

Stockyard extension study for Vale Oman Industrial Complex

DemcoTECH Engineering carried out a FEL2 concept study for the stockyard extension (Phase IIA) of the Vale Oman Industrial Complex, based on concepts initiated by VALE.

This design aimed at providing maximum flexibility throughout the facility such that a variety of products can be imported, blended, processed and exported. The system capacity was approximately 10,000 tph on all conveyors and stockyard machines.

The scope of work covered

- Verifying the process capabilities and maximising the flexibility of the system.
- Basic design and selection of all conveyors and stockyard machines.
- Pricing the conveyor mechanical components.
- Preliminary design, quantifying and pricing of all structural steelwork for conveyors, transfer houses and facilities.
- Basic design, quantifying and pricing of all civil foundations for conveyors, transfer houses and facilities.
- Basic design and quantifying the electrical and instrumentation requirements for the conveyors.
- Quantifying the dust suppression components.

The concept study provided an estimate for the Phase II material quantities for the installation of 27 new conveyors, as well as the extension of two of the existing conveyors and interfacing with the existing plant.

VALE'S distribution centre and pelletising plant at the Port of Sohar Industrial Complex in the Sultanate of Oman enables large amounts of raw iron ore to be stored on a just-in-time basis and serves as a hub for meeting growing demand for iron ore products in the Middle East, North Africa and Asia, including India.

Since it began operating in Oman, Vale has played a major role in the construction of solid industrial infrastructure, promoting local economic development through investment focused on preserving the environment, generating jobs and building up the local supply chain.

DemcoTECH Engineering is a specialist bulk materials handling and niche process plant company offering services from concept design through to project completion to the power generation, cement, mining, metallurgical, manufacturing and port handling industries. Services include conceptual design, feasibility studies, design, engineering, procurement, expediting, construction and commissioning. Plant supplied by DemcoTECH includes troughed conveyors, air-supported conveyors, pipe conveyors, slewing stackers, pivot boom conveyors and mobile conveyors.

Client	Oman Pelletising Company LLC
Commodity	Iron Ore
Contract Type	Concept Study
Duration	April – May 2012
Location	Sultanate of Oman

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