

Success Story

Industry Segment: **Steel**

Bridge Type Reclaimer - Machine Control



The Customer

The company is engaged in mining and palletisation of iron ore on the western coast of India. The ore is then transported for exports to the nearest port of Mangalore.

The Application: Bridge Type Reclaimer

The bridge type conveyor has a capacity of 3000 Tons/hour used for reclaiming ore stored in a shed which is 500 m x 50 m (approximate). The reclaimer runs across the shed and loads it to various conveyors depending on the customer's requirements to transport the ore to palletisation plant or ship yard for loading. The entire control equipment is housed in a control room, located on the moving reclaimer, powered through a cable reeling drum and some critical signals through slip rings.

**"Our confidence levels in the reliability of the operations
has got a big boost."**

The Challenge

It is a 24x7 operation, and a critical equipment which feeds the plant. Hence reliability is a key issue. Simplicity in maintenance had to be ensured so that users can easily manage it. A very specialized PLC with a hot swapping capability was used. The I/Os are distributed in such a way that functioning of one group does not affect the others. The challenge was to better the existing machine performance.

The Solution

The solution included design and execution of:

- PLC
- Retrofitting in the existing system with minimum downtime
- Training the users
- Fault diagnosis

The Benefits

- Minimum downtime
- Reliability

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