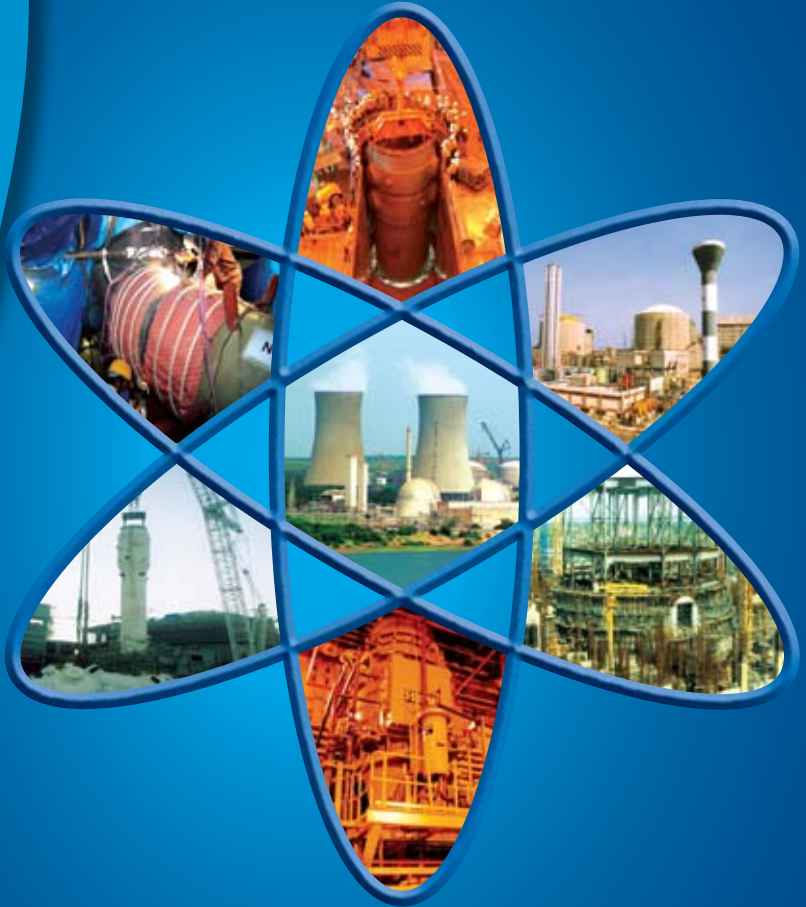




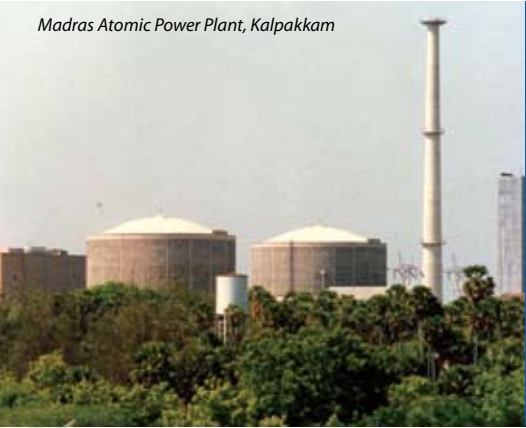
**LARSEN & TOUBRO**

It's all about Imagineering



**Construction Expertise to meet the  
Nuclear Power Challenge**

*Madras Atomic Power Plant, Kalpakkam*



Larsen & Toubro Limited (L&T) is an USD 9.8 billion engineering, construction, manufacturing and technology conglomerate with global operations. It is one of the largest and most respected companies in India's private sector.

The Engineering, Construction and Contracts (ECC) Division of L&T is the largest construction organization in the country. It figures among the World's 225 Top Contractors and ranks 34<sup>th</sup> in global ranking as per the survey conducted by

*Induced draft cooling tower for Kaiga*



the reputed international construction magazine Engineering News Record, USA (August 2010).

