



## **L&T Press Release**

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### **L&T showcases its integrated solutions capability in electrical & automation space at ELECRAMA 2010**

**Mumbai, January 22, 2010:** Larsen & Toubro Limited (L&T) showcased its wide array of electrical products, systems and solutions at ELECRAMA 2010 in Mumbai. L&T's theme of "integrated solutions" was exemplified with a display of some of the latest and robust electrical & automation products, live demonstration of solutions and panels highlighting application in different business verticals.

The display in the total area of 644 sq. meters is the largest space occupancy by a single exhibitor – comprised a mixture of new concepts in low voltage, medium voltage switchboards, air circuit breakers with higher ratings, automation expertise in industrial domain, new range of panel meters and meter data acquisition solutions as well as products and comfort solutions for commercial and residential buildings.

Speaking about L&T's participation in the event, President - Operations & Member of the Board, Mr. R. N. Mukhija, said, "Elecrama is the largest platform on which electrical and electronics manufacturers detail their capabilities and update the country on new products and solutions. L&T has been a major player in transmission and distribution segments for many decades in India and our participation at this event is an expression of commitment to the growth of the power sector."

Making a specific mention of the display, Senior Vice President & Head of Electrical & Automation, Mr. S. C. Bhargava said, "Our strength not only lies in manufacturing high quality products and systems but integrating them to offer complete solutions in electrical and automation to a variety of industries, utilities and building segments. It is like a one-stop shop for all the needs that would make life a lot easier and convenient for our customers and business partners."

The switchgear basket contains U Power Omega Series Air Circuit Breakers (ACBs) in the range of 400 A - 6300 A, high withstand capacity up to 100 kA and are equipped with Matrix protection and control units offering complete modularity. Another product is the D Sine Moulded Case Circuit Breakers (MCCBs) with Matrix protection units in the Rating of 40 A - 1600 A in 3P/ 4P versions with advanced protections, metering functions, fault and diagnostic records as well as communication capability.

Also on the shelf are Changeover Switches with Rating of 63A-1000A in five frames, fused changeovers up to 800 A, staggered terminals for easy access and dual shaft position for flexibility in installation. The list of new products extends to the highly compact range of MO Contactors with Rating of 9A-110A and RTO Thermal Overload Relay with Rating of 0.2A-45A and features of Visual Status Indication and Auto Manual Reset Function. Apart from these, there are complete building and home automation systems and AC motors.

The switchboards display includes new concepts in low voltage distribution through T-ERA. These new concepts can offer savings to customers in terms of safety, low maintenance time and lesser damage to environment. Also being showcased is MCOMP which would offer remote control of substation at an affordable cost.

Further, L&T has displayed the power monitoring, management and control of the electrical substation through its solution called L&T Vision. The solution to complex electrical schematics, by using the IEC61850 protocol, will lead to much simplification in electrical substation and lesser downtime due to faults.

L&T's automation expertise in the industrial domain focuses on key industry verticals like Oil & Gas, Cement, Metal, Utilities like Power & Water and Infrastructure. The integrated electrical & automation solutions are based on core platforms like SCADA, DCS, PLCs and control products like Drives Servos and Soft Starters.

There is a display of its Advance Traffic Management System (ATMS) along with traffic toll management system with newly developed software. In the Oil & Gas segment, L&T has showcased its automation expertise in all the Upstream and Downstream segment with special focus on comprehensive Terminal Automation solutions.

A major focus area at the stall is the display for the Power sector where L&T has put up specialized solutions in the Generation sector along with Smart Grid-DMS solutions for Transmission and Distribution.

The highlight of the L&T stall is the Electrical and Automation integration area where networking of various electrical control systems like PCCs, MCCs, LV-MV Switchgear, and networking panel interconnected with servers and terminal PCs to form a control room will be present. The PCs host various applications like Power Management Systems, PI systems, etc. and fetch data from various field devices they are connected to. These systems demonstrate energy management capabilities in real time.

L&T has launched its new range of panel meters – Vega – that includes single function meters, VAF meters and multi-function meters. The range includes Single Phase meters as well as Three Phase meters in 96x96 and 48x96 sizes. Also showcased is the Meter Data Acquisition Solution (MDAS) in line with the R-APDRP scheme which is a plug & play configurable solution. This gives the utility the flexibility to choose between a centralized or distributed data acquisition system. Also on display are L&T's Meters complying with DLMS / Cosem protocol for data transfer as well as the Indian Companion Standard for IEC 62056.

Through its construction division, L&T has showcased comprehensive construction services for industrial project electrification and instrumentation, building electrification, telecommunication projects, EHV switchyards and transmission lines, APDRP, SCADA and railway electrification.

### **L&T's Capability Spectrum**

Larsen & Toubro is a USD 8.5 billion technology, engineering and construction group, with global operations. It is one of the largest and most respected companies in India's private sector.

L&T undertakes turnkey construction of fertilizer, refinery and petrochemical plants; cross-country pipelines and oil & gas terminals covering civil, structural, piping equipment, heavy lifts, electrical and instrumentation work.

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