



KIOCL Limited
Electrical Works
for the Iron Ore Fines Handling System at
Pellet Plant, MANGALORE



SAINT-GOBAIN

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1. SYSTEM DESCRIPTION

- 1.1. This specification covers the equipment and connected works for conveying the Iron ore fines from Storage Shed no-2 to the 8000 tons RCC Storage silo & from there to the 600 tons day Bin in the Ball mill grinding circuit at Pellet Plant, KIOCL Ltd, Panambur, Mangalore.
- 1.2. The brief description of Iron ore fines handling system is furnished below to enable the BIDDER to understand the system envisaged. This description has to be read in conjunction with the iron ore fines handling System Layout Drawing No. P 10 04 L 00 018 R3 enclosed with this specification.
 - 1.2.1. The Iron ore fines handling system consists of storage shed of dimension 346 m x 50 m of capacity 2 Lakh tons. The shed is provided with a Bridge reclaimer of capacity 4000 TPH & running along the length of the shed on a track width of 40 m.
 - 1.2.2. The material is transferred from Reclaimer conveyor to conveyor CB-86. This conveyor CB-86 is an existing horizontal conveyor of 1000 mm width & 3000 TPH capacity, runs from south to north in the western side along length of the shed.
 - 1.2.3. The material is transferred from conveyor CB-86 to conveyor CB-93. This conveyor CB-93 is an existing inclined conveyor of 1000 mm width & 3000 TPH capacity. This conveyor shall be extended to a length of 9 meters to discharge the material on to Conveyor CB-94.
 - 1.2.4. Conveyor CB-94 shall be an inclined conveyor of 1200 mm width & 3000 TPH capacity, installed on the northern side of the Shed-2 running parallel to the existing conveyor CB-424. The material from Conveyor CB-94 shall be discharged to Conveyor CB-95.
 - 1.2.5. CB-95 shall be an inclined conveyor of 1200 mm width & 3000 TPH capacity runs between the discharge end of Conveyor CB-94 and the top of the RCC silo. The material from Conveyor CB-95 shall be discharged to RCC silo.
 - 1.2.6. The silo bottom shall be provided with an Apron feeder for material discharge.
 - 1.2.7. The Apron feeder shall discharge the material onto a Grizzly screen. The material shall be screened for over size & foreign materials in Grizzly screen & the underflow material shall be transferred to conveyor CB-96.
 - 1.2.8. CB-96 shall be an inclined conveyor of 1400 mm width & 1500 TPH capacity which will transfer the material to the existing conveyor CB-86C.
 - 1.2.9. The conveyor CB-86C will feed the material onto the existing day bin of 600 tons capacity. The tail end of conveyor CB-86C has to be suitably modified to receive the material from Conveyor CB-96.

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1.2.10. The over size / foreign materials shall be discharged to Over size material conveyor CB-96A through Vibro feeder arrangement. Conveyor CB-96A shall be an inclined conveyor of 800 mm width & 750 TPH capacity, which will dump the material on to a collection pad.

1.2.11. A hopper shall be installed above the tail end of the existing conveyor CB-86 for unloading the material from tipper directly onto the Conveyor CB-86. Both the material from Reclaimer as well as the tipper will be conveyed by Conveyor CB-86 which will be discharged on to Conveyor CB-93

1.3. System Duty

All the equipment shall be operated continuously for 24 hours per day and 365 days per year at their rated capacity.
