

Intake pipeline for Sohar crude pipeline project, Muscat, Sultanate of Oman

The Sohar Refinery Company was set up in 2003 to construct, commission and operate a new grass roots refinery in Wilayat of Sohar, Oman (250 kilometres northwest of the capital Muscat). Previously, Oman had only one refinery in Muscat and it was felt that such an oil-rich country should have a greater degree of independence in the refinery sector, hence this new facility.

This marine works project for an additional pipeline was an integral part of the Sohar crude pipeline project and involved a fixed price (lump sum) contract. The pipeline laid by BAM International was connected to the Oman Refinery's live plant and demanded very high standards regarding quality as well as health, safety and environmental standards.



Location Mina al-Fahal ORC Terminal, PDO complex, Muscat, Sultanate of Oman

Client Oman Refinery Company (ORC), Muscat, Oman

Contractor BAM International (formerly Interbeton)

Contract period January 2005 – March 2006

Contract sum USD 7 million (€ 5.7 million)

'This prestigious project for the Sultanate of Oman is of major importance to the country's oil and gas sector.'

Scope of work

Design and construction of an intake pipeline 850 metres in length and 48 inches diameter including a 4-inch chlorination line, supply and fabrication of concrete rings and ballast blocks, tie-in works to existing facilities, offshore intake structure and a temporary ro-ro jetty.

Temporary ro-ro jetty

A 150-metre temporary ro-ro jetty was constructed for the purpose of loading and unloading offshore equipment and precast elements for the marine works (150-metre causeway and a jetty head with concrete deck).

Pipe launching



HDPE pipe welding and launching operation

Offshore seawater intake pipeline

The purpose of this pipeline was to supply seawater to an existing freshwater basin for live refinery. From the intake station to the offshore intake structure it spans 850 metres. Here, the main activities for BAM International were:

- design of the high density polyethylene (HDPE) pipeline, an Al Fahal Road detour, an offshore submersed intake structure, ballast blocks and 'O' rings;
- installation and construction of all these elements in a coordinated manner.

The first priority was to prevent disruption of traffic on the Al Fahal Road. A detour was constructed and repairs were carried out, after which the onshore, near shore and offshore works were completed according to a tight time schedule. Pipe welding and launching were carried out in a 24-hour operation and the BAM-owned barge Barbeel was deployed for swift installation of the offshore intake structure. The whole operation, included road reinstatement, was completed on schedule.

Area inside the PDO complex



View of intake pipeline before sinking



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