

# ANNUAL REVIEW 2023

#TechnologyForSustainableGrowth



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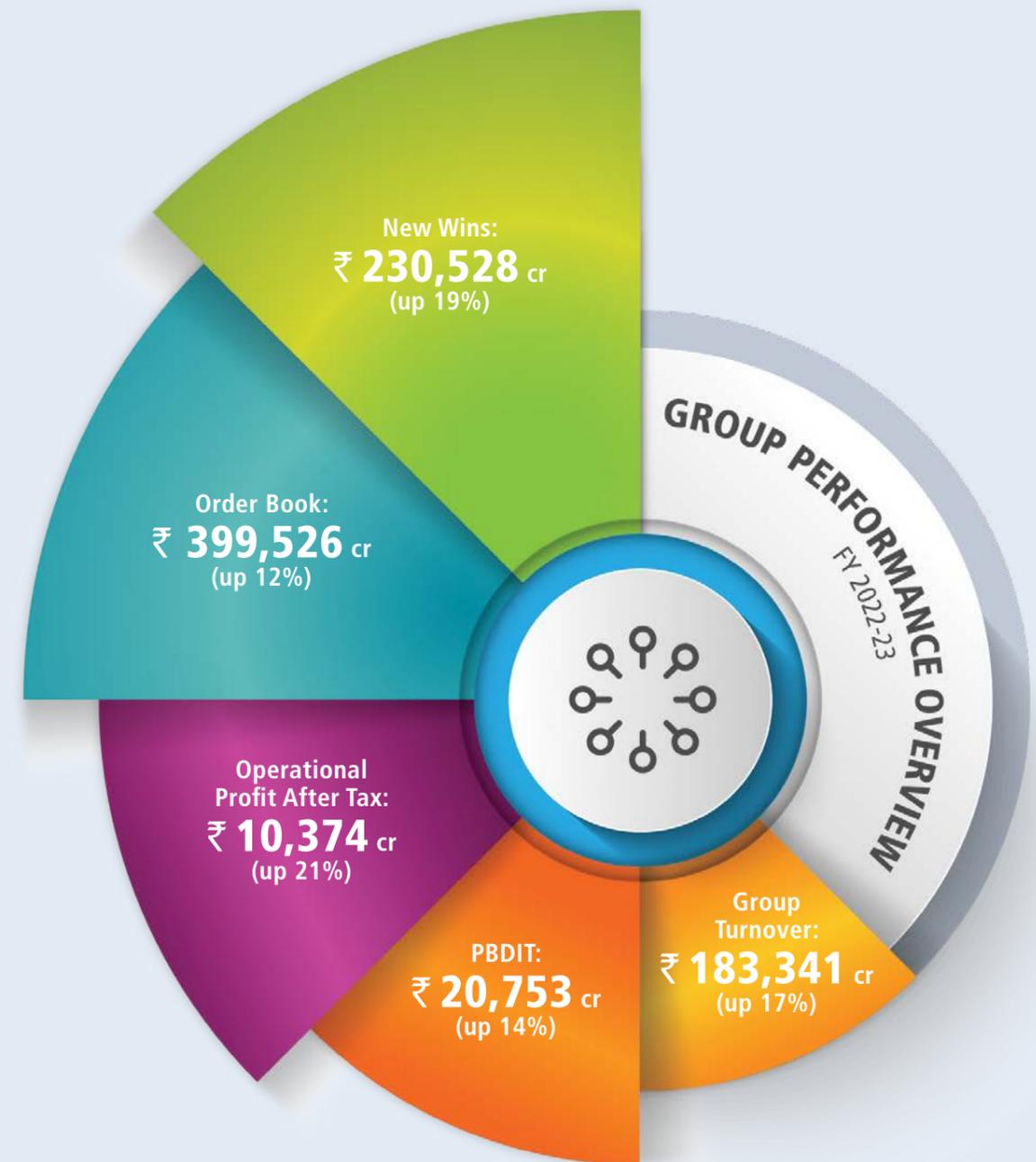
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## SUSTAINABILITY

