

# COMPANY PROFILE



**YANTECH**  
CONTROLS & AUTOMATION

## **YANTECH Controls and Automation**

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# I. OVERVIEW

YANTECH Controls an Automation is a leading Control system integrator offering technical solutions and services, covering a wide range of industries and applications including the following services:

- 1. Automation Solutions:** YANTECH offers turnkey integrated industrial automation solutions based on state-of-the art PLC and SCADA technologies for a wide range of industrial automation applications including manufacturing, utilities, Oil & Gas, and service industries.
- 2. Industrial automation with IOT:** We provide IOT solution for Factory automation, The Internet of Things (IOT) plays an important role in the industrial automation as it is beginning to explore and apply IOT concepts and technology. IOT helps to make system well organized and system architectures that are essential, reasonable and flexible.
- 3. Electrical and Control panels:** Design and assembly of control panels, distribution boards, Low Voltage Motor Control Centres (MCC) for independent service.
- 4. Installation and Commissioning:** Installation and commissioning (Field wiring, IO testing, execution) of control panels.
- 5. 3<sup>rd</sup> party commissioning management services:** Provides commissioning management services helping the industrial facility contractor or owner in successful and proper testing and commissioning.

Our automation solutions are based on standard and open products avoiding any proprietary solutions in order to simplify the integration with other existing systems and future expansions on the plant floor and with enterprise level applications and systems including reporting and planning tools

Our ability to build the electrical and control panels complements our Automation solutions services and reassures the quality of our product while giving our product a high level of flexibility.

Being a commissioning service provider is reflected on the way we implement our projects by giving the right attention and time to the details during design stage and to properly engineer our solutions in a way that guarantees a smooth system commissioning and start up.

## II. MISSION VISION & OBJECTIVES

### **Mission**

**YANTECG Controls and Automation** is devoted to deliver Controls Systems and well-engineered Industrial automation solutions that enable our customers to achieve their production targets efficiently and effectively and aspire to attain ultimate customer satisfaction.

### **Vision**

At **YANTECH Controls and Automation** we believe that the control system of any production facility is the key for a successful and profitable production, our Industrial Automation Solutions and Electrical Systems are designed and implemented in accordance with this belief and maintained by our commitment to support our customers throughout the project life cycle.

### **Objectives**

To place **YANTECH Controls and Automation** to be the preferred Industrial Automation Solutions Provider with our existing and potential customers and markets by delivering optimal solutions and maintain pre-sale and after-sale customer support and customer satisfaction as per the standards and requirements.

### III. SERVICES

#### 1) INDUSTRIAL AUTOMATION SOLUTIONS

We offers turnkey integrated Industrial Automation Solutions starting from the plant floor (PLC/HMI, SCADA) and continuing up to the Manufacturing Information Systems (MIS). This helps us enable our clients in optimizing their process in return achieving the highest level of efficiency by maximizing system availability and minimizing system downtime, at the same time maintaining upper level supervision and real-time monitoring offering the followings:

##### a) TURNKEY PLC/SCADA SOLUTIONS

We take full responsibility for the engineering, procurement of control hardware and instruments, control panel's fabrication, PLC/SCADA software development, field installation, commissioning, and start-up of industrial control systems. Our project execution goes through the following steps:

- Control System Detailed Design, including:
  - i. System Architecture Drawings
  - ii. IO Point List
  - iii. Instruments List
  - iv. Functional Design Specifications (FDS)
  - v. Control Panel Drawings
  - vi. Instruments Selections
  - vii. I/O Wiring Drawings
  - viii. HMI Screens Design
  - ix. Data Acquisition Requirements
  - x. Reporting Requirements
- Procurement of Control Hardware and Instruments
- Control Panels Assembly
- Software Development

- Factory Acceptance Test (FAT)
- Field Installation
- Commissioning and Start-up
- Sit Acceptance Test (SAT)
- Training
- O&M Manuals

## **b) FIELD SERVICES**

- Installation of Field Instruments
- Installation of Field Cabling and Containments
- Instrument Field Calibration Services
- Maintenance Contracts
- Control system upgrade Services

## **c) CUSTOM INDUSTRIAL SOFTWARE DEVELOPMENT**

We offer the development of custom industrial software solutions that interface with new systems, existing systems and processes. These solutions are made to fit the customer's maintenance and planning or any other needs and requirements. Moreover, we have developed a plug-and-play troubleshooting and maintenance suite that has proven to be handy in various applications; our software developers have the ability to develop custom software for our customers' specific requirements.

