

Grindrod Richards Bay Multiple Product Terminal

DemcoTECH was appointed as an EPCM Contractor responsible for developing the conceptual design for this Terminal. The Terminal was to be developed in stages and DemcoTECH was responsible for all materials handling scope. Following the conceptual design the Project was implemented and DemcoTECH's role comprised detailed design and engineering followed by project management of all fabrication, procurement, scheduling, erection and commissioning. DemcoTECH was the Client's Engineer responsible to deliver the project.

The site is an extremely congested one, which posed a significant challenge to the design. Products handled predominantly include coal, sulphur and rock phosphate. The bulk materials handling equipment comprises :-

- Road truck discharge hoppers and feeder
- Rail tippler with reclaim tunnels and feeders
- Multiple troughed conveyors
- Multiple pipe conveyors in triangular gantries with travelling maintenance trolleys
- Warehouse storage with trippers
- Mobile plant reclaim hoppers and feeders
- Stockpile with feed conveyors
- Multi-position moving heads

This Terminal is designed to handle in excess of 4MTPA, delivered and dispatched by rail, road and sea port.

DemcoTECH Engineering is a specialist bulk materials handling and niche process plant company, offering services from conceptual 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, rail-mounted slewing boom stackers, pivot boom conveyors and mobile conveyors, road load-out stations, rail tipplers.



Client	Grindrod Terminals
Commodity	Coal, Sulphur, Rock Phosphate
Contract Type	EPCM (Design, engineering, procurement, erection, commissioning)
Duration	Staged, 2007 to 2009
Location	Richards Bay, KwaZulu-Natal, South Africa