76



## LEADERSHIP TEAM



**A. M. Naik**  
Group Chairman



**S. N. Subrahmanyam**  
CEO & Managing Director



**R. Shankar Raman**  
Whole-time Director &  
Chief Financial Officer



**Subramanian Sarma**  
Whole-time Director &  
Sr. Executive Vice President  
(Energy)



**M. V. Satish**  
Whole-Time Director &  
Sr. Executive Vice President  
(Buildings)



**S. V. Desai**  
Whole-Time Director &  
Sr. Executive Vice President  
(Civil Infrastructure)



**T. Madhava Das**  
Whole-Time Director &  
Sr. Executive Vice President  
(Utilities)



**Anil V. Parab**  
Whole Time Director &  
Sr. Executive Vice President  
(Heavy Engineering & L&T Valves)

As on 10. 05. 2023

## EXECUTIVE COMMITTEE (ECOM)



**S. N. Subrahmanyam**  
CEO & Managing Director



**R. Shankar Raman**  
Whole-Time Director &  
Chief Financial Officer



**Subramanian Sarma**  
Whole-Time Director &  
Sr. Executive Vice President  
(Energy)



**M. V. Satish**  
Whole-time Director &  
Sr. Executive Vice President  
(Buildings)



**S. V. Desai**  
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(Civil Infrastructure)



**T. Madhava Das**  
Whole-Time Director &  
Sr. Executive Vice President  
(Utilities)



**Anil V. Parab**  
Whole-Time Director &  
Sr. Executive Vice President  
(Heavy Engineering and L&T Valves)



**Shrikant Joshi**  
CEO & Managing Director  
L&T Realty



**D. K. Sen**  
Advisor to the CEO & MD  
(Development Projects, Minerals & Metals,  
L&T Special Steels & Heavy Forgings and L&T Aviation)



**J. D. Patil**  
Advisor to the CEO & MD  
(Defence & Smart Technologies)

As on 10. 05. 2023

# EPC PROJECTS

Larsen & Toubro has acquired a high degree of expertise in undertaking projects of unprecedented scale, scope, and sophistication on an EPC (Engineering-Procurement-Construction) basis across the construction and hydrocarbon spectrums as well as power plants and equipment. L&T collaborates with global majors for the design and execution of projects, and is a leader in the EPC world.



