

PROJECT MANAGEMENT

Project Management

International

Oil Terminal - Lekki, Nigeria

Client: Puma Energy
Location: Lekki Free Trade Zone, Nigeria
Period: September 2008 to Date

Oil Terminal – Lekki, Nigeria

Pre-Feasibility to Implementation

The client Puma Energy commissioned PMI to perform all required services and to co-ordinate all activities regarding the development of a potential new oil transfer and storage facility to enhance their trading position in Nigeria and the sub-region.

PMI initiated a pre-feasibility assessment, collecting input from traders to develop a strategy and determine the requirements of the facility to suit the trading potential.

The following steps were subsequently carried out by PMI in the development process of the terminal:

- Conceptual engineering
- On- and offshore geophysical investigations
- Feasibility Study, including the development of Front End Engineering Design (FEED) packages
- Co-ordination of procurement processes
- Project Management and Supervision of the design and construction



Engineering and Site Investigations

As part of the development process, concept solutions were formulated to suit the trading requirements of the Client.

The engineered solutions were further refined and tested against the assumptions that have a critical impact on project cost.

Hence, PMI performed offshore investigations – comprising of bathymetry, sub-bottom profiling and side scan sonar – to eliminate the major engineering uncertainties.

Similarly PMI performed onshore topography combined with a Dynamic Cone Penetrometer Test (DCPT) campaign to assess the foundation criteria for the tanks.

From this, the FEED packages were subsequently developed.

The main features of the project consist of:

- A Catenary Anchor Leg Mooring (CALM) Single Point Mooring
- Subsea 26" pipeline
- 410,000 m³ storage tank farm
- truck loading facilities

Procurement process and implementation

PMI have drawn up the Invitation to Bid (ITB) documentation for tendering and co-ordinated the procurement process.

The Construction works of the terminal are expected to be completed by end 2012. PMI is performing the overall project management and site supervision of the project ensuring that the Employer's Requirements are adequately addressed and the project executed in accordance with the required safety and quality standards.