

# Integrated Solutions...

*Your Partner for Electrical, Control and Instrumentation*

*Tomorrow is not just a continuation of today. At Larsen & Toubro, we see tomorrow as a whole new world of possibilities. So we are developing the capabilities that will help shape those possibilities into a reality that better fulfils the needs of our Customers.*

*In the sphere of Control and Automation, we apply the expertise acquired across decades and across multiple industry sectors to give new shape and meaning to tomorrow...*

## About us

Control & Automation (C&A) is a Strategic Business Unit of L&T Electrical & Automation. It is part of Larsen & Toubro – the multibillion India-based conglomerate, engaged in technology, engineering, construction and manufacturing, and financial services and has a track-record of projects that set industry benchmarks in scale and sophistication. Our solutions are the outcome of well established innovation practices that are focused on meeting the needs of a variety of Customers.

An industry major in the Electrical and Automation space, C&A has an expansive product portfolio, with a reputation for quality, an innovative outlook and strong customer orientation.

C&A is a market leader in delivering Integrated Electrical

& Automation solutions in India and overseas. With over three decades of experience in diverse segments, C&A delivers value through comprehensive solutions that are based on varied technology platforms and incorporate the benefits of its wide ranging experience.

*The future belongs to those who can 'learn, unlearn and re-learn'. At L&T our track record is 'live' – continuously updated and upgraded with new learnings and developments...*

C&A Integrated Solutions deliver value through systems design, application engineering, application software, documentation, commissioning and life cycle services to ensure consistently high performance.

EPC Contractors / OEMs, Consultants and End

Customers are served through a strong team of engineers who architect solutions backed by robust engineering and intelligent software development, supported by domain experts.

*The past may have had answers. The future will have solutions...*

Industries are looking for solution providers who address their needs with a near 360° perspective. L&T is widely acknowledged for its ability to provide precisely these kind of solutions.

Extended to the Electrical & Automation space, the concept means that customers get completely engineered solutions on multiple platforms. With



## Verticals & Applications...

### Minerals & Metals

Cement, Mining, Ferrous & Non-Ferrous



- Cement Plant E&I
- Iron & Steel making E&I
- E&I for Bulk Material Handling
- E&I for Ports

### Oil & Gas

Upstream, Midstream and Downstream



- Integrated Process Control
- Pipeline SCADA
- Emergency Shut-down and Fire & Gas
- Terminal Automation & Tank Farm

### Power

Generation, Transmission and Distribution



- Integrated controls for Boilers and Turbines
- Station C&I
- E, C&I for CHP, AHP, WTP
- E&I for Solar Plants
- Smart Grid

### Infrastructure

Highways, Ports and Metro Railways



- Highway Traffic Management
- Metro Rail BMS & AFC
- Airport Baggage Handling
- Power Management
- Smart City & ITS

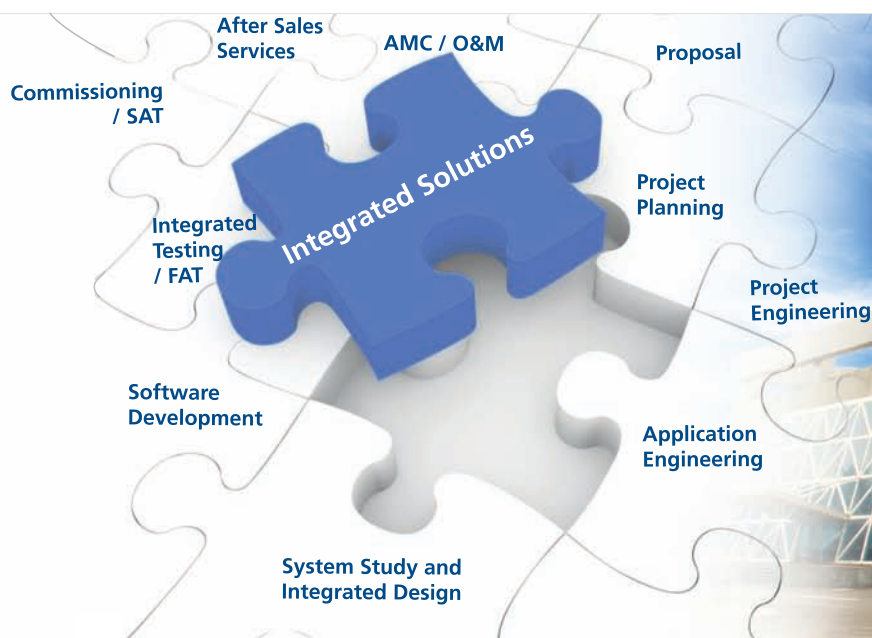
### Buildings

Hotels, Hospitals, Factories, Malls, Data Centres



- Substation
- MV / LV Power Distribution system
- ELV / CCTV / Fire Detection & Alarm Systems (FDAS) with suppression solution
- Access Control
- Lighting Control

**Electrical, Drives, Automation, SCADA, Instrumentation, Telecommunication, IT**



proven capabilities across value chain from Proposal, Project Planning, Project Engineering, Application Engineering, System Study and Integration Design, Software Development, Integrated Testing / FAT, Commissioning / SAT to After Sales Services, C&A assumes **single point responsibility** to deliver completely engineered solutions at agreed time and cost.

Also implicit in the Integrated Solution concept of delivery is a professional approach to risk management. Drawing from C&A's experience in the field, all risks are identified, appraised and effectively addressed. End customers are insulated from risk and can be assured of on-time project delivery, at minimum cost of ownership to all stakeholders.

*Expertise must translate into a future of demonstrable and measurable change. C&A's expertise extends across the spectrum – from engineering software to post commissioning assistance...*

## Services

C&A has a legacy of over 30 years in the Control & Automation Industry, and has a team of experienced domain experts with vast exposure in domestic and international market. C&A provides comprehensive services, from Installation & Commissioning to complete Life Cycle Support through Repairs, Spares, Preventive & Break down Maintenance, Training.

This ensures every Plant operates at highest efficiency and with maximum productivity. All our processes are laid on the strong foundations of internationally accepted quality standards.

C&A services team ensures that every equipment is tested first on 'no-load' condition as a part of safe working practice to ensure equipment & personnel safety followed by the 'full-load' trials &

Commissioning. For Systems Solution the team ensures a Integrated Site Acceptance test (SAT) demonstrating the performance of the systems to the satisfaction of the Customer.

C&A ensures a culture of Safety is followed in all its operations and has a dedicated team of safety officers deployed at all sites to ensure safe practices followed in all its activities.

### *Single window "Integrated Solutions" provider... Your benefit from our strengths -*

- *Choosing best hardware and software*
- *Keeping abreast with latest industry standards in technology and safety (Process, Equipment, Human and Environment)*
- *Using domain knowledge acquired by working across industries*
- *Ensuring seamless integration resulting in improved quality and reliability*
- *Possessing pool of qualified and skilled resources for Engineering, project management and site execution*
- *Accomplishing timely project completion*
- *Saving your cost by reducing involvement of your engineers*
- *Providing expert technical support*
- *Ensuring smooth handover with comprehensive documentation.*

## Engineering Software Services

C&A also offers Engineering & Software Services (ESS) to Domestic & International clients. the ESS solution portfolio includes software and driver development, Cyber Security Assessment for Application & Automation, Engineering Services for PLC, SCADA & MES encompassing functional design specification, FAT, SAT, remote plant monitoring, support and Training.

This enables C&A to offer seamless connectivity between process-floor and business IT systems to global customers.



## L&T Electrical & Automation

Optimizing Energy,  
Powering Sustainability

### Control & Automation

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