



**INSTRUMENTATION  
CONTROL SYSTEMS  
REMOTE MONITORING  
MOTOR CONTROL CENTRES**



## 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 100 crores. Modernization of existing plants and automation of specific processes are also undertaken. (Rs 10 lacs to Rs 100 Lacs).

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.

## CONTROL AND INSTRUMENTATION OVERVIEW

The C&I business is an independent SBU within Autosys, focusing on projects that have a significant amount of instrumentation and remote monitoring.. The team has extensive experience in Infrastructure, Water and Waste water projects. The project value can range from Rs 100 Lacs to 1000 Lacs.

## EXPERTISE – WATER AND WASTE WATER

- Reservoir monitoring and control
- Lift and piped irrigation
- Water treatment & distribution
- Sewage pumping & treatment plant automation
- Canal automation
- Industrial water pumping & transmission
- Effluent treatment plant automation

## C&I PROJECTS IN OTHER PROCESS INDUSTRIES

- Pesticides
- Explosives
- Refractories
- Pharma
- Ceramics

## TECHNOLOGY EXPERTISE

***Autosys has extensive experience and knowledge in engineering, procurement, integration, installation and commissioning of the following:***

### Instruments

- Flow meters
- Level instruments
- Pressure instruments
- Analysers  
(Example Chlorine)

### Control

- Motorised valves
- Actuators
- VFD drives
- Panels\*

### Telemetry

- GPRS – 2G – 3G
- RF-Radio
- VSAT
- Fibre optics
- Networking of multiple remote PLCs

### IT

- Web/Cloud enabled SCADA
- Servers & Networks
- Large video displays
- Large / Matrix video displays

## PANEL MANUFACTURING

Autosys has an in-house panel manufacturing facility to cater to the following requirements.

- PLC panels
- Motor control centre (MCC) panels
- Cable trays and accessories'
- Control desks
- Drive panels
- Filter bed panels
- Weather proof junction boxes

## CONDITION MONITORING & SEQUENCE OF EVENT MONITORING

- Vibration (Example: Pump thrust bearing, motor axis)
- Temperature (Example: Motor coils)



## CHALLENGING APPLICATIONS

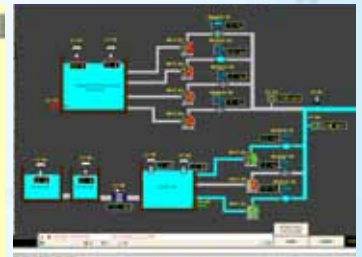
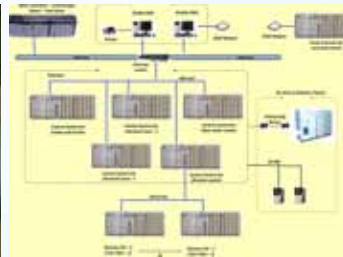
*The Autosys team has executed projects with :*

- Hot dual redundant PLC systems with 1/2 instrument voting philosophy
- Raw water pumping stations with up to 1600 KW pumps
- Instrumentation and Telemetry for piped water transmission up to 120 KM
- Remote monitoring and control of pumping stations

## PARTNERS / VENDORS:

*Autosys has partnership and / or long standing vendor relationships with all the leading brands such as :*

- Rockwell Automation (AB)
- Endress+Hauser, Emerson, Krohne-Marshall, Siemens, Yokogawa, Nivelco
- Kirloskar, IVC, Danfoss, VAAS
- Rittal & equivalent panels
- Siemens, Schneider, Wago, Phoenix, Omron
- Prosoft, Smartbridges, Cisco, Dlink
- Lapp, Helukabel, Belden, Delton
- Hughes/Tata



## TURNKEY EXECUTION

*Autosys undertakes design, engineering, supply, installation, commissioning, warranty and AMC support on a turnkey basis with fixed price contracts and performance guarantees.*

- Preparation of P&I Drawing based on process
- Detailed engineering based on the P&I drawing
- Preparation of IO list/ Drive list and other documents as per list of engineering documents
- Approval of documents from Client/Consultant
- Procurement of equipment/instruments as per approved datasheets
- Design of PLC software logic as per approved control philosophy.
- Design of SCADA software as per control philosophy
- Factory Assembled Test (FAT) as per Manufacturing Quality Plan (MQP)
- Installation of systems as per installation drawings
- Cabling as per approved cable schedule
- Integrated testing with field equipment
- Dry run of the system as per FAT
- Onsite modifications and fine tuning of the software as per site requirements
- Commissioning of the system
- Training and handing over of the system
- Preparation and handing over of "As-Built Drawings"
- Warranty support
- AMC support
- Operation and maintenance of instrumentation and automation systems

## Why Autosys?

- Deep domain knowledge
- Long industry experience
- Wide multi-disciplinary skills
- No compromises on Quality or Processes
- No risk of cost or time escalation
- Passionate and committed team



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