

## KNM does Malaysia proud

Malaysian company, KNM Steel Sdn Bhd (formerly known as KNM Steel Construction Sdn Bhd) were given the task of designing and building the three LPG horizontal mounted tanks for Oiltanking in Singapore. Already well known for its ability to handle extremely large fabricated items, such as the 105.5 m tall, 1,640 tonne propane splitting tower for the Propane Dehydrogenation Plant in Gebeng, Kuantan and a 102 m tall roof support mast, weighing in at 250 tonne, for the Aquatic Centre at the National Sports Complex, KNM took the construction of the three 3,500 m<sup>3</sup> capacity, 812 tonne bullets in its stride.

Constructed at the company's facility in Bukit Rambai, Malacca, the feat took just over a year from conception to delivery, the first of the three tanks being delivered on 29<sup>th</sup> April 2001, the third and last tank being delivered on the 21<sup>st</sup> May. The tanks, which are constructed from 48 mm thick BS1501-

224-430A L740 carbon steel, and designed to BS 5500, will be used to hold propylene, as part of Oiltanking's intentions of meeting the shortfall in propylene in Jurong Island and elsewhere.

On completion of each tank, heavy-lift specialist, Mammoet, now part of the Van Seumeren Group, using powerful, 10- and 12-line, four in line double wheeled bogie tugs (for a total of 178 wheels!) to transport the bullets from KNM's facility at Bukit Rambai to Singapore Island by a specially outfitted barge.

(Note: As an aside, Dutch groups Mammoet and Smit International have established a joint venture (Mammoet-Smit) to salvage the Russian submarine Kursk. The joint venture will combine Smit's maritime expertise with Mammoet's extensive experience in complex lifting and transport projects.)

**Finally, all three tanks are united on site, where they will eventually be covered, leaving only the top access hatches visible**



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