



FUTURE PIPE INDUSTRIES

Complete Pipe System Solutions

PROJECT NAME

Jamnagar Refinery Complex

LOCATION

Jamnagar, Gujarat State, India

COMPLETION DATE

1999

END USER

Reliance Petroleum Ltd., India

CONTRACTOR – CONSULTANT

Saipem, Italy – Bechtel U.S.A.

PIPE SYSTEMS CONSULTING ENGINEERS

Dynaflow International Inc., U.A.E.

PIPE SYSTEMS SUPPLIER

Future Pipe Industries

PIPE SYSTEMS UTILITY

Seawater Pipe

DESCRIPTION

This project called for the design, manufacturer and testing of 17KM of pipes for Seawater Distribution throughout the refinery. The refinery will have the capacity to process 22.5 million tons per year of crude oil when fully developed.

SCOPE

As part of our turnkey Single Point Responsibility, our scope included the design of a total of 17 KM of pipeline carrying seawater on trestles 6 meters above sea level. This length was distributed in sections of marine tank farm, onshore and shore link. The other sections are the approach trestle and jetty. The seawater outfall pipeline will carry the refinery cooling water offshore. This line is running from the refinery onshore to an offshore submarine diffuser. Our scope also included:

- Engineering: Isometrics (60 Drawings), Surge & Stress Analysis
- Manufacture & delivery of Pipes & Fittings
- Supervision and training of installation crews
- Documentation
- Testing

PIPE SYSTEMS

600mm Diameter, 12.5 Bar Glass Reinforced Epoxy Pipes & Fittings, manufactured According to EST 12.5 Standards.

ADVANTAGES / SPECIAL ATTRIBUTES

The client had full confidence in our abilities to handle a job of this magnitude with full responsibility, due to our extensive reference list of similar projects worldwide. The choice of material – class Reinforced Epoxy (Wavinstrong™) pipes was ideally suited for the harsh corrosive nature of the applications involved, and considering installed cost over the lifecycle of the project, was the most economical alternative possible. Our ability to co-ordinate the logistics involved in delivering to three different locations (Jebel Ali, Jubail & India), with various assembly process done in each location, was a further advantages. Our introduction of a double bell coupler with double locking strips (closure pieces – enabling flexibility in the restrained jointing system at the connection of the trestles) was one example of the innovative service that the client and contractor relied on.

