

Introduction to Beira Coal Terminal - TCC8



Stockyard and Rail Siding





TCC8 Unloading at a Glance

- Trains with 43 wagons, each of 63T capacity enter the site on a single rail line.
 - They are offloaded by 4 excavators, that straddle the wagons and use conventional buckets.
 - The excavators unload into 4 mobile hoppers which run on rails and straddle the unloading conveyor.
 - Each mobile hopper has a belt feeder to control the flow of material onto the unloading conveyor.
 - The long travel of each hopper is controlled remotely by the excavator driver.
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- Design Speed – 2,000 tph
 - Optimum Capacity – 1,800 tph
 - Monthly Average – 1,700 tph
 - Monthly Average Un/Time (1:53Hr/Train)

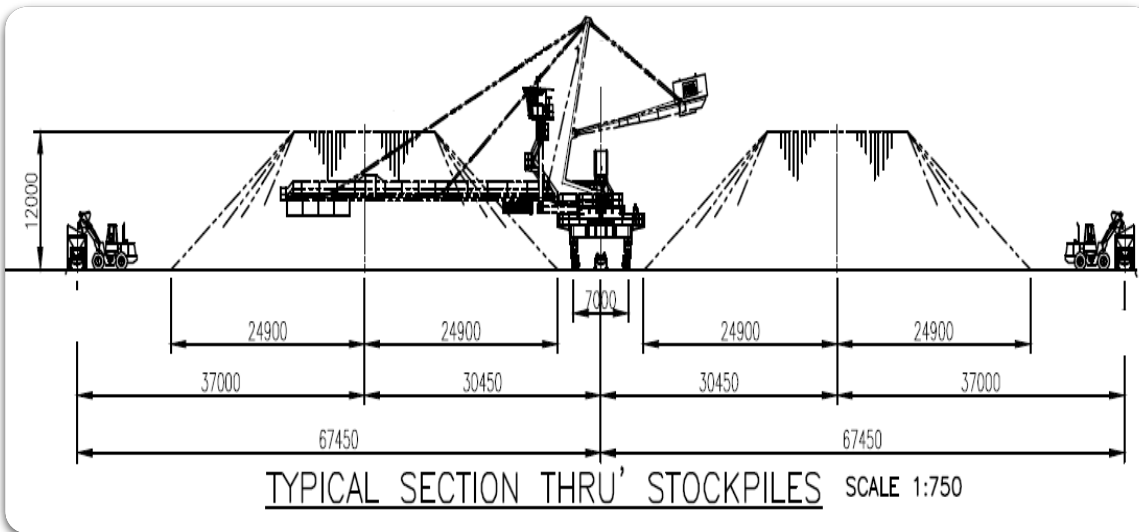
FEL Fleet – Caterpillar 972H and Unloading Line



TCC8 Stockpiling at a Glance



- The unloading conveyor system feeds a single rail mounted stacker unit which was constructed by FAMAK .
- The stacker produces longitudinal stockpiles, A and B, on either side of the stacker
- The maximum stockpile height is 12.8 meters (12.0m working height) with a base of 49.8 meters.



Stockyard Capacity

Stock Yard Total Capacity – 240,000ton

Parameters – 0 to 520 meters

Operational by Stacker – 9 to 520 m



Stock Pile Building – 5 Pile 2 Bench Chevron



TCC8 Vessel Loading/Reclaiming at a Glance



- Caterpillar 972H Front End Loaders feed coal from the stockpiles into reclaim hoppers that straddle two 2,400tph reclaim conveyors. These feed a single loading conveyor of 2,400 tph capacity which in turn discharges into a Splitter bin that feeds two Ship loaders each of 1,200 tph capacity.

The 2 Ship loaders are capable of slewing, luffing and have a telescopic feature. This provides the flexibility to load vessels of varying freeboard under changing tide and air draft conditions.



- Design Speed – 2,400 tph Capacity
- Optimum Capacity – 2,200 tph
- Monthly Average – 1,750 tph
- Average Loading Time – 30 hrs/39,000 ton Vessel



Stockyard A and B – Reclaim for Loading to outer Conveyors



Splitter Bin / Surge Bin



A wide-angle photograph of a large-scale industrial coal processing or export facility. On the left, a massive, dark conical pile of coal dominates the foreground. To the right, a long conveyor belt system, supported by metal structures, extends into the distance. Several tall, slender light poles are spaced along the conveyor. In the background, more industrial buildings and cranes are visible under a cloudy sky. A large, vertical plume of white steam or smoke rises from the facility, partially obscuring the sky. The ground in the foreground is wet and reflective, showing tire tracks and puddles.