



# INSTRUMENTATION & CONTROL SOLUTIONS



33-A, Sinhasa IT Park, Behind Jagatguru Dattatrey College of Tech.  
Opp. Delhi International School, Dhar Road, Indore (M.P.) 453112

 Automation

 Instrumentation

 Electricals

 Engineering Services

# ABOUT US

ICS was founded in 2011 with a clear vision of excelling in the field of Automation and Instrumentation, offering comprehensive turnkey solutions to our valued clients. With a strong commitment to quality and innovation, we have developed in-house capabilities to meet all the requirements of turnkey projects, including precise design and meticulous selection of instruments. Our focus on providing reliable and efficient solutions has earned us a reputation as a trusted partner in the industry. At ICS, we take pride in our expertise and dedication, ensuring that each project is executed with precision and delivered to exceed our clients' expectations.

Since 2014, ICS proudly holds the status of an recognized system integrator of Rockwell Automation (Allen Bradley), a renowned market leader in PLC / DCS systems. This partnership allows us to offer our clients the finest products available in the market. We are committed to delivering top-notch services and ensuring that our clients achieve the utmost satisfaction with our products and expertise.

## MISSION

Our mission is to become a professionally managed organization with an ambitious goal of achieving annual revenues exceeding INR 100 Crore by March 2027. We will accomplish this by delivering exceptional products and services, cultivating strong customer relationships, and fostering innovation across our operations.

## VISION

At our core, we are dedicated to becoming a prominent firm for Instrumentation & Automation solutions, serving diverse industries.

We are committed to developing solutions that aim to be the market's best and establish a global presence in the automation industry.

## OUR STRENGTH

- Comprehensive Turnkey Automation Solutions.
- NABL Accredited LAB for Calibration.
- We take pride in our extensive experience, with a proven track record of delivering over 200+ successful automation projects across diverse systems and regions nationwide.
- 13+ Years of distinguished automation proficiency.
- We have specialized services like, Validations, ES-IT, Calibration.
- PAN India Presence.

## CUSTOMER FOCUS

We exceed customer's expectation at all times by consistently delivering quality service in a timely and efficient manner.

## QUALITY

We believe in providing our clients with the best of quality products and services.



# AUTOMATION

Industrial Automation, combined with Process Instrumentation, revolutionizes modern industries, elevating product quality, reliability, and efficiency while accelerating production. Automated systems ensure a consistent quality, safer environment and real-time data-driven decisions.

ICS has been a leader in providing DCS and PLC/SCADA based process solutions for over 13+ years. Our expertise spans the entire automation spectrum, from concept to commissioning and validation. ICS excels in designing robust systems, procuring Splendid quality hardware / software, and developing tailored logic to meet clients' needs.

We ensure comprehensive project handling, including field installations, cable laying, terminations, and final training. ICS's systems comply with 21 CFR Part 11 regulations and meet ISA, GAMP 5, and IEC Standards.

Post-project delivery, ICS offers prompt and top of the line after-sales support, including AMC options, embedded engineers, technicians, and on-demand assistance through their PAN India network, guaranteeing maximum up time for valuable assets.

## AUTOMATION PROJECTS AT A GLANCE

- DCS System – Turnkey Plant Automation
- Machine Upgradation
- Line Integration
- PLC/ DDC based BMS/ EMS System
- SKID Automation
- VFD & Servo based Systems
- PLC, HMI & SCADA Development
- BMR / IOT based solutions
- Continuous and Batch Process Automation
- BMS and EMS Systems
- Engineering & consultation Services

## AUTOMATION SERVICES

- AMC Services
- Embedded Engineer
- Network Design and Validation Services
- O & M Services
- Trouble shooting / Break down Services.
- Remote support facility available anytime and anywhere to reduce travel time.

## ADVANCED APPLICATIONS

- OEE and Golden Batch Estimation
- Interactive Dashboards
- E-log Book and E status Board
- Intelligent Motor Control centre (IMCC)



# INSTRUMENTATION

Instrumentation forms the backbone of any Automation System in an Industrial Manufacturing Plant. It plays a crucial role in monitoring real-time values and simultaneously exerting control over various processes. At ICS, we pride ourselves on being a comprehensive Turnkey Solution provider, offering our clients a wide array of services related to projects, with a specific focus on Instrumentation.

Our expertise in Instrumentation encompasses several key aspects, including the meticulous design and selection of instruments, precise installation of instruments and consumables, as well as the crucial calibration of instruments on-site or in the laboratory. We take great care in ensuring the final commissioning with the control system is seamlessly integrated for optimal performance.

At ICS, we provide a complete Turnkey Solution, catering to the unique demands of each project. With an experienced and skilled team dedicated for services and installation, we prioritize safety and adhere to the highest industry standards, supported by a specialized safety team.

Our commitment to excellence and comprehensive expertise in the field of Instrumentation make us the ideal partner for your Industrial Manufacturing Plant Project. Trust ICS to deliver reliable, efficient, and cutting-edge solutions for your automation/ Instrumentation needs.



## PRODUCTS

- Temperature Measuring Instruments
- Level Measuring Instruments
- RTD's, PH, Conductivity, Proximity Sensors
- Indicators
- Switches
- Cables and Cable Trays
- Pneumatic Tubing & Fitting, MS Structure
- Flow Measuring Instruments
- Pressure Measuring Instruments
- On Off Valve, Control Valve
- Gauges
- Safety Instruments
- Air Header, Junction Box



## CALIBRATION

Calibration is an indispensable process that ensures the accuracy and reliability of measurement systems, making it an essential practice for organizations committed to delivering high-quality products. By undergoing calibration, test equipment is fine-tuned and aligned to recognized standards, enabling precise and reliable measurements.

ICS takes pride in its NABL Accredited Laboratory, which ensures the delivery of Finest-quality and reliable services. ICS has been providing both on-site and off-site services to its valued clients.



## INSTRUMENTATION SERVICES

- Instrumentation Design Services
- Instrument Specification Sheets
- Instrument Layouts
- Hook Up Drawings / Control Loop Diagrams
- AMC
- Instrument Calibration Services
- Instrument Index
- Cable / Cable Tray Layouts
- Schedules (Cable / JB / AH)
- Cause Effect Diagrams
- O&M
- Instrument Erection / Installation Service



## ICS SERVICES IN CALIBRATION

- Software based Calibration System.
- On Site / Off Site Calibration Services.
- Experienced Technical Team of Engineers.
- PAN India Services.
- Highly Accurate / Reliable Masters Instruments.



Automation



Instrumentation



Electricals



Engineering Services

# ELECTRICAL

ICS is proactively expanding its product portfolio to encompass a comprehensive range of electrical solutions and services.

"We specialize in turnkey electrical projects, offering seamless execution for a wide range of LT power solutions. Our comprehensive services include design, detailed engineering, supply, installation, testing, and commissioning (SITC) for diverse industrial sectors, including pharmaceuticals, power plants, engineering industries, food & beverage, cement, chemicals, textiles, automobiles, and more."

## ELECTRICAL PROJECTS

- Supply, Installation, Testing & Commissioning (SITC) of

Power Control Centre (PCC Panel)

Motor Control Centre (MCE Panel)

Variable Frequency Drive (VFD Panel)

Auto Power Factor Correction (APFC Panel)

Plant Earthing & LA System

Plant & Street Lightings

- Cable Management / Point Wiring System
- Energy Management System

## ELECTRICAL SERVICES

- Expertly Design LT Power Distribution Systems, (emphasizing LT business).
- We provide O&M (Operations and Maintenance) Contracts for all utilities within the plant, ensuring smooth and efficient operations.
- Providing electrical engineers & Technicians.
- Precise preparation of electrical panel GA / drawings, data sheets, specifications, BOQ, BOM, and Tender Charts etc.
- Installation works for all electrical consumables/ products like cables/ cable Trays panels etc.

## ELECTRICAL SYSTEM DESIGN

- Power System Design :- Study & Design of Plant Distribution System based on Connected load, Average Demand, Max. Demand, Load Calculation etc.
- Selection & Design of Plant Lighting System and Solar Power System.
- Design of LT sub stations, switch yard.
- Preparation of various engineering documents like Electrical / Control Panel GA & Drawings, connected load details, Electrical engineering specifications, Data sheets, BOQ, BOM, Tender document, Project flow charts, Equipment sizing calculations.



# SERVICES

## VALIDATION

"Computerised Systems Validation (CSV) is the systematic process of testing, validating, and qualifying a regulated computerized system, such as those regulated by US FDA 21 CFR Part 11. The aim is to ensure that the system performs precisely as intended, consistently and reproducibly, while maintaining the same level of safety, security, and reliability."

At ICS, validation services constitute a significant part of our comprehensive offering. With a vast team of experienced engineers, we take pride in delivering top-quality validation services, adhering strictly to the Guidelines of Good Automated Manufacturing Practices (GAMP 5).

### ICS VALIDATION EXPERTISE

- Computerised System Validation as per GAMP-5.
- HMI / IPC / SCADA and PLC Validation
- Data Acquisition Software (DAS) Validation for different Process / Equipment's
- Comprehensive GAP & Quality Risk Assessments
- Audit Support and Subject Matter Experts.
- System audits by approved agency
- IT (Server, Net Backup tool and other applications) validation
- Laboratory Software Validation (Tiamo, FTIR, LIMS, Empower, Chromeleon etc.)
- Building Management System (BMS) & Environment Management Systems (EMS) Validation
- SAP, ERP, Web based Software Validation
- GMP Training to employees from certified trainers.

## ES-IT

The role of the Manufacturing IT Services Engineer encompasses providing extensive IT support for process control systems, encompassing HMI / SCADA, PLC, or DCS-based systems in manufacturing and packing areas. Additionally, the engineer is responsible for managing compliances related to these systems.

Manufacturing IT Services entail the strategic application of Information Technology to optimize manufacturing processes and enhance overall efficiency. These skilled engineers play a vital role in ensuring seamless IT integration and technical excellence, empowering businesses to maintain a competitive edge in the ever-evolving manufacturing industry.

## ENTRUSTED WITH

- User Management (Creation, Modification, Deactivation).
- Date & Time Management.
- OS Policy Management.
- SOPs creation and Deviation / Investigation / CAPA Management.
- Support to Client in internal and external Audits.
- Support to Manufacturing Admin (PLC-HMI, SCADA And DCS System).
- Network and Break Down Support.
- Data Administration (Data Backup and restoration).
- Periodically Activity and Project Support.
- Inventory Management.
- Documentation and Compliance.
- Database Support (SQL / MYSQL / MS Access) Manufacturing Machines.
- Server Administration.

				
				
				
				
				
				
				

## LOCATION / EMAIL

### Head Office

33-A, Sinhasa IT Park, Behind Jagatguru Dattatrey College of Tech. Opp. Delhi International School, Dhar Road, Indore (M.P.) 453112

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### Central Sales Office - Pune

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### Hyderabad Office

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### Mumbai Office

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