



Reference List of Projects Executed

Some of our project references and esteemed clients are listed below for your perusal:

- **Project:**

Automation of Packing Plant and Crusher Section

Client:

Prism Cement Ltd., Satna

Automation System:

Siemens S5 135 U and COROS LS-B, 3964R over CP525

- **Project:**

Automation of Shuttle Kilns & Driers

Automation of 3 nos. Shuttle Kilns & 19 nos. Driers. **First implementation of PCS7 in India.** The plant was changing over from a Relay Logic control with Push Button operation to PLC based control with Operator Station; hence a lot of interaction with the Process personnel was involved. Implemented a MIS using DDE link to Excel. Training of Clients personnel was carried out at site.

Client:

Siemens Ltd. / Jayashree Insulators, Halol

Automation System:

Siemens PCS7 V 4.0, CPU 416-2DP Slot PLC, Profibus, Dual Monitor Operation

- **Project:**

Automation System Upgradation.

COROS-LSC System and CEMAT V 1.9 Standards were replaced with COROS LSB Operator Stations and CEMAT V3.0. Project involved adapting



the existing software to the new CEMAT standards. Links with RAMCO Kiln Optimization System, PLC-PLC Coupling with Unit II.

Client:

Siemens Ltd. / Vasavadatta Cement, Sedam

Automation System:

S5 155U PLCs with COROS-LSB OS, SINEC H1, CEMAT V 3.0, CEMCASE

- **Project:**

Automation System Upgradation for Cement Mill Section

COROS-LSC System and CEMAT V 1.0 Standards were replaced with WinCC Operator Stations and CEMAT V3.0. Project involved adapting the existing software to the new CEMAT standards. This was the first implementation of WinCC with S5 PLC for a Cement Application in India. Problems of slow communication speeds with WinCC when using CP 535 were resolved. Implementation of MIS.

Client:

Siemens Ltd. / India Cement Ltd. Sankarnagar

Automation System:

Siemens S5-155U, WinCC SCADA, SINEC-H1

- **Project:**

Commissioning of Automation System of 2 nos. 40 Ton Level Luffing Barge Unloader Cranes

The cranes, supplied by FIGEE, Holland, were erected at site by Water Services Infrastructure (I) Pvt. Ltd. Complete commissioning of the crane automation system was carried out.

**Client:**

Water Services Infrastructure (I) Pvt. Ltd., Mumbai / Gujarat Pipavav Ports Ltd., Mumbai

Automation System:

Siemens S5 135 U PLC, PILZ Operator Panel, Profibus, Interface with Siemens Drives on Profibus, PAT Kruger Load Measurement System

- **Project:**

Automation of Roll Lubrication System for Hot Strip Mill

A joint project by Shell International & Lechler. Controlled Oil Spray was applied during rolling at Hot Strip Mill at Essar Steels to reduce wear & tear, reduce power consumption and to achieve a better surface finish for the product. The Process logic was established in consultation with experts from Shell, UK. Spray system was supplied by Lechler. Complete automation system design and implementation was carried out.

Client:

Lechler India / Essar Steels, Hazira

Automation System:

Siemens S7 CPU 315-2DP with WinCC

- **Project:**

Water Fogging System for ESP Performance Enhancement

Precise control of exhaust gas temperature by controlling the water spray in the ESP inlet duct, to improve the efficiency of Electrostatic Precipitators at NTPC, Badarpur (near Delhi).

PLC system with OP17 Operator Panel was designed, supplied and implemented for Lechler India.

**Client:**

Lechler India / National Thermal Power Corporation, Badarpur

Automation System:

S7 CPU 314 with OP-17

- **Project:**

Water Fogging System for ESP Performance Enhancement

Precise control of exhaust gas temperature by controlling the water spray in the ESP inlet duct, to improve the efficiency of Electrostatic Precipitators at 2x500 MW Thermal Power Project at NTPC, Rihand. Redundant PLC system with SCADA was designed, supplied and implemented for Lechler India.