## **d) PLATFORMS**

We offer our clients the control platform of their choice; we work closely with the clients in order to guide them in making the most suited selection for their specific needs. We offer solutions based on the following technologies:

- Rockwell Automation (AB)
- Siemens

- Mitsubishi
- Omron
- Delta
- Schneider

### **e) INDUSTRIES**

We offer solutions for Discrete, Batch, and Continuous processes. The expertise of our Engineers covers a wide range of industries and applications including:

- SPM's
- Automotive
- Water & Waste Water Treatment
- Boiler Management and Combustion
- Steel & Aluminium
- Power & Utilities
- Food Processing
- Pharmaceuticals

## **2) RELIABILITY AND CONDITION MONITORING SOLUTIONS**

We provide CMS solutions for new and existing machineries on a turnkey basis from initial conceptual project design, production of functional design specifications, project management, field devices selection (sensors), hardware and software design, panel manufacturing, site installation, commissioning, client training, and technical support. In summary we have a focused, flexible team providing quality, reliable, cost effective, and easy to maintain solutions utilizing latest proven technologies for new plants and upgrades alike.

We offer turnkey intelligent integrated condition monitoring solutions (CMS) for all types of machineries including Steam Turbines, Generators, Gas Turbines, Compressors, Pumps, Fans, Blowers, Gear boxes, and Conveyors utilized at a wide range of industry sectors including Power Generation, Pharmaceutical, Renewable Energy, Water and Waste Water Treatment & Distribution.

### **3) ELECTRICAL & CONTROL PANEL ASSEMBLY**

We have the in-house capability to design and build all types of control panels as well as electrical panels and facilitating the integration of the electrical system with the overall SCADA system. We also offer this service to outside clients as well supplying panels as per their design.

### **4) 3<sup>RD</sup> PARTY COMMISSIONING MANAGEMENT SERVICES**

We provides 3<sup>rd</sup> party commissioning management services for Industrial Facilities. Our commissioning services include the followings:

- Prepare the Commissioning and Start-up manuals
- Develop the commissioning program
- Coordinate with the vendors and suppliers of the equipment
- Manage the commissioning activities
- Verify the proper commissioning of the facility equipment
- Prepare the O&M Manuals
- Administer the operation training
- Administer the facility integrated performance testing

## IV. OUR APPROACH

Our projects are planned and executed following an intense project management methodology. Our project management methodology is closely aligned with Project Management Institute (PMI) procedures. This results in effective scope management, resource utilization, quality, budgeting and scheduling of resources and projects alike.

We follow the following six phase approach to execute our projects:

**Analysis:** during this phase we understand the requirements of the user and the scope the project, plan for the project resources and prepare the budget and schedule. These elements form the basis of the project, and the source against which progress will be measured.

**Design:** the phase where engagement policies are finalized and counter-signed by both the parties. The project lead works intensively with the client to understand the requirements of the project. They also agree on a desired solution and the architecture or process to be followed for development.

**Implementation:** the phase when the actual project is carried out including the procurement of controls hardware and instrumentation, control panel fabrication, and software development. During this phase, the project plan is revisited in order to ensure that timelines are met and are within the budget of the project. This also helps to escalate any issues to the concerned parties.

**Factory Testing:** before the final product is delivered to the client, it is tested by the Project team in order to ensure that all the requirements and standards are met.

**Field Installation:** if required by the customer, we carry on all field installation of our control panels, instrumentation, and electrical panels including the controls and network field cabling and containment system.

**Commissioning & Field testing:** is the actual deployment of the product at the client site. This phase is carried out in accordance with the testing and commissioning protocol developed by the project team.

## V. OUR COMPETENCIES

### ● **Process knowledge:**

- Being a commissioning service provider gives us the ability to have the upper hand in the process knowledge and using that knowledge in the design and implantation of our automation solutions.
- We are not just a System Integrators; we know and work to learn your process requirements in and out and we customize our solutions based on that knowledge.

