



W.D. Fairway successfully lengthened to world's largest dredger by Sembawang Shipyard



W.D. Fairway, the world's largest dredger, upon completion in Sembawang Shipyard.

In February 2003, we achieved yet another significant milestone when we successfully completed and redelivered to owners, Boskalis Westminster BV (the Netherlands), *W.D. Fairway*, the largest trailing suction hopper dredger. The successful execution of this highly complex and sophisticated project further strengthened the Company's excellent track record and expertise for the repairs and refit of such specialized vessels.

Sembawang Shipyard secured the major modification and lengthening of *W.D. Fairway* amidst tough international competition, based on our strong track record, experience and proven engineering design capability.

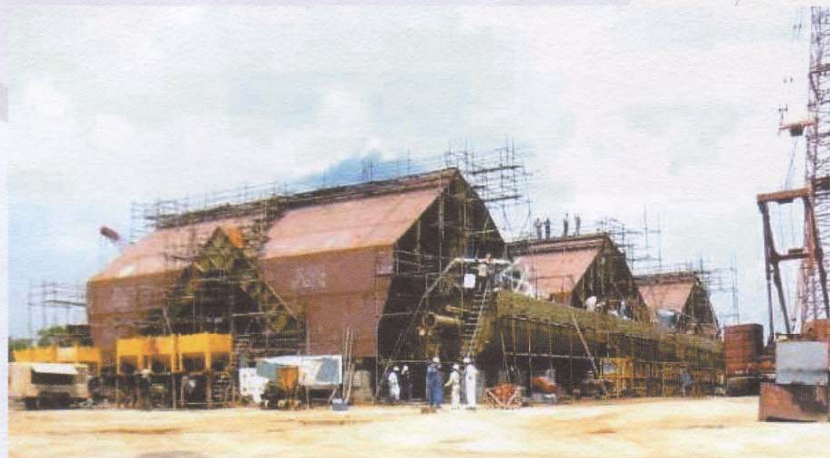
This major jumboisation project was executed in two phases, first phase being the fabrication of a new 4600 tonne mid-body in our subsidiary shipyard, Karimun Sembawang Shipyard. Critical second phase work was carried out in Sembawang Shipyard and major work included the installation of the new mid-body section, which lengthened the dredger by 54 metres. The overall length of the vessel increased from 173.15m to 227.45m and the vessel's hopper capacity was increased from 23,347m³ to 35,500m³, making it the world's largest

trailing suction hopper dredger.

Other major work executed by Sembawang Shipyard's experienced Project Management Team included installation of new main deck blocks to increase the depth of the vessel from 13.10m to 16.85m; renewal of the bilge blocks totaling 500 tonnes steel to increase the thickness of the bilge plate to 65mm so as to increase the longitudinal strength; installation of a new bulbous bow and ducktail to improve the sailing performance of the dredger; modification of all dredging equipment, jet water line,

hopper suction line, discharge line and hydraulic line totaling some 12,000m and the installation of 5,654m, 6.6kV high voltage electrical cable as well as 21,800m low voltage cables.

The successful completion of this project testified to Sembawang Shipyard's ability to meet the high standards of work required for this specialized project within a very stretched schedule. For instance,



Construction of the new 54 metre mid-body at Karimun Sembawang Shipyard.



the extremely demanding lengthening tolerances for the converted vessel, were almost four times higher than standard requirement of International Association of Classification Societies (IACS).

For a project of such magnitude to be executed successfully, it requires the full contribution and cooperation of all involved. Hence, the many months of close cooperation between the project teams from the shipyard and owners, has led to a mutually beneficial relationship and strong friendship of the project team members and further reinforced the excellent relationship between Boskalis and Sembawang Shipyard.

During a re-delivery ceremony held onboard the vessel at Tanjung Pelepas, Mr Kees van Nees, Director of Royal Boskalis Westminster NV, expressed Boskalis' full satisfaction on the major lengthening work completed and commended the project management team for a job well done. The *W.D. Fairway*, is currently deployed in dredging activities in Malaysia.

In tandem with the high dredging and reclamation activities in the Far East in recent years, Sembawang Shipyard has successfully build up our expertise for the repair and refit of such specialized vessels, through a



Extensive fabrication work carried out in our steel workshop in Sembawang Shipyard.

combination of good quality work, expert technical knowledge and project management on the dredgers' unique technical requirements, and timely delivery. We are proud to count world major owners and operators of dredgers such as Boskalis Westminster as our regular customers. The successful completion of the lengthening work on the *W.D. Fairway* further reinforced Sembawang Shipyard's reputation as the premier shipyard for such specialized conversion. ↓



Lengthening work in progress.



Mr Ong Poh Kwee, Executive Director of SSPL with Mr Kees van Nees, Board of Managing Directors of Royal Boskalis Westminster NV, during the re-delivery ceremony onboard the vessel in Tanjung Pelepas.

