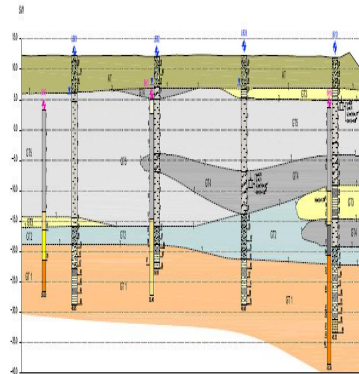




Engineering Structures for Life



## TRANSPORTS - PORTS

### New Coal Terminal at Port Beira

#### ABOUT

The new coal terminal at Port Beira is part of the project of the Moatize mine, in Tete province.

The coal terminal at the port of Beira is part of the investments carried out by CFM as part of the reconstruction of the Sena railroad, which is considered an essential corridor for carrying coal and other goods along the Zambezi Valley. The terminal is intended to export coal mined by Brazilian group Vale and Anglo-Australian group Rio Tinto.

The investment on the new terminal included engineering work, construction, mechanical and electrical work, as well as acquisition of equipment for processing and shipping coal and control of environmental quality.

GEG's scope of work in the new coal terminal at Port of Beira, in Sofala province, was to develop geotechnical and structural solutions for the new coal terminal. GEG services for its client, Odebrecht, included the feasibility study, value engineering studies, geological analysis, geotechnical modulation, consolidation studies, structural and geotechnical design.

The geotechnical site conditions at the location for the new coal terminal at Port of Beira are very harsh and conditioning. Several scenarios for global reinforcement and consolidation acceleration procedures were studied. The constructive solutions and schedules to be implemented along the stacker-reclaimer corridor, stockpiles, car dumper and railway access were also analysed and studied.

#### MORE IMAGES

#### FACTS

**Year:** 2012

**Client:** Odebrecht International

**Services:** Feasibility studies, Geological and geotechnical studies, Geotechnical and geological modeling, Consolidation studies, Geotechnical Engineering, Structural Engineering, Value Engineering

#### TEAM

#### LOCATION

Beira, Mozambique

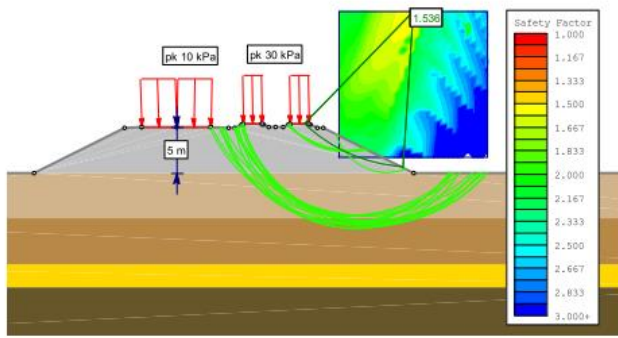


Figure 23 – Overall safety factor for stage 3 – End of construction

