

# Beleza and Hirgigo Power Plants

## Client

Eritrean Electric Corporation (EEC)

## Scope of Work

Design Review  
Tender Documents  
Project Management  
Construction Supervision

## Location

Eritrea

## Type of Activities

Architectural  
Civil  
Electrical  
Instrumentation & Control  
Mechanical

The Eritrean Electricity Corporation aims at improving the production capacity of two main stations in the inter-connected grid, namely Beleza and Hirgigo, which serves a number of major cities and surrounding rural areas. The company intends to produce 132 MW in addition to the current capacity of 151.1 MW through the erection of 3 engines (8MW each) in Beleza power plant and rehabilitation of Hirgigo power plant.

### Beleza Power Plant

ECG scope of works includes collecting, reviewing, analyzing and commenting on the tender package submitted by the Contractor. Erection of the new 3 engines include the following components:

- 3x 8 MW medium speed diesel generating sets with the associated mechanical and electrical equipment
- Site works including site layout, fence, gates, site grading, access roads, and landscape
- Tie-in with the existing fuel storage facility
- Tie-in with the existing firefighting facility
- Cooling water system

- Lube oil storage facility
- Control building
- Switch yard
- Water treatment system
- Transformers

### Hirgigo Power Plant

ECG prepares a complete set of tender documents with the relevant drawings, data sheets and spare parts to ease the process of issuing an international tender for overhauling 4 generating sets and common facilities.

Works cover:

- Overhaul of four engines
- Rehabilitation of common facilities including compressors, boilers, desalination plant, and sea water pumps.

ECG scope of work includes project management, and construction supervision, in addition to on-the-job training for qualified counterpart engineers and technicians.



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