

AUTOMATION OF CIRCULAR STACKER RECALIMER AT SHREE CEMENT LTD.



PROJECT : Circular Stacker Reclaimer.

LOCATION : Beawar, Rajasthan.

CLIENT : Shree Cement.

SERVICES : Design, Supply & Field Services.

DESCRIPTION

Shree Cement is ranked among the top five cement manufacturing groups in India. It primarily works in Cement and power sectors. It has a turnover of 3500 crores and cement capacity of 13.5 million tons per annum. Its cement plants are located at Beawar, Ras, Khushkhera, Jobner and Suratgarh in Rajasthan and Laksar (Roorkee) in Uttarakhand

Sofcon successfully commissioned the Circular Stacker and Reclaimer system, which is one of the unique systems of Scrapper Type in India.

BENEFITS

The Circular Stacker and recalimer System uses drives to control the luffing and slewing operations of Stacker and Reclaimer. It uses Rockwell Allen Bradley PowerFlex 750 Series drives to control this operation. The System also includes Allen Bradley ControlLogix Processor to control the drives, I/Os as well as MCC Panels.

The communication between Stacker and Reclaimer is done through dedicated wireless communication system which extends to provide flexibility for operation and maintenance for the operator.

PRINCIPAL FEATURES

- System can be controlled without operator from Control Room.
- Faults and Alarm Analysis on SCADA
- Easy to find the interlocks and permissions on SCADA
- Overall Efficiency of Stacking Improved.
- Instead of Hard-wire communication entire controlling is done on wireless communication system.
- Wireless technology monitors system remotely.
- Wi-Fi connectivity to any Wi-Fi enabled device eg. Laptop, PDA, Smartphones etc.

