Proven precast solutions for every application
Larsen & Toubro is a major Indian multinational in technology, engineering, construction, manufacturing and financial services, with global operations. Its products and systems are marketed in over 30 countries worldwide. A strong, customer-focused approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business for over seventy five years.

L&T Construction, India’s largest construction organization and ranked among the world’s top 30 contractors, has been over the past seven decades transforming cityscapes and landscapes with structures of immense size and grandeur. The company’s capabilities span the entire gamut of construction - civil, mechanical, electrical and instrumentation engineering - and its services extend to all core sector industries and infrastructure projects.

Several of the country’s prized landmarks - edifices, structures, airports, industrial projects, flyovers, viaducts, water and power infrastructure projects - carry L&T’s signature of excellence in construction. Today, more and more structures beyond India’s boundaries are standing tall, thanks to L&T Construction that straddles six related businesses:

- Buildings & Factories
- Transportation Infrastructure
- Heavy Civil Infrastructure
- Power Transmission & Distribution
- Water & Effluent Treatment
- Renewable Energy
Breaking the mould for INNOVATION

Precast, prestressed concrete is the optimum solution for an array of applications. And no company has more experience in building structures using these techniques than L&T. After all, we were the first to introduce these technologies in India, and continue to be leaders in the field.

Precast technology can be used to build large span storage and factory structures, long span marine and bridge structures, elements for underground metro tunnels and above ground girders, large span buildings, a large number of high-rise residential structures and office complexes.

For each of these applications, precast offers multiple benefits, superior quality, speedier construction and greater economy. L&T’s precast concrete centres and fabrication yards across major cities and project sites enable the Company to provide cost effective solutions and meet demanding schedules.
L&T has been using precast technology for the construction of large panel and modular systems including precast elements such as walls, slabs, beams, columns, staircases and landing surfaces with complete understanding of stability, durability and structural integrity of the building.

A team of design and structural engineers develop tailor-made structural designs, plan and work on value engineering for residential and commercial buildings.

L&T has been offering single-point solution for all kinds of precast techniques, strictly adhering to the standards and the nature of the building.

- Full spectrum of construction services, right from concept to completion including layout, planning, architecture, structural design, MEP design with complete co-ordination for execution
- Feasibility study, estimation with accurate bill of quantities, cost estimates and comparative cost statements against conventional systems
- Precast connection design and detailing including seismic critical connections for structural stability
- Detailed design for stripping, transportation, handling and final stage loading
- Preparation of shop drawings for production and erection of precast elements
- Strategic and meticulous planning for yard setups and project management
- Construction methodology for streamlining construction activities across all phases (planning, design and construction/erection) with precast structural concepts and architectural coordination
- Quality control assurance with periodic inspections
Advantage PRECAST

L&T’s Precast Concrete Centres and fabrication yards across major cities and project sites has enabled the team to provide cost effective solutions for affordable construction and meet the demanding and challenging schedules.

Precast technology offers several advantages over in-situ reinforced concrete structures and steel structures.

- Higher productivity through mechanisation and mass production techniques
- Faster project completion
- More economical
- Minimal disruption at project site
- Superior quality as production is under controlled conditions
- Eliminates plastering, rendering and cosmetic treatments
- Precast elements are fire resistant
- Can obtain quality finishing surface - variety of shapes, colours and textures for different applications
- Provision for mechanical, electrical and plumbing fittings can be provided in the casting moulds
- Precast concrete panels offers superior weather/water proof qualities
- Precast production facilities are incorporated with complete Environmental, Health & Safety standards
- Optimized use of material due to repetitive use of indigenous steel or wooden moulds

ACCOLADES

Three 5+23 storey total precast concrete high-rise buildings in the Pragati Towers in Mumbai was awarded “The Best Engineering Marvel Award - 2013” by the Engineering Watch along with the Public Choice Award. This project has also won the “Dr. A. Ramakrishna award for the best project with precast concrete in India - 2014” from Indian Concrete Institute, India.