

Ampliação do Molhe Norte

Gibraltar

North Mole Extension

Gibraltar

Work Description

The contract of the "North Mole Extension" is the extension of Quay/Breakwater located in the northwestern part of the peninsula of Gibraltar.

The extension of the existing Quay, 270 m, consists in the installation of 9 concrete caissons based on rockfill foundation and aims to increase the area of land available with the propose of building a new "Power Station" in this area.

This structure will be finished at elevation +4.00 m OD and the foundation to -8.00 m OD. From level -10.50 m OD to level -8.00 m OD runs a foundation formed by selected rockfill.

The 9 reinforced concrete caissons, approximately 2.300 ton/caisson, will be prefabricated inside the Port of Gibraltar using a slipform system.

The construction of each caisson starts on the Floating Dock "Ignatios" and ends with the caisson in floatation.

After conclusion, caissons will be towed to the North Mole where they will be sunk on the rockfill foundation previously executed using floating equipments, namely a dredger with backhoe and a pontoon.

The works will end with the execution of a top slab of *in-situ*.



Below description of the main quantities of this project:

- Caissons: 9 units;
- Concrete: 9.000 m³;
- Steel rebars: 850 ton;
- Sliding formwork area: 34.650 m²;
- Dredging: 20.250 m³;
- Rockfill: 15.000 m³.

Major equipment involved:

- Floating Dock "Ignatios" 4.000 ton of capacity;
- Sliding formwork system;
- Tower crane 6 tons capacity, 50 m distance;
- Dredge w / backhoe;
- 2 Tugs;
- 1 Floating Pontoon (50 m x 15 m) w/ 1 crawler crane 100 ton;
- 1 Rough Terrain Crane, 70 ton capacity.

Resumo da Obra

Work Summary

Cliente	Government of Gibraltar (by Casais, SA)
Tipo de contracto	Valor Global / Lump-sum
Construtores	Seth, SA (em consórcio)
Data de construção	2014-2015
Custo	€ 11.750.000,00

Client
Contract type
Contractor
Construction period
Cost



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