The Construction Division's cutting edge capabilities cover every discipline of construction— civil, mechanical, electrical & instrumentation engineering and services extend to large industrial and infrastructure projects from concept to commissioning.

## **Nuclear Power Sector**

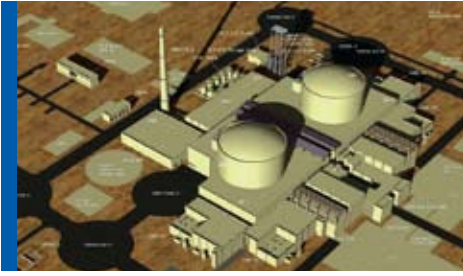
L&T offers specialized construction services in the Nuclear Power sector which is considered as one of the key



*Reactor Building at Madras Atomic Power Plant, Kalpakkam*

sustainable energy sources of the future. It has the capability and expertise to construct critical and complex structures covering civil, structural, mechanical and electrical works with international quality standards. Comprehensive and turnkey construction solutions are offered for the entire Nuclear value chain i.e. Nuclear Power plants, Fuel fabrication & Fuel reprocess plants, waste management facilities, research facilities etc.,

Over the past 5 decades, L&T has played a significant role in constructing a majority of nuclear facilities in India. Some of



*Kakrapar Nuclear Power Project 3&4 (2 X 700 MWe) - One of the Largest NPP Civil Package ever awarded In India by NPCIL*

the significant projects executed were Madras atomic Power plant 1&2, Kaiga atomic power plant 1&2, Tarapur Atomic power plant 3&4, Spent fuel storage facility - Tarapur, Fuel reprocess facility at Kalpakkam etc.,

## Capabilities

ECC can provide complete construction solutions for civil, mechanical, electrical



*Turbine Erection for Kudankulam Nuclear Power Project*

& instrumentation works for the entire nuclear power value chain :

## Civil

- ❖ Civil Construction of complete plant & marine structures
- ❖ Latest construction methods and best practices
- ❖ NABL accredited R&D laboratory - supports the projects



*Unit 3 & 4 at Tarapur Atomic Power Project*



2 x 1000 MWe Kudankulam Nuclear Power Plant

- ❖ Integrated project management skills
- ❖ IPMA & ACE, UK certified project managers

## Mechanical

- ❖ EPC solutions for primary piping systems, utilities - HVAC, common services, cooling water system
- ❖ Plant Piping fabrication, assembly & erection, integration and testing
- ❖ Expertise in handling and erection of heavy equipment
- ❖ Global supply chain management cell to undertake competitive sourcing of material.

## Electrical & Instrumentation

- ❖ Design, sourcing, assembly & installation, integration, testing and commissioning of complete plant electrical system
- ❖ Complete solution for instrumentation and control system

## Track Record in Nuclear Power

L&T has the distinction of making constructive contribution to most of the Nuclear power plants in the country. Some of the important projects includes:

**Madras Atomic power plant (MAPP) 1&2**

**Kaiga atomic power plant (KGPP) 1&2**

**Tarapur atomic Power Plant (TAPP) 3&4**

**Kudankulam nuclear power project (KKNP) units 1&2 (ONGOING)**

**Kakrapar nuclear power project (KAPP) units 3&4 (ONGOING)**

**RAWATHBHATA Atomic Power project 2 x 220 MW (Units 3&4)**

**KAIGA Atomic Power project 2 x 220 MW (Units 3&4)**

**Rawatbhata Atomic Power Project 5&6 (Unit 5&6)**



**LARSEN & TOUBRO**

It's all about Imagineering

Larsen & Toubro Limited - ECC Division, Mount Poonamallee Road, Manapakkam, P.B.No.979, Chennai - 600 089  
Tel: 044-2252 8805, 2252 8894 Fax: 044-2249 3317 E-mail: es@Lntecc.com www.Lntecc.com