

**Terminal Multifuncional dos Socorridos
Câmara de Lobos - Madeira**
**Socorridos Multipurpose Terminal
Câmara de Lobos – Madeira Island (Portugal)**

Work Description

Seth, SA, carried out the remodelling of the Socorridos Multipurpose Terminal on the island of Madeira, in front of the Socorridos Stream at Câmara de Lobos.

This job involved the construction of a marine terminal to supply fuel to the Vitória Power Station on the island of Madeira.

This infrastructure, which supplies fuel from tankers moored about 560 m from the shore, comprises three buoys used to moor the ship, about 75 m of Ø10" fuel hose and 560 m of Ø12" steel pipeline.

The following work was carried out in accordance with the initial contract. Removal of 4 buoys and respective chains and accessories, concrete blocks and anchors.

The steel buoys weigh about 5 tonnes each and have a diameter of 4 m at the water line and a total height of 4 m.

(These four sets of buoys were removed from the sea in front of the Formosa breach, where the Shell discharging facility used to be).

Laying just three of these sets (buoys + accessories + plus blocks and anchors) in front of the Cimentos Madeira Marine Terminal near the mouth of the Socorridos Stream.

Construction of a 560 m sea-line of Ø12", 12 mm wall, steel pipes welded together. The pipe ends at a PLEM (Pipe-Line End Manifold) built of reinforced concrete. On shore, the pipe is connected to another pipeline (the construction of which was not a part of our contract) that delivers the fuel to the storage tanks.

The PLEM includes steel piping and a set of seven Ø10" hoses totalling about 75 m. A shut-off valve was installed between the two pipelines.

A Breakaway Coupling valve was fitted between the 1st and 2nd hoses.

The steel piping of the sea-line is protected with Reno mattresses (wire-mesh baskets 4.0 x 2.0 x 0.3 m filled with 5-10 cm crushed stone).

As an addendum to the initial contract, **Seth** was awarded the overhaul of the 4 buoys (shot-blasting, sundry repairs, painting and fitting of lanterns fed by solar panels).

The 4th buoy is located at the Vitória Power Station and will act as a spare buoy.

A Sea Mark Plan was prepared by the Portuguese Hydrographic Institute.

The Employer in this contract was EDM – Electricidade da Madeira, which acted in close co-operation with CLCM – Central Logística de Combustíveis da Madeira.


Resumo da Obra
Work Summary

Cliente	EDM - Electricidade da Madeira	<i>Client</i>
Tipo de contrato	Chave-na-mão Turn-Key	<i>Contract type</i>
Data de construção	2006	<i>Construction period</i>
Custo	EUR 1.800.000,00	<i>Cost</i>
Projectistas	Seth, SA	<i>Engineering</i>