Client:

Lechler India / National Thermal Power Corporation, Rihand

Automation System:

Redundant S7 CPU 315-2DP, WinCC Scada, Profibus

- **Project:**

Engineering Software Development & Commissioning of Slag Grinding Plant

Client:

Deccan Cement Ltd., Nalgonda Dist.

**Automation System:**

Siemens S7-416-2DP, WinCC SCADA, SINEC H1, Profibus, Fiber Optic Link

- **Project:**

PC based Operator Station for FLS Hydraulic Sub Systems as a replacement for 6 nos. individual Touch Panels

Client:

Prism Cement Ltd. Satna

Automation System:

Siemens S5 95 U PLCs with INFILINK SCADA and KepServerEx OPC Server

- **Project:**

Engineering Software Development & Commissioning of Cement Grinding Section

Mangalam Cement is upgrading their old Cement Mill controlled by Simatic

C1 Relay Logic Panels to a PLC Based System. Closed circuiting of the Mill is also being carried out to improve the production capacity with technical know-how from Krupp Industries India. Future integration will involve control of Raw Mill & Clinkerisation Sections also.

Client:

Mangalam Cement Ltd., Morak, Dist., Kota

Automation System:

S7 – 416-2DP with WinCC SCADA, Client Server Architecture, Sinec H1 & Profibus



- **Project:**

Replacement of TELEPERM M DCS system with PLC

M/s. Century Enka were facing maintenance problems with their existing DCS system and its peripherals. It was hence decided to replace the TELEPERM system with SIMATIC PLC system. The DCS software had to be deciphered and rewritten for the PLC. Being a continuous process, plant shutdowns were not available. Plant was commissioned with PLC system without outages.

Client:

Siemens Ltd./ Century Enka, Chinchwad

Automation System:

Siemens S5 135U, S5 115U PLCs and Intellution SCADA package; links to third party equipment using CP 545

- **Project:**

Complete Instrumentation and Automation of Sewerage Plants at Mahim & Bandra

Prestigious World Bank funded project for managing Sewerage Disposal of the city of Mumbai. Involves automation of pumping stations at Bandra and Mahim. System includes a complete redundant PLC with redundant IOs and Backup Instrumentation panels. Project consultants: Binnie & Partners, UK, Tata Consulting Engineers.

Client:

Crompton Greaves / Bombay Municipal Corporation, W.W.T.F.

Automation System:

GE-FANUC 90-30 Series Redundant Operation, Cimplicity SCADA, Ethernet, Fiber Optic Link to Remote Station, Versamax IOs

- **Project:**



Refurbishment of Instrumentation and Automation of Sewerage Plants at Ghatkopar

Involves refurbishment of Instrumentation & Automation System of Pumping Station at Ghatkopar. Refurbishment of variable speed Static Krammer Drives.

Client:

Bombay Municipal Corporation, W.W.T.F.

Automation System:

AB PLC 5/25 in Redundant Configuration and DOS Based SCADA stations; Bush, UK, SKRD Drives

- **Project:**

Conversion of COROS LS-C Software to Win-CC at Reheating Furnace

M/s JSPL imported a Rail Mill from South Africa. The original COROS LS-C operator stations, which came along with the plant, failed during transit and only

printed documentation of the system was available with the client. The complete software was implemented successfully on Win-CC SCADA from Siemens

Client:

Jindal Steel & Power Ltd., Raigarh

Automation System:

Siemens S5-155U PLC with Win-CC SCADA, Sinec H1

- **Project:**

Conversion of GENESIS Software to Win-CC at Cooling Bank Section

M/s JSPL imported a Rail Mill from South Africa. The Cooling Bank Section comprised of 3 nos. operator stations based on GENESIS scada. Two of the



three operator stations were non-functional when received. Also the configuration package for GENESIS was not available. Complete software was implemented on Win-CC SCADA from Siemens.

