



IGBTL BEIRA OIL STORAGE TERMINAL

Beira Port, Mozambique



Project Facts

Product

CFA Piles

Market

Industrial – Oil Storage

Client

GALP Energia

Main Contractor

Steval Mozambique Lda

Achievements

- High production rates allowed us to complete works ahead of time.
- Design and construction of the project successfully managed with the client.
- Zero accidents target was achieved through rigorous SHEQ procedures.

• About the project

A Joint Venture was created between Galp Energia (a Portuguese Company), IPG - Independent Petroleum Group (a Kuwaiti Company) and SPI - *Sociedade Gestão e Investimentos* (a Mozambican Company) to build a Bulk Storage Plant with a capacity of 67.000m³ of diesel, petrol and biofuel at the Beira Petroleum Terminal in Mozambique. The terminal will occupy a total area of 4.7 ha.

• Challenges

Ground conditions in the project area were very challenging, with very soft peaty clays extending to depths of between 21 and 26m bgl. Franki used its extensive experience in the area to overcome those difficulties. The approval process of the foundations design was lengthy causing some delays which Franki successfully recovered.

• The solution

The proposed development included six petroleum and water storage tanks of 20-32.5m diameter and various light supporting structures. Our proposal was to have the storage tanks founded on 650mm diameter CFA piles installed to depths of 26m and to have the light structures founded on similar piles installed to depths of 17m. Pile design was carried out from two static pile load tests conducted on site with reference to *Eurocode 7: Geotechnical Design*.