

## Case Study: Steel Plant Automation System

**Provider Name** : KALKI Communication Technologies (P) Ltd.

**Client Name** : Multinational Utility Automation OEM

**Project Title** : Steel Plant Automation System

### The Requirement

The client, a Major Automation Multinational required for their end customer project, SCADA Design, Engineering and Commissioning Support. The project involved Steel Plant Automation of the Sintering plant. Kalki engineering and field services team, sat with the client team to understand the specifications and carried out the design, development, PLC field drawings, SLD creation and tag database creation, and commissioning and hand-over at site.

### The Solution

The following Resources were utilized to carry out the Engineering and Design tasks:

1. GE Fanuc CIMPLICITY 5.5
2. GE 90-30 PLC
3. End-Customer specifications
4. Communication Topology and Interconnect details

The CIMPLICITY platform runs on Microsoft NT System. The requirement consisted of one SCADA server and the number of workstations varied from 1 to 4 in each site. There were a total of 2 sites in the project.

The entire drawings, Engineering and Single Line Diagrams (SLD) and system configuration were carried out in the development center. The Engineering and Interlocks were programmed and the SLD as per the specification were developed on CIMPLICITY. The PLC's were tested with the stated DI/AI/AO points and communication issues checked. The fully configured system was made available for Factory Acceptance Test (FAT) by the end-customer. After approval the system was shipped to site.

At site, based on the detailed startup and commissioning plan, made an action plan to complete the CIMPLICITY implementation, field-wiring and loop checking as well as communication establishment and data integrity checking. These steps were carried site in the order of readiness of the different sites. Once these were completed, the system was ready for Site Acceptance Testing (SAT) and hand-over.

## Case Study: Steel Plant Automation System

### Tools Used:

- GE Fanuc CIMPLICITY 5.5
- GE 90-30 LM 90 tool
- NT Operating System Utilities for service management