Palm Island - Jebel Ali

Breakwater Construction
Contract n° JAP022/C42

Jan De Nul Group, a world leader in dredging and reclamation projects, was awarded the prestigious project ‘Palm Island Jebel Ali’, called ‘Palm Island II’ in Dubai in 2002 and is scheduled to finish the works in 2009.

Jan De Nul’s offer was the most interesting for developers ‘Nakheel’ because it made the link between the Dredging Works for the Widening and Deepening project of the Jebel Ali Port Entrance and the Reclamation Works for Palm Island, thus using the suitable excavated material in the Port of Jebel Ali for the reclamation of the Palm and hence offering the best price.

The reclamation project Palm Island II holds the creation of a 6 km long peninsula in the form of a palm tree, protected by a 200m wide and 17km long breakwater built around the island. 200,000,000 m³ of cap rock, sand, calcarenite and limestone are being reclaimed (partly originating from the Jebel Ali Entrance Channel dredging works) by the most...
powerful cutter suction dredges as ‘Marco Polo’, ‘Leonardo Da Vinci’ and ‘JFJ De Nul’, together with the trailing suction hopper dredges ‘Juan Sebastian de Elcano’, ‘Alexander Von Humboldt’, ‘Francis Beaufort’, ‘Gerardus Mercator’, ‘Taccola’, ‘Francesco di Giorgio’, ‘Pinta’ and ‘Nina’, who are dredging suitable sand at a borrow area located 30km offshore. This artificial peninsula shall be protected from the actions of the sea by more than 5.000.000 m³ (equivalent to 10.000.000 ton) of rocks varying from 0,1 kg to 7000 kg.

All rock is being hauled by land from the Emirate Ras Al Khaimah to Jebel Ali Port, where it is being loaded into rock barges and placed into the breakwater revetment by a fleet of excavators, dumpers and bulldozers owned by Jan De Nul.

Based on the successful construction of the ‘Palm Jebel Ali’ project, the even larger reclamation project ‘Dubai Waterfront’, located all around the Palm Island, was also awarded to Jan De Nul in 2006.