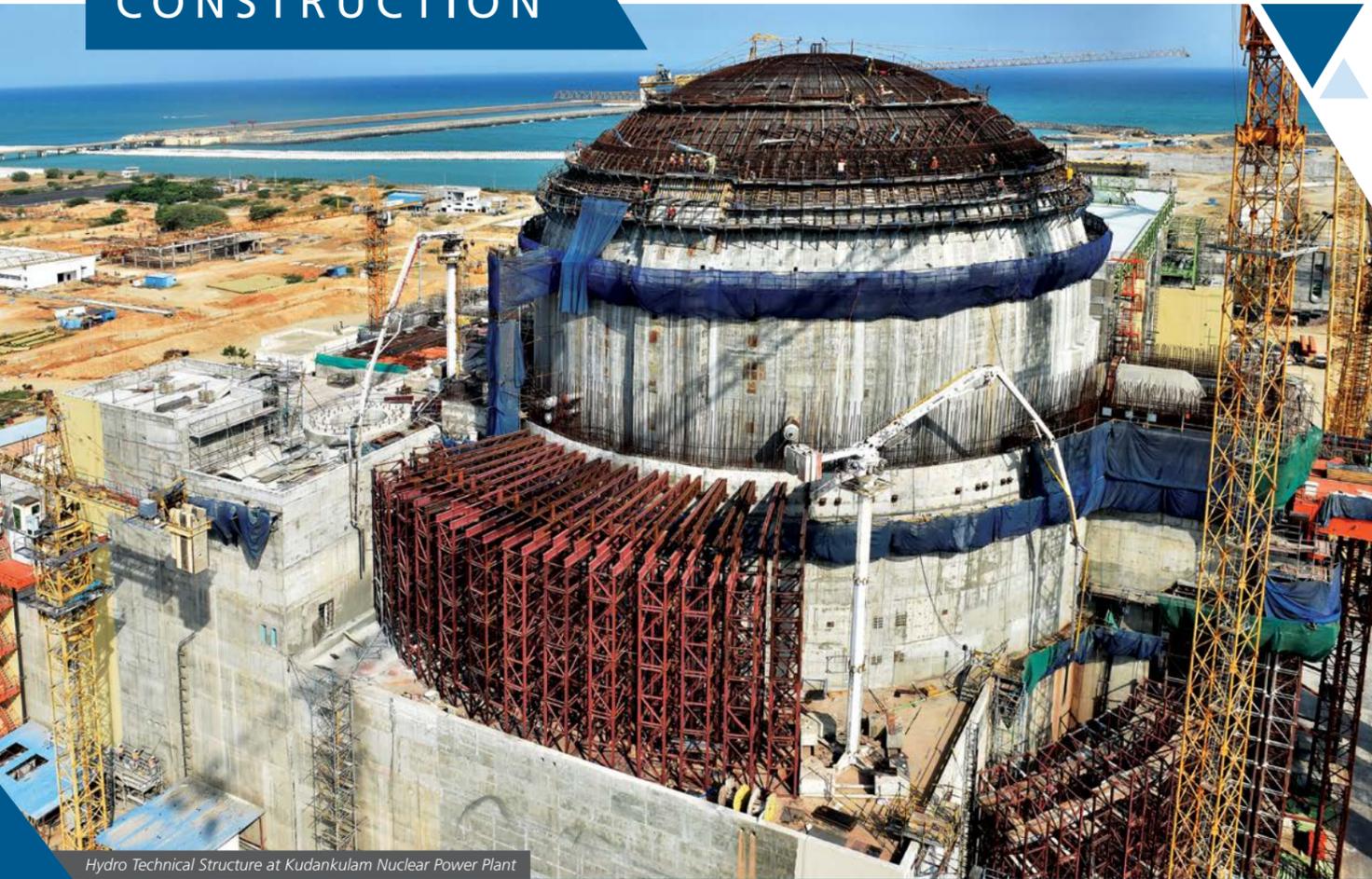
## CONSTRUCTION

## ENERGY

From infrastructure projects to offshore oilfields to power plants, L&T's range of EPC solutions is powered by an array of unmatched in-house design-to-delivery capabilities.



# CONSTRUCTION



Hydro Technical Structure at Kudankulam Nuclear Power Plant

Many landmark projects in India – and increasingly overseas – bear L&T Construction’s indelible stamp of excellence – reflecting a track record spanning several decades.

The multiple businesses of L&T Construction have distinct but complementary capabilities, addressing different segments of infrastructure and industry.

L&T Construction executes projects on a turnkey basis, with single-source responsibility, adopting innovative design engineering and a global supply chain. Digitalisation,

mechanisation and the ability to mobilise large, highly-trained crews enable it to meet stringent deadlines and rigorous standards. At every project site and establishment of L&T Construction, the highest priority is accorded to the environment, health, and safety.

A safe work culture is intensively propagated to conform to – and even surpass – international standards.

HEAVY CIVIL  
INFRASTRUCTURE

POWER  
TRANSMISSION &  
DISTRIBUTION

TRANSPORTATION  
INFRASTRUCTURE

L&T  
GEOSTRUCTURE

WATER & EFFLUENT  
TREATMENT

BUILDINGS &  
FACTORIES

MINERALS & METALS

Ranked amongst the top contractors, L&T Construction contributes significantly to building the image and stature of Larsen & Toubro across the world and driving L&T’s reputation as ‘the builder of the India of the 21st century’



Tunneling work in progress for RVNL Package, Uttarakhand

## HEAVY CIVIL INFRASTRUCTURE

The Heavy Civil Infrastructure vertical of L&T Construction undertakes design, engineering, and execution of projects in several segments that are critical to the economy.

The business’ in-house design strengths and unique construction methodology cells provide competent concept-to-commissioning solutions to meet the complex requirements of its customers.

L&T’s Heavy Civil infrastructure vertical takes pride in building iconic structures, thus contributing to nation-building.

