# PROTOCOL

Continuous Casting Monitoring and MIS for Vizag. Steel Plant, Visakhapatnam

Vishakapatnam Steel Plant is one of the largest steel plants in India with the best manpower to steel tonnage ratio. It is also one of the successful government enterprises and built with Russian technology.

At VSP, the state-of-the-art achieved at every level is a synergy that has helped RINL set records very few steel companies in the world can match. A steel complex that comprises the tallest of Coke Oven Batteries; the largest of Blast Furnaces; the most efficient of Converter Shops; and the most trouble free, high speed mills.
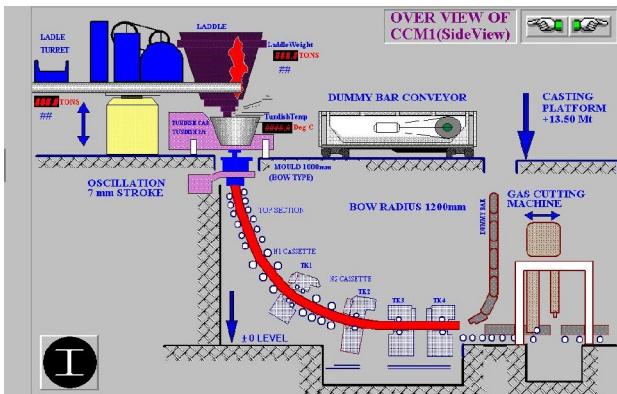
All designed to work in unison and produce 5.6 lakh tonnes of Pig Iron; 2.32 million tonnes of Saleable Steel; and offering a wide range of Long Steel Products. Pollution is also kept to the minimum using several measures.

Right from having the only smoke less charging process in Coke Ovens to Dry Quenching of Coke, from Extensive Gas Cleaning facilities to highly efficient Dust Extraction systems, from elaborate Water Treatment Plants to Noise Abatement systems, all of which means that all toxic solids, liquids and gases are reduced to harmless compounds and by-products with commercial value.
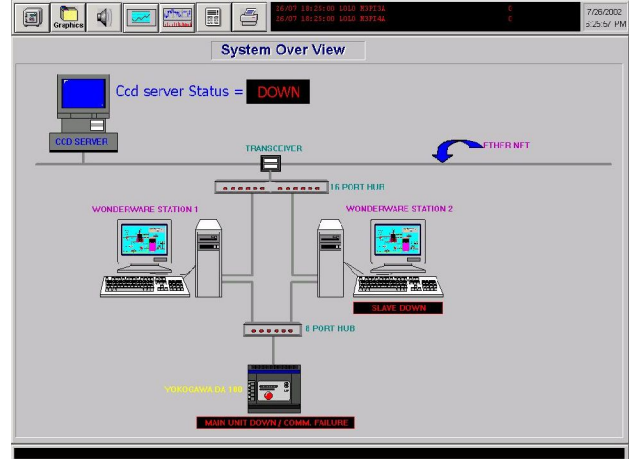
To update their systems to the current technology they have upgraded their systems with Yokogawa Data Acquisition systems. They are using our HMI to collect data from the Russian made machines and transfer this data to their existing Novell Network.

Protocol provided VSP with solution where the collected data being collected from Yokogawa's DARWIN system via an Ethernet link and is converted to a C file format, which their existing Novell Software can read and then transfer to other nodes on the network. This file is created every 5 seconds.

Two machines in redundant configuration have been setup to monitor the strand manufacture in parallel. In case the master fails

the slave PC continues to update the Novell server so that there is no loss of data to any other stations getting data from this section.

Reports are locally generated for each of the machines

SMS-REPORTS						
SECTION : MOULD FLOW				DATE : 06/11/2001		
			CCM-1			
SL:NO	DATE	TIME STAMP	MOULD FLOW S1 M1FI1M	MOULD FLOW S2 M1FI2M	MOULD FLOW S3 M1FI3M	MOULD FLOW S4 M1FI4M
1	11/6/2001	10:32:07	0.06	0.10	0.03	0.09
2	11/6/2001	10:32:31	0.06	0.10	0.03	0.08
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so that they can study critical data like speed, etc. when problems occur.

To find out more about our other installations write to us at

Projects Group
Protocol Automation Technologies Pvt. Ltd.
#2, Avensdale, 5 Moyenville Road,
Langford Town, Bangalore - 560025 (INDIA)
Ph.: +91-80-2100459/2100460
Fax: +91-80-2076635

or download case studies and other data from our website
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