M´Bopicuá Logistic Terminal - Uruguay

A 15,000 m² PT slab on grade at a river harbour.

▲ *PT slab on grade before casting.*

M´ Bopicuá Logistic Terminal is a very important project that the Spanish Group ENCE has developed by the Uruguay River, near Fray Bentos in Uruguay and 10km from San Martin International Bridge that connects that town with Entre Ríos province in Argentina.

This river harbour is part of a large project that consists of a wooden chips factory, 1,000m² of buildings, 7km of access roads, the wooden chips storage area and the pier among the most important facilities.

The pier is 193m long and 65m wide and allows Panamax and Postpanamax ships.

Works on site lasted 23 months between 2001 and 2003 including engineering development and construction.

The pier was built by using circular cofferdams one by the other forming a large rectangular area, eventually filled with granular material. Over this, a PT slab on grade was executed.

Because of its previous successful experiences in PT slabs on grade in Argentina, VSL was contracted to execute this 15,489m² structure including the supply of the steel strands and VSL PT anchorages.

VSL Argentina also sent PT equipment and supervisors to achieve this important project.

The first 50m of the pier were designed to support heavy loads due to the operation of the harbour cranes.

Behind the pier, there is a large storage area surrounded by 12m wide streets also executed as PT slabs on grade.

This outdoor PT slab on grade is 25cm thick and consumed almost 140t of PT strands.

14,000 VSL 0.5” monstrand anchorages were installed. It was built in 17 stages of aprox. 850m² each.

VSL works started in July 2003 finishing in November 2003.

Scope of works performed

- Supply of PT strands.
- Supply of VSL Anchorages.
- Installation on site of strands and anchorages.
- Supervision of PT works.
- Supply of VSL Equipment.
- Stressing of strands.

▲ *Execution of the pier by using cofferdams.*

▼ *PT slab on grade while casting.*

▼ *Test made to confirm friction coefficients between concrete and soil using PE sheets and a layer of sand*

PROJECT
M´bopicuá Harbour

OWNER
ENCE

MAIN CONTRACTOR
SACEEM – Soletanche Bachy-CPC

CONSULTANT
Constructora Santa María

ENGINEER
Larrague & Asoc.

VSL ENTITY
VSL Sistemas Especiales de Construcción Argentina S.A.

EXECUTION DATES
July – November 2003

www.vsl.com

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