Power Plant SCADA System

Solution Partner : Siemens
Customer : Lafarge Holcim
Segment : Cement

Replacement of several old independent control and monitoring systems with one main SCADA System

Requirements of the customer :

• Full SCADA renovation for the Power Plant
• Design and built project.
• Replacement of S7-400 PLC with new S7-400H redundant system.
• Including Y-link system to link existing IOs to the new redundant PLC Profibus Network.
• Including Additional Remote IOs to monitor the temperature of Generators bearing, and replacing old Modbus based remote IOs
• Supply of 2 main Siemens IPC servers with Siemens WinCC 7.3 redundant servers configuration
• Supply of VGA extenders to install the screens HMI 50 meters away from the IPC IT cabinet.
• Replacing old scada Systems from ILTIS and BJORGE with newly developed screens in WinCC by AUTOMATE.
• Supply of Web based interface to monitor the system through IPAD and smartphones for 5 users, based on Siemens WebUX.
• Integration of Bacnet communication in WinCC through OPC server.
• Integration and commissioning of newly installed temperature sensors, flow meters ….
• Re-wiring and design of complete new profibus network.
• Additional Works: supply of new counter desk to accommodate up to 12 Screens, with completely new platform.
**Implementation** by the solution partner:

- Full scope delivered as per client requirements design + built.
- Deliver a full control, and monitoring system
- Continuous Support and availability.
- SIEMENS TIA offered by automate through our excellent expertise

**Benefits** for the customer:

- SIEMENS S7-400H eliminates shut down time and provide high availability (24/7)
- Individual computers were used and new clients platforms ensuring system is up to date
- As system is fully automated and doesn’t require any personal intervention, reports are generated automatically.
- By using highest product quality, fault detection and event logging that allows to trace problems causes. Most of analog signals are archived, that allows monitoring and evaluating system behavior fort he past period.
- Locally developed up to date system on a single platform instead of 3 outdated systems allowing easy maintenance and high availability at all times