

LARGE SCALE PROJECTS PLCs and DCS



COMPANY OVERVIEW

Autosys provides end to end plant automation and turnkey project execution in a wide variety of industries and processes. Autosys combines its multi-disciplinary engineering expertise (mechanical, electrical, electronics, PLCs, SCADA, computers and software) with its deep domain knowledge to undertake fixed price contracts for projects costing Rs 100 lacs to Rs 20 crores. Modernization of existing plants and automation of specific processes are also undertaken.

The leadership team at Autosys have been working together for 20+ years, and have a cumulative experience of over 100 years in Industrial Process Control and Automation. The team has executed over 400 projects for industry leaders and global MNCs, exceeding customer expectations every time, on performance, reliability and quality.



UNPARALLELED SUPPORT

Autosys provides unparalleled support to customers during and after project execution. With over two decades of support experience, our managers can recommend the right spares at optimum quantities. Web support for the systems by remote login, ensures faster diagnosis and replacement/repair leading to very low downtime. For large projects, we also provide manpower at site for post commissioning support.

From Infrastructure, Power and Engineering industries to Animal feed, Food and Pharma, the Autosys team has a wealth of experience in executing large scale automation projects using PLC / RTU / DCS systems.

Why Autosys?

- Not a small system integrator, but an end to end automation specialist.
- Deep domain expertise across a wide variety of industries and verticals
- Experience in large scale projects (5000+ IOs)
- Distributed control systems based on RTUs, Ethernet, Modbus, Devicenet
- Various type of hot / dual redundancy architectures customized to each application
- Wireless telemetry
- Instrumentation design, engineering and supply
- LAN, Web and Cloud based SCADA

Solutions approach

In addition to PLC / RTU / DCS we also supply, commission and maintain:

- Material handling and mechanical systems
- Discrete material handling systems
- MCC panels and drive panels, Drawout MCC panels (CPRI approved)
- Intelligent MCC
- Control desks and PLC panels
- Instrumentation supply
- SCADA solutions (Standalone applications, Client – Server architecture)

Experience in various types of communication

Autosys has experience in handling various makes / models of PLC / RTU / DCS involving following different type of communications:

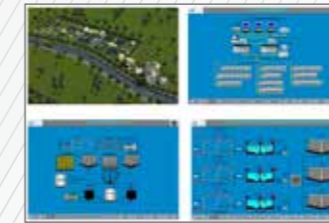
- Ethernet IP/ Device net / Modbus TCP-IP
- RTU communication
- Wireless telemetry, VSAT, GSM, GPRS
- Profibus, Profinet
- Modbus RTU, ASCII, 485/RS232/422
- SMS integration
- Auto-email
- Client-Server and Web-Server configurations

Applications

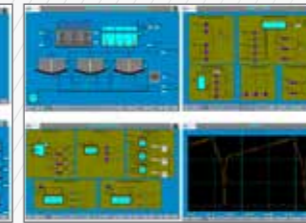
- Weighing and Batching
- Material Handling
- OEM solutions
- Material tracking / traceability
- Instrumentation in Chemical, Oil and Gas
- Heating and furnace control
- Safe area applications, ATEX / CCOE certified systems

VERTICALS COVERED

- Infrastructure, Oil and Gas, Water, Waste Water.
- Power Plants and Balance of Plant automation
- Metals, Ferro Alloys and Engineering industries
- Sintering plants and Gas cleaning plants
- Ceramics and refractories
- Pharma, Food, Animal Feeds



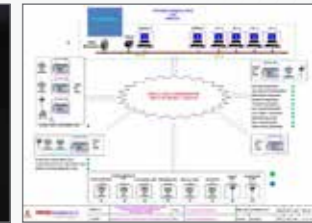
TYPICAL WTP SCADA



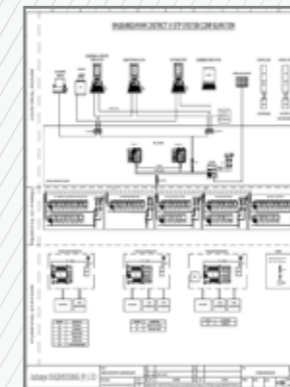
TYPICAL STP SCADA



CHENNAI METRO WATER-MATRIX DISPLAY



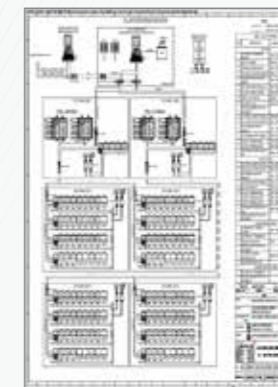
SYSTEM ARCHITECTURE FOR CMWSSB



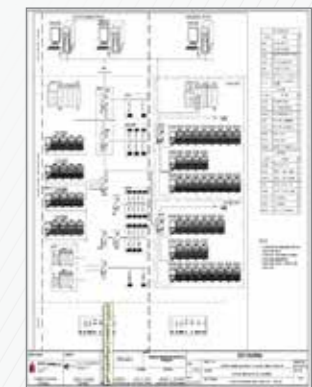
BHUBANESHWAR DISTRICT VI STP SYSTEM CONFIGURATION



BOARD MANUFACTURING COMPLETE PLANT AUTOMATION (5000+ IOs)



INDUCED DRAFT COOLING TOWER CONFIGURATION



MAINILAD RO PLANT CONFIGURATION

Raichur Power 2 X 800 MW : **Induced Draft Cooling Tower and Water Treatment Plant (IDCT and WTP)**
 Hot Redundancy | Special control desks | Instrumentation & Control package | Vibration Monitoring for fans | Dense RTD modules
 First time PLC is used for this application in India.

Mainilad Philippines : **Technology Upgradation and Capacity Addition for RO Plant**
 Replacement of Festo IOs | New capacity addition | 2000+ IOs

Ramco Industries : **Roofing sheet manufacturing plant**
 5000+ IOs | 150+ MCCs - 1.5 to 200 KW | APFC, DG Sync, 5000 Amps Panels
 Centralized monitoring and control of 9 plants across India from HO
 Integration with imported equipment | Fuzzy logic control
 Board thickness monitoring | Slurry – water ratio control
 Field device MMIs embedded with panel views.

Orissa Water Board : **48 MLD Sewage Treatment Plant**
 48 pumping stations | 3 Zonal offices | Telemetry with GPRS
 Complete control and instrumentation package

Chennai Metro Water : **Centralized Monitoring of Reservoirs, Water Treatment Plants, Water Distribution Systems and Sewage Pumping Stations**
 50+ locations | Water quality and level monitoring | Pump controls
 Integration with systems supplied by third parties
 Cloud based telemetry with M2M gateways | Matrix display monitoring at HO

Oil and Gas MNC : **Effluent Treatment Plant for Refinery.**
 1200+ Instruments | Valves, Transmitters, Analyzers | Auto samplers
 CCOE / ATEX compliance | Detailed engineering and documentation