

Vale, Malaysian Iron Ore Port Project

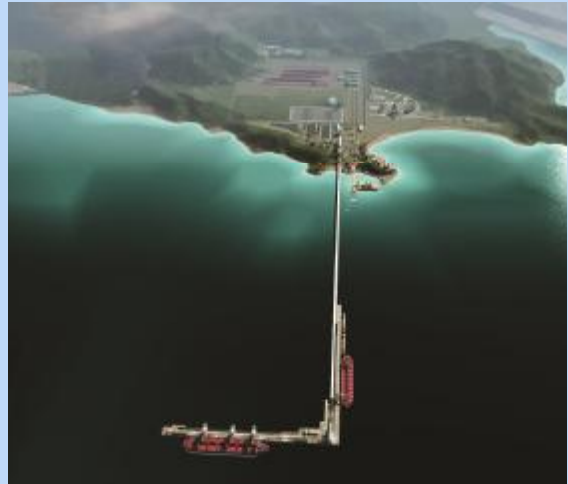
DemcoTECH completed the entire materials handling design and engineering for Vale's international expansion project to establish a regional iron ore distribution centre in Lumut, Perak, Malaysia.

FEL1 work commenced on the facility in 2009 and the first 400,000dwt vessel carrying ore to the Malaysian Terminal was off-loaded early in 2014. The distribution centre includes an ore stockyard with blending facilities, import- and export Terminal and sampling facilities. The final stage of implementation will see the Terminal handling 200MTPA and includes :-

- 3,500tph grab-type ship unloaders
- 10,500tph conveyors
- 10,500tph stackers and reclaimers
- 8,000tph ship loaders

DemcoTECH were appointed to engineer the materials handling system from FEL1 conceptualisation through to FEL3, and thereafter were appointed as Vale's Engineer for the implementation phase up to commissioning, addressing the materials handling system. DemcoTECH conducted finite element analysis (FEA) on the Machines, conveyor dynamic analyses and material flow analysis for Vale.

DemcoTECH provided operational readiness services including operational and maintenance modules, training of Vale's personnel, plant commissioning and testing. DemcoTECH also provided simulation modelling support and generated in-house, the graphics and animations of the Plant, design for this system.



Client	Vale
Commodity	Iron Ore, pellets
Contract Type	Clients' Engineer; Design and Engineering with site supervision.
Duration	2009 – 2014
Location	Lumut, Perak, Malaysia

DemcoTECH Engineering

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