

Vietnam

Development Dinh Vu Island



Scope of work

- Dredging
- Reclamation
- Shore protection

Project

Landfilling and associated works stage 1 phase 1
Development Dinh Vu Island Haiphong.
Reclamation of the peninsula.

Location

Vietnam, Haiphong

Client

Dinh Vu Development J.V. C° Ltd

Period

1998 – 1999

Value

6.7 million Euro



**Dredging
International**

Marine & Waterway Contractor

Member of the DEME Group

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General Information

The aim of the master plan was to create an industrial zone adjacent to the Red River which is the main waterway in Northern Vietnam.

Following activities were required to achieve this plan :

- Dredging and reclamation of 13 ha industrial zone
- Construction of shore protection with gabions at sea front
- Construction of access road

Description of the Works

Dredging and reclamation :

The sand was dumped in a dump pit in the vicinity of Dinh Vu island. An access channel connected the dump pit and the navigation channel. The access channel and dump pit were made earlier by a cutter suction dredge. The dredged soil (clay) was stored in a long term settlement area on Dinh Vu island. The dredged soil quantity was 500.000 m³.

The sand to reclaim phase 1 stage 1 was dredged and hauled from the sandbanks in the estuary of the red River and from the Red River for the purpose of deepening the access to the port of Haiphong. The **TSHD River Bee** was put in to perform this task. The total quantity of dredged sand was approximately 1.200.000 m³.)

Due to the sand characteristics, very fine sand, and shallow dredging depths, working conditions were strenuous for the equipment. Numerous repairs had to be done. Also the water traffic made the work of our people even more difficult.

Prior to effectuate dredging operations, the borrow areas were screened on magnetic anomalies (electro magnetic survey) for the purpose of locating ammunition which have been found.

The sand dumped in the pit was re-handled and reclaimed on the Dinh Vu Island to build tank farms 1 & 2.

Dredging International NV executed the reclamation works with its own dry plant.

The reclaimed quantity after completion of works is of 942.000 m³.

A total area of 13 ha has been reclaimed.

Shore protection :

- ◆ construction of a pancake protected by weighted geotextile.
- ◆ use of vertical drains for consolidation right under the alignment of the dikes
- ◆ the construction of dikes consisting of rows of gabions/mattresses and gravel dikes

Main Equipment

- Trailing suction hopper dredger RIVER BEE
- Cutter suction dredger



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