



KINYEREZI II POWER PLANT STATION

Dar es Salaam, Tanzania



Project Facts

Product

Franki Piles

Market

Power Generation - Fossils

Client

Toshiba

Main Contractor

Caspian Construction LTD

Achievements

- Piling works optimization to suit the client's requirements.
- Quality assurance procedures to avoid costs and time in re-work.
- Completion of contract within the contractual timeline.

- **About the project**

The Kinyerezi II power plant project in Ilala district in Dar es Salaam, Tanzania will be supplied with natural gas from the Mnazi Bay and add 240 MW to the national grid when completed. Franki Africa was contracted to provide the design and construction of the foundation piles for the plant.

- **Challenges**

The main challenge was installation of pile to the design depth to resist lateral and tension loads in increasingly competent soils and platform level changes introduced by the client. The delayed start of the project was another challenge, which required Franki Africa's utmost professionalism to complete the works 4 weeks ahead of schedule and with the quality fully accepted by the client .

- **The solution**

Installation of 520mm diameter Franki enlarged-base piles to depth of 9.0m in medium dense soil conditions to resist design loads of 1200kN compression, 600kN tension and 80kN lateral load. Optimization of pile design was achieved through back-analysis of pile load test data and working closely with the project engineers.