### KEY OFFERINGS

Metros | Special Bridges | High Speed Rail  
Nuclear Projects | Hydel and Irrigation  
Projects | Tunnel Projects | Ports, Harbours,  
and other Marine Structures



Mumbai-Ahmedabad High-Speed Rail Project

## SNAPSHOT

### KEY GEOGRAPHIES



## NEW ORDERS

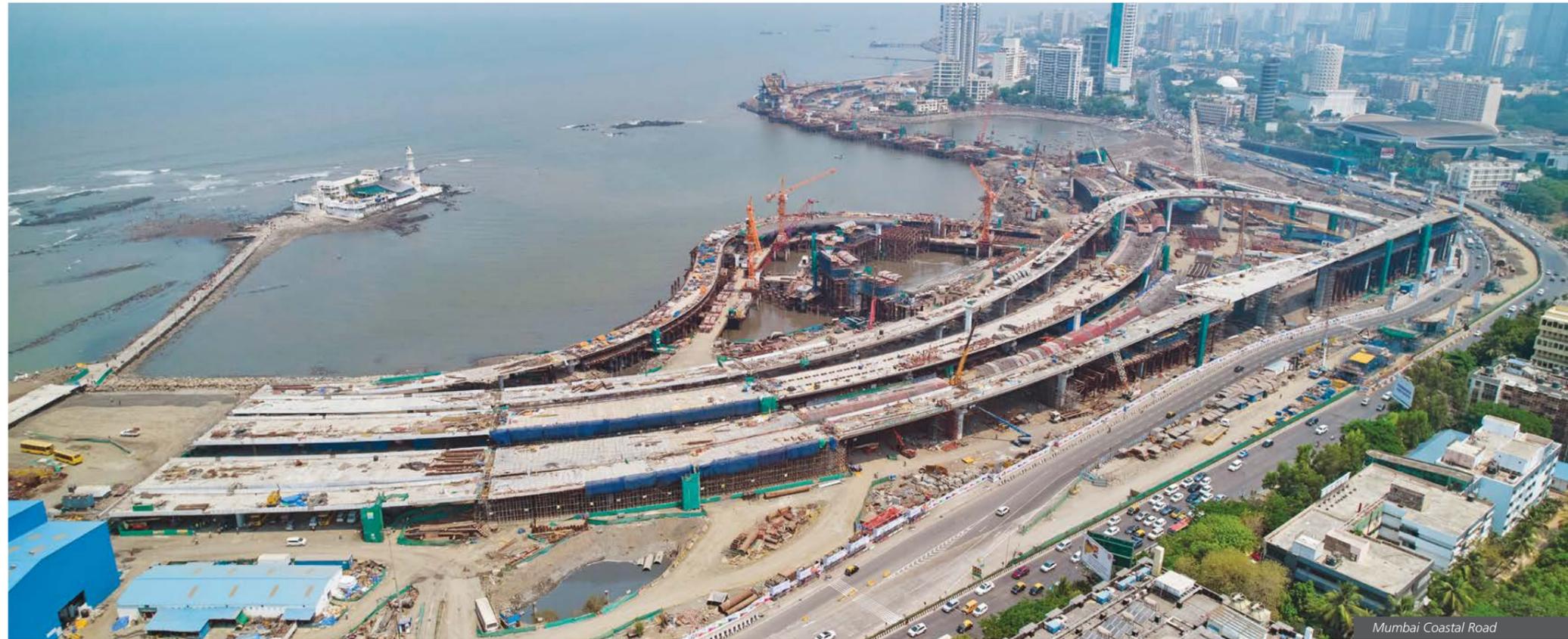
4 projects

Chennai Metro- CMRL CP08 EV-01

Rajasthan Atomic Power Project (RAPP) 7&8 – NDCT

Gandhi Sagar 1440W Pump Storage Project

Lakwar Multipurpose Project – 300 MW



Mumbai Coastal Road



## TRACK RECORD

(including ongoing jobs)

9

**243 km**

High Speed Rail

**264 km**

Metro Project (Elevated)

**156 km**

Metro Projects (UG)

**54 km**

Railway Bridges

**81 km**

Road Bridges

**13**

Dams / Barrages

**66 km**

Road / Rail Tunnels

**85 km**

Hydro Tunnels

**10**

Powerhouses and Caverns

**11.2 m dia.**

India's largest TBM @ MCRP 4

**220 m**

Below ground level – one of the largest LPG underground storage caverns of its kind, and the first of its kind in South Asia

**5**

Greenfield Ports Commissioned

**45 km**

Breakwater and Rock Structures

**12 km**

