

Limestone Handling and Processing Study for NPC-CIMPOR

DemcoTECH Engineering, together with Kantey & Templer, was appointed by NPC-CIMPOR to complete a concept study for the New Limestone Handling and Processing Project at its Durban Works.

The scope included

- replacing the tippler reclaim conveyor, as well as upgrading the head chute with new controls and electricals.
- replacing existing clinker conveyor to 500 tph.
- installing a new 10,000 ton clinker silo with a 500 tph clinker feed conveyor and a 200 tph reclaim pan conveyor.
- supplying a new pressed clinker airslide feed to the existing two silos and an aerated reclaim system capable of extracting clinker at 200 tph.
- supplying the required dust and venting systems for the new and upgraded plant.

This concept study included all the civil, structural, mechanical, electrical and control disciplines associated with this expansion. The concept study thus provided NPC-CIMPOR's Durban Works with a completely integrated plant, capable of achieving the plant's operational requirements to store 10,000 tons of additional clinker, as well as storing and reclaiming limestone and pressed clinker in the existing silos.

NPC-CIMPOR is a manufacturer and distributor of cement, concrete and aggregate products to the hardware retail, ready-mix, concrete product and construction industries.

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, rail-mounted slewing boom stackers, pivot boom conveyors and mobile conveyors.

Client	NPC-CIMPOR
Commodity	Cement
Contract Type	Concept Study
Duration	Six months (2012)
Location	KwaZulu-Natal, South Africa

DemcoTECH Engineering

Modderhouse, Moddercrest Office Park, High Street, Modderfontein
PO Box 9624, Edenglen, Gauteng 1609 South Africa

+27 (0) 11 608 4355 info@DemcoTECH.com www.DemcoTECH.com