes & Risers)
- Onshore and Offshore Brownfield works
- Construction of Topside Modules for FPSO's and F-LNG.
- Skids and Process Packages- Chemical Injection Skids, RO Skids, Fuel Gas Conditioning Package, Pump Skid, Water Treatment Packages, Mixed Media Filter Package, Chlorination Skid, Containerized RO Package, Metering Skid, PR Skid, HIPPS Skid ,Filtration Package, Separator Skid, Pig launcher and Receivers
- Process Equipment- Pressure Vessels, Heat Exchangers, Scrubbers, KO Drums, Slug Catchers, Slug Vessels, Test Separators, Columns, Storage Tanks, De-aerators
- Turnkey, Shutdown & Maintenance jobs
- Fabrication of Special grades and Exotic materials
- Structural steel and piping fabrication , assembly and erection jobs





MIXED MEDIA FILTRATION MODULE - ADMA - OPCO (ABU DHABI)

# ENGINEERING

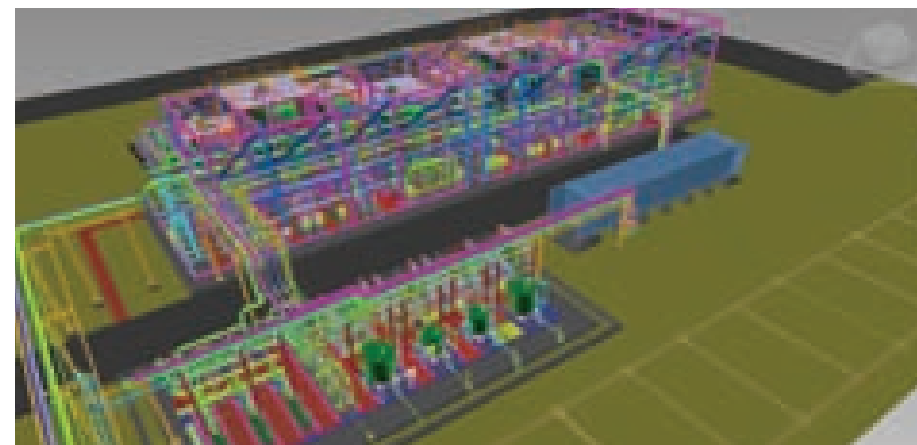
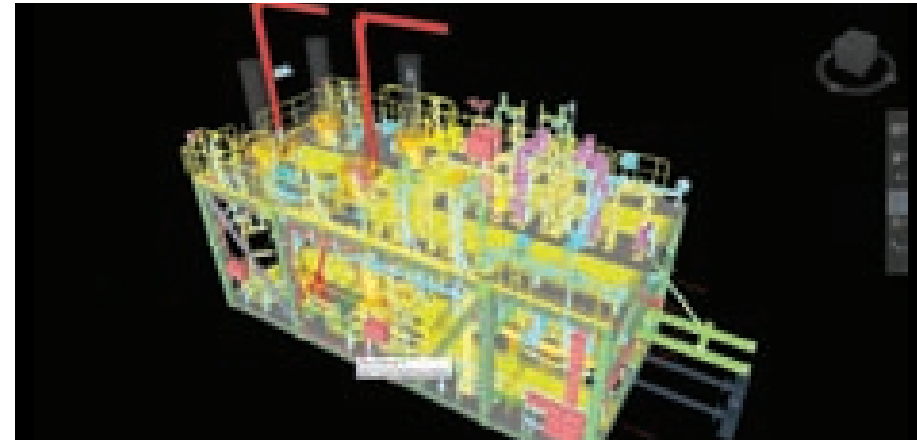
TECHNOMAK offers comprehensive engineering solutions from design to commissioning. With over a decade of engineering and construction expertise, TECHNOMAK is capable to provide optimized solutions in various engineering disciplines like Structural, Architectural, Piping, Mechanical, HVAC and E&I.

- Basic design and engineering
- Pressure vessel, skids and process packages design
- Pre-fabricated Substations and Living Quarters design
- 3D Modeling and detailing
- Structural detailing and shop drawings
- Piping Isometrics and spool drawings
- Architectural design
- Electrical, Fire & Gas and Telecommunications
- HVAC design includes D&ID and Air flow calculations

Technomak has teamed up with reputed local/ international engineering companies to have complementary relations to perform the engineering aspects of multi-disciplined projects, in house.

## SOFTWARE

- |             |  |
|-------------|--|
| • STAAD Pro | • TEKLA  |
| • CAESAR-II | • PV Elite   |
| • GTStruDL  | • Rhinoceros   |
| • HAP       | • HyperWorks   |
| • PDMS      | • Other software's are procured / leased as and when required. |
| • Dialux    |  |





1,500,000 Man hours without LTI



## QHSE

TECHNOMAK is committed to continuous improvement of its business processes by implementing global standards to deliver high quality products and services that will meet customer's needs.

At TECHNOMAK, quality is driven from the top and delivered by every individual.

TECHNOMAK is committed to protecting the environment, health and safety of its employees, customers and the public by implementing global industrial standards across all its facilities.

- **ISO 9001:2015**
- **ISO 14001:2015**
- **OHSAS 18001:2007**
- **ASME 'U'**
- **ASME 'PP'**
- **ASME 'S'**
- **National Board 'R'**
- **API '2B'**
- **British safety Council Member**





20,000 MT Plant Erection

# ENGINEERING, PROCUREMENT & CONSTRUCTION

TECHNOMAK provides Engineering, Procurement and Construction solutions to Oil & Gas sectors, Refineries, Petrochemical, Power, Water, Aluminium smelters and other Industrial plants.

TECHNOMAK's comprehensive solution to EPC projects include Civil, Mechanical, HVAC and E&I works. EPC in Mechanical activities comprises of design, detail engineering, procurement, fabrication and erection of all Equipment, Structural, Piping, Scaffolding, Surface finishing, Coating and Insulation.

EPC in E&I activities include design, detail engineering, procurement and installation of HV/LV system, Electrical Substations, Tray and cable systems, Lighting, Fire Alarm systems, Fire & Gas systems.

TECHNOMAK also provides solutions for Offshore and Onshore Brownfield, modification and maintenance projects.

In metal (ferrous and non-ferrous) industries, TECHNOMAK has extensive track record and expertise. Especially in the Aluminium industry, TECHNOMAK has executed various turnkey construction such as:

- Gas Treatment Center (GTC)
- Fume Treatment Center (FTC)
- Green Anode Paste Plant (GAP)
- Anode Stacking Cranes (ASC)
- Pot Tending Machine (PTM)
- Cathode Transferring Crane (CTC)
- Anode Roding Shop (ARS)
- Furnace Tending Assembly (FTA)
- Electro Static Precipitator (ESP)
- Aluminium Handling System (AHS)
- Calcination Plant

TECHNOMAK understands the complex nature of EPC projects and has the expertise to take up any kind of EPC projects.





DEMINERALISATION MODULE - TRINIDAD & TOBAGO, CARIBBEAN

## MODULES FABRICATION

Modularisation is a concept that enables reduction of site construction hours and manage shorter project timelines. TECHNOMAK'S excellent history of module solutions combined with commitment to safety, quality, structural integrity and on-time delivery make it the right partner for your modularisations.

TECHNOMAK's facility is situated in Hamriyah free zone with quay side yard to carry out major load outs. Also, TECHNOMAK's access to Hamriyah port with water depth of 13m facilitates load out of extra large structures and modules across the globe. TECHNOMAK's quay side yard with load out facility makes it unique and gives an edge over competitors, especially for the oversized module requirements.





MODULAR SUBSTATION - BP, IRAQ

# PRE FABRICATED SUBSTATIONS ETR, ITR & LIVING QUARTERS

TECHNOMAK take care of the Design, Engineering, Manufacturing, Testing and Commissioning responsibility of the Prefabricated Modular Building which comprises of Structural, Architectural, Out fitting, Electrical, Instrumentation, HVAC, Fire & Gas and Telecom Systems.

- Electrical substations
- Control rooms
- ITR, ETR & LER
- Transformer Skids
- Offshore Refurbishments
- Living Quarters
- Work shops, offices
- Laboratory Rooms & Galley
- Wire line/ Slick line Units
- Trailer Mounted Package

TECHNOMAK can offer buildings suitable for any area of classification like below, complying with ATEX and IEC standards. There is no constraints on size or weight of the buildings. TECHNOMAK's Quayside Yard with Load out facility makes it unique partner especially for the over sized buildings requirements.

- Safe Area
- Zone 1 or Zone 2
- Blast Rated Building
- A0, A60 Fire Rated
- H60, H120 Fire Rated
- J15, J30, J60 Fire Rated





JACKET LOAD OUT - ADMA - OPCO (ABU DHABI)



# OFFSHORE AND ONSHORE FABRICATION

TECHNOMAK undertake offshore and onshore works such as,

- Jackets
- Pipe racks
- Top Sides
- Anchor Piles
- Living Quarters
- Subsea Manifolds
- Subsea Spools
- SPM & PLEM
- Flare Towers
- Boat landing platform
- E-houses
- Skids Shoes
- Pipe Spools
- Alignment Frames
- J Tube
- Risers

TECHNOMAK's quay side yard facilitates load outs of extra large structures and modules upto 3000MT Single Unit.

TECHNOMAK has a dedicated crew for offshore works.





FPSO MODULE

## FPSO AND TOP SIDES

TECHNOMAK's modular business involves detailed Engineering, Procurement and Construction of Top Side modules for FPSO's (Floating Production Storage and Offloading Vessels) and F-LNG (Floating Liquefied Natural gas).

The Top Side module typically consists of specialized process and control equipment such as Separators, Heat Exchangers, Coolers, Pumps, Electrical Equipment, Process Piping, Control Valves and Control Panels which are installed on steel structural frames and connected as per the lay out drawings of the specific FPSO and F-LNG. Other Top Side modules include Power Generation module and Accommodation module. When installed, the Top Side modules would enable a FPSO to function as designed, mainly to process, store and offload hydrocarbons in an offshore environment.





INSTALLATION ENGINEERING - BLACK SEA

# OFFSHORE ENGINEERING WORKS

TECHNOMAK's Offshore and Marine Engineering team consists of Naval Architects, Structural Engineers, Piping Engineers, Electrical and Instrumentation Engineers and Draughting Team.

## SOFTWARE

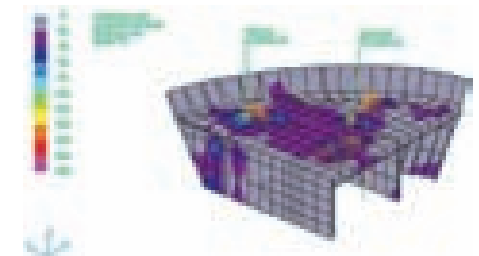
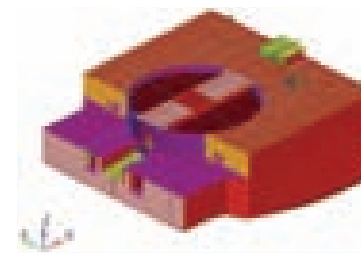
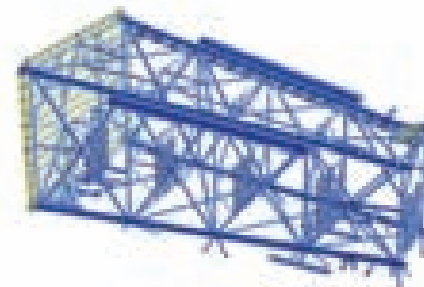
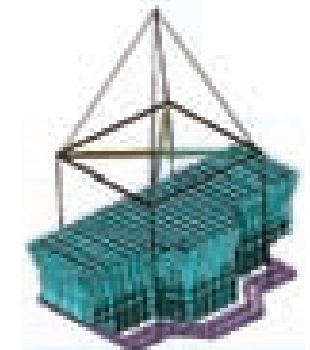
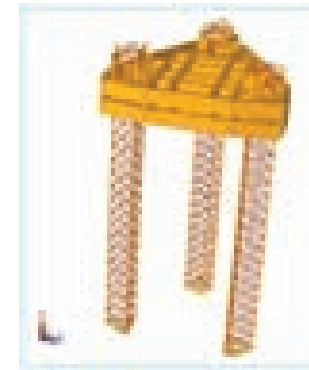
- MOSES
- SACS
- GTStruDL
- AutoHydro
- GRLWeap
- HyperWorks
- OFFPIPE
- Orcaflex
- TEKLA
- Rhinoceros

## CAPABILITIES

- Structural design
- FEM, 3-D Modeling
- Hydrodynamic Simulation
- Mooring Analysis
- Piping and E&I design
- Load-out and Transportation Analysis
- Construction Support Engineering
- Vessel Upgrade studies
- Inclining experiments
- Trim and Stability booklets

TECHNOMAK also provide software solutions for Marine and Offshore. TMONboard is our in-house developed onboard loading and stability software.

Visit <http://www.technomakconsultants.com> for more details





BROWN FIELD MODIFICATION & HOOKUP - MAERSK (QATAR)

# OFFSHORE INSTALLATION

TECHNOMAK's expertise in Offshore engineering, fabrication and installation services gives it a unique advantage.

## OFFSHORE CAPABILITIES

- Offshore installations
- Brownfield modification works
- Structural modification and upgrades
- Platform modifications
- Subsea rigid, flexible pipeline and cable laying
- Automatic pipeline welding
- Riser installation and Tie-ins
- Pipeline crossing and free span correction
- Subsea pile drilling, diving
- SPM installations
- Top Side modification, deck extensions, Piping, E&I works, Conductor repair and Well hook up





CHEMICAL INJECTION PACKAGES - KOC (KUWAIT)



## SKIDS & PROCESS PACKAGES

TECHNOMAK have handled various Skids and Process packages as below:

- Chemical Injection Skids
- Metering Skids
- Cartridge Filter Skid
- Potable Water System
- Dossing Skids
- Multiple Effect Distillation Evaporator
- Water Treatment Packages
- Pump/Valve Skids
- Produced Water Package
- Containerised RO Package
- Degasser Packages
- Electro Chlorination Package
- Mud Gas Separator
- Cartridge Filter Skid
- Mixed Media Filter Package
- Waste Water Filtration Units
- Filtration Packages
- Sea Coarse Strainer Skids
- Sodium Hypochlorite Package
- DNV certified Skids
- Demineralization Plant
- Surge Tank package
- RO Skids
- Skid Mounted Pressure Vessel Packages
- Containerised Dossing System
- HIPPS Skids
- Fuel Gas Conditioning package
- Pressure Regulating Skid
- Desalter Skid
- Self Cleaning Filtration Skid
- Dehydration Skid
- Separator Skid
- Debutanizer Skid

TECHNOMAK undertake complete package including Structural, Equipment, Piping, and E&I scope.

TECHNOMAK have engineering capability to develop detailed engineering drawings based on PID, develop 3D models and detailed fabrication drawings.





## PRESSURE VESSELS & HEAT EXCHANGERS

TECHNOMAK is ASME 'U', 'PP', 'S' and National Board 'R' certified for manufacturing and repairing Pressure Vessels and Boilers. TECHNOMAK have covered shed with EOT, equipped with rolling machine of 100mm capacity and weld overlay machines for cladding.

TECHNOMAK's engineering team develops Vessel design on PV Elite as per ASME section VIII div 1 and its QC team is well versed with ASME codes and PD5500.

TECHNOMAK manufactures all kinds of Pressure Vessels and Heat Exchangers (CS, SS, DSS, SDSS, and Cladded).





SHUT DOWN & PLANT MAINTENANCE - DUBAI

## TURNAROUND AND SHUTDOWN MAINTENANCE

The expertise in the turnaround & shutdown maintenance services and commitment to Safety and Quality makes TECHNOMAK unique to meet the project challenges.

TECHNOMAK's dedicated Project Management team, trained workforce, equipment and expertise in Mechanical, E&I, HVAC, combined with the in-house capability of scaffolding, surface preparation & coating and insulation help the Company to have an edge over the competitors.

We have established relations with selected shutdown and maintenance partners to provide qualified work force and resources on short notice.





MED EVAPORATOR - LIBYA

## SPECIAL GRADE AND EXOTIC MATERIAL FABRICATION

TECHNOMAK has a good track record of fabrication of special grade and exotic material such as Stainless steel, Duplex steel, Super Duplex, Cu Ni, Inconel and Titanium.

TECHNOMAK's qualified welders, welding procedures and dedicated area for the exotic material fabrication makes the Company a reliable partner for specialized jobs.





DUBAI INTERNATIONAL AIRPORT TERMINAL 3

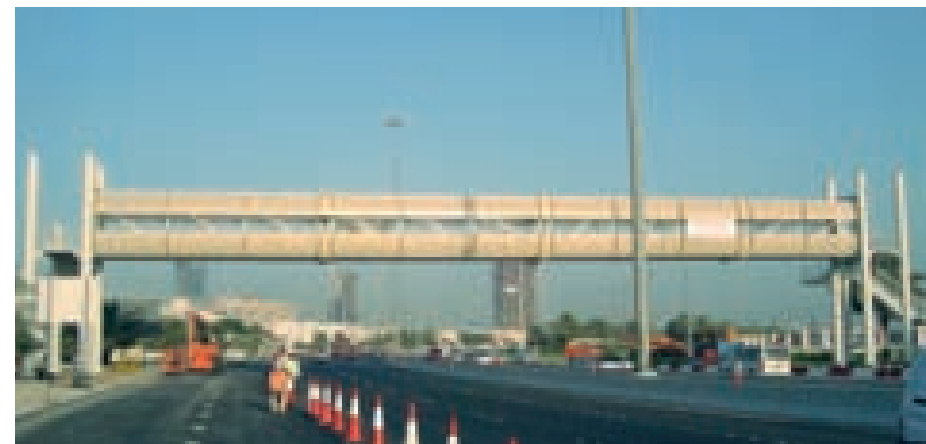


## STRUCTURAL & PIPING JOBS

TECHNOMAK's facility is designed in such a way that any kind of steel structural fabrication can be carried out by them. Availability of Beam Line and CNC plasma cutting machines makes them highly productive in structural fabrication.

TECHNOMAK undertake a wide range of steel structural jobs like Pipe racks, Storage Tanks, Ducts, Silos, Platforms, Stair Towers, Bridges, Columns, Pipe supports, Conveyor system.

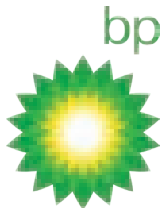
TECHNOMAK also undertake pipe spools fabrication and site erection of Carbon steel, Stainless steel, Alloy steel, CuNi, Duplex steel, Super Duplex steel, Titanium, Inconel, GRE piping, CPVC pipes.



# MAJOR CLIENTS



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*Our Reach*



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