Client:

Jindal Steel & Power Ltd., Raigarh

Automation System:

Siemens S5-155U PLC with Win-CC SCADA, Sinec H1

- **Project:**

Operator Station Software for L.F. Phase II

M/s ISPAT are adding one more LF & EAF line to the existing plant. The phase I comprises of COROS-LSB operator stations. For LF phase II the operator station software has been implemented on Siemens WinCC SCADA. Connectivity to the Siemens S5 155U PLCs has been established over Ethernet & FO network.

Client:

Ispat Metallica Ltd., Dolvi

Automation System:

Siemens S5-155U PLC with Win-CC SCADA, Sinec H1

- **Project:**

Data-logging cum MIS Station Software for L.F. & EAF Phase I

Data logging & MIS system based on Siemens WinCC SCADA. Connectivity to 7 nos. Siemens S5 155U PLCs has been established over Ethernet & FO network.

Client:

Ispat Metallica Ltd., Dolvi

**Automation System:**

Siemens S5-155U PLC with Win-CC SCADA, Sinec H1

- **Project:**

Connectivity between RAMCO Kiln Optimization System and Siemens CEMAT V4 Automation System at Pahang Cement, Malaysia

Pahang Cement were installing a RAMCO Kiln Optimization Package in their plant. The Automation system in the plant comprised of Siemens 155U PLCs with CEMAT V4 Operator Station over Sinec H1 station. The connectivity was to be established between the RAMCO OS station and Siemens PLC station, with no stoppage of the plant being permitted for implementation. CEMAT V4 software has not been implemented anywhere in India and this type of connectivity was being established for the first time. Project was executed without any stoppage and to the complete satisfaction of the end user.

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Client: RAMCO Systems, Chennai / Pahang Cement, Malaysia

Automation System:

Siemens S5 155U PLC, Cemat V4 Operator Stations, Sinec H1, OPC Servers

- **Project (Ongoing):**

Automation Software Development for 7200TPD Clinkerisation Line at Gulf Cement, Ras-Al-Khaimah

Client:

Siemens Ltd., Mumbai / Thyssen Krupp

Automation System:

Siemens S7 400 CPU 414-3DP, WinCC V6.0, Sinec H1, OPC Servers, WinEMS, WinMIS



Our in-house developed Software Packages:**Management Information System:**

The MIS package developed by us has been supplied and is in satisfactory operation at the following plants:

- Deccan Cements Ltd. Nalgonda Dist., Andhra Pradesh
- Satna Cement Works, Satna, Madhya Pradesh (Through Siemens)
- Deccan Cements Ltd. Slag Division, Nalgonda Dist., Andhra Pradesh
- Birla Vikas Cement, Satna, Madhya Pradesh (Through Siemens)
- My Home Cement, Dist. Nalgonda, Andhra Pradesh
- Hindalco FTP (2x), Renukoot, Uttar Pradesh
- Mother Dairy, Anand, Gujarat
- Dr. Beck, Pune, Maharashtra
- NMDC Kirandul, Andhra Pradesh
- HEG, Bhopal, Madhya Pradesh
- Maruti Udyog, Gurgaon, Haryana
- Vasavadatta Cement, Sedam, Karnataka (Through Siemens)
- Proctor and Gamble, Goa
- Ispat Metallics, Dolvi, Maharashtra
- India Cements, Sankarnagar, Tamil Nadu
- Sun Flag Iron, Maharashtra
- Siemens, Kharghar – Gulf Cement, Ras-Al-Khaimah

Energy Monitoring System:

Customer List of our EMS Package is as follows:

- Asian Paints, Mumbai
- ONGC, Mumbai
- Deccan Cements, Andhra Pradesh
- Jindal Steel Works, Vasind, Maharashtra
- Prism Cement, Satna, Madhya Pradesh
- Siemens, Kharghar – Gulf Cement, Ras-Al-Khaimah