



### Vale Main Jetty

#### Project

Vale Malaysia Manufacturing Project Phase 1A at Teluk Rubiah, Lumut, Perak.

#### Client

Vale Malaysia Manufacturing Sdn Bhd

#### Contract Sum

RM825,403,673

#### Contract Period

Aug 2011 ~ Jan 2014 (31mths) - Including VO addition

#### Client's Engineer

Murray & Roberts Marine (M) Sdn Bhd

Vale SA, the world's largest iron exporter, awarded the contract to BMS-JV to design and build the marine works for Vale Manufacturing Malaysia, of which SYS has a share of 20 percent. The jetty will be part of Vales Regional Distribution Center in Perak with a handling capacity of 30 million tonnes of iron ore a year. The works includes :-

- Trestle : (1,800m x 16m wide road)
- Transfer Platform A : 225m x 74m wide
- Transfer Platform B : 160m x 70m wide
- Import Wharf : 515m x 42.55m wide
- Export Wharf : 560m x 22m wide

#### Design Parameters

- Design Live Load  
10-15 kN/m<sup>2</sup>
- Max axle load 85 MT
- Deck levels  
+10 CD (TP & MIW)  
+8.5 CD (MAT & MEW)
- Draft 25m (MIW) & 21m (MEW)

#### Major Quantities

Element	Quantities	Unit	Largest Element	Unit
Piles	903	nos	100	m
	56,600	ton	97	ton
In-situ Concrete	58,783	m <sup>3</sup>	n/a	
Precast Concrete	6,247	nos	120	ton
	66,586	m <sup>3</sup>	48	m <sup>3</sup>
In-situ Rebar	10,217	ton	n/a	
Precast Rebar	14,187	ton	n/a	

