



FUTURE PIPE INDUSTRIES

Complete Pipe System Solutions

PROJECT NAME

Qafac Methanol MTBE Facility Project

LOCATION

Messaieed, Qatar

COMPLETION DATE

1999

END USER

Qatar Fuel Additive Company Ltd. (QAFAC)
Qatar General Petroleum Company (QGPC)

CONTRACTOR – CONSULTANT

Chiyoda Corporation, Japan

PIPE SYSTEMS CONSULTING ENGINEERS

Dynaflow International Inc., U.A.E.

PIPE SYSTEMS SUPPLIER

Future Pipe Industries

PIPE SYSTEMS UTILITY

GRP Pressure Pipes.

DESCRIPTION

Qafac is Qatar joint venture between QGPC, the Chinese Petroleum Corporation (Taiwan), International Octane Ltd. (Dubai), and Lee Chang Yung Chemical Industry (Taiwan). The site is divided into four main areas: the utility area, MTBE Plant, Methanol Plant and the Offshore Area. The sales production of the plant is 600,000 tones per year of MTBE and 600,000 tones per year of chemical grade methanol. The plant start-up date is expected on July 1st, 1999.

SCOPE

Our scope entailed a single point responsibility, whereby we assume full responsibility for the piping system including:

- Engineering, Preparation of Isometrics, Bill of Materials & Spool Drawings.
- Surge & Stress Analysis
- Manufacture of pipes & fittings.
- On-Site Installation and Hydrotesting
- Packing and delivery
- Documentation

PIPE SYSTEMS

The project called for the production of a wide range of Glass Reinforced Pipes & Fittings, with pressure rating of 10 Bar and a diameter range from 25mm to 1600mm, and working temperature up to 500C. the field test pressure was 16 bar.

ADVANTAGES / SPECIAL ATTRIBUTES

- Our extensive experience in design gave us an advantage in prefabrication long sections for efficient installation. It also provide us with the ability to model the pipe systems and simulate the working conditions utilizing computer software to depict the pipe behavior under various loading conditions.
- A key success factor included the installation, within existing building structure, of long end coupler spools ranging in length up to 18 meters.
- Our site installation crew worked closely with the main contractor to ensure proper installation of pipes, fittings and provide prompt response to all contingencies.