### ● **Industrial domain knowledge:**

- Familiar with automation and information systems applications used at plant floor and at the enterprise levels.

### ● **Software Engineering:**

- We utilize modular software design approach that deal with each piece of equipment as a Module. That software module is engineered, tested, implemented in accordance with the engineering standards.
- We document our software to the smallest details which makes it easy for our clients to understand our software, makes dealing with software glitches easier and more predictable.
- We do not just Cut-n-Past software form project to project; we actually engineer solution utilizing fully-proved software modules.

### ● **Expertise in key technologies used by various industries:**

- Web based solutions
- Rockwell Automation, Siemens, Omron, Delta, Schneider and other automation vendors
- OPC (OLE for Process Control) data exchange protocol
- Databases

### ● **Reduced cost through variety of working models including standardized-modular technology that can be modified and reproduced.**

### ● **Focus on building long term relationships by achieving the highest levels of customer satisfaction**

## **VI. DESIGN CAPABILITIES**

We believe and understand that design is the base of any project and our experienced engineers and our utilization of state of art designing tools complement our belief.

Our Design Engineers are well trained and experienced. Our design team undertakes the responsibility of detailed design starting from P&ID, instrument hook up drawings, Panel layout drawings, preparation of Functional Design Specifications, General Arrangement Drawings, Test Procedures, as- Built Drawings and Documents and Operation and Maintenance Manual.

Our engineers are trained in programming of major PLC manufactures like Siemens and Rockwell. Our engineers are well aware of industrial standards and we develop graphics and SCADA for almost all major domains.

We customize the HMI as per the project / customer requirement, our Engineers design the HMI graphics in accordance with our customers ease and we take care to cater all the interfaces required for communication with Management Information System / Maintenance Management software or connectivity to our client IT Infrastructure. Our ability, knowledge and experience are our backbone to design a system fulfilling present requirement and future expansion of the plant.

## **VII. WORKSHOP FACILITY**

Under the supervision of our experienced Engineers we provide a state of art facility for Panel assembly and FAT. Our trained and experienced technicians and electricians make sure the readiness of panel for pre FAT testing well before the proposed FAT date. We provide full integrated testing facility to our customers to conduct 100% Factory acceptance test. We have stringent quality control process to ensure that all incoming and outgoing products are tested to the project needs.

Our regular and timely check-ups of stock helps us keeping enough stock of standard accessories, however major components like PLC, Gateways, Routers, Servers and instruments are procured and on time delivery is ensured by our procurement team avoid any kind of delay during Panel assembly which in turn helps us conducting FAT on time and deliver the panels to our clients on agreed dates.

We believe in punctuality and work hard to meet the timeline for the final delivery of panels and for which we have been receiving appreciation from our Clients.

## VIII. TECHNOLOGY PARTNERS

Our Solutions are based on reputed and proven technologies from the leaders of the industry; our approach is to utilize these technologies to the maximum and benefit from every aspect of it and reflect that on the performance of the facility that our solutions are running.

Automation Partners:

The logo for Siemens, featuring the word "SIEMENS" in a bold, teal, sans-serif font.The logo for Rockwell Automation, with "Rockwell" in red and "Automation" in grey, both in a bold, sans-serif font.The logo for Omron, featuring the word "OMRON" in a bold, blue, sans-serif font.The logo for Mitsubishi Electric, consisting of a red three-pointed star symbol followed by the words "MITSUBISHI ELECTRIC" in a bold, black, sans-serif font.The logo for Fuji Electric, featuring a stylized blue "FE" symbol followed by the words "Fuji Electric" in a black, sans-serif font.The logo for Delta, featuring a blue stylized "D" symbol followed by the word "DELTA" in a bold, blue, sans-serif font.The logo for Schneider Electric, with "Schneider" in green and "Electric" in a smaller green font below it, accompanied by a green stylized "E" symbol.

## IX. CUSTOMERS

**Rexroth**  
Bosch Group

**Nidec**  
All for dreams

**Parsons  
Nutritionals  
Private Ltd**



**SKYLON  
Technologies**



**ARYA  
Engineering  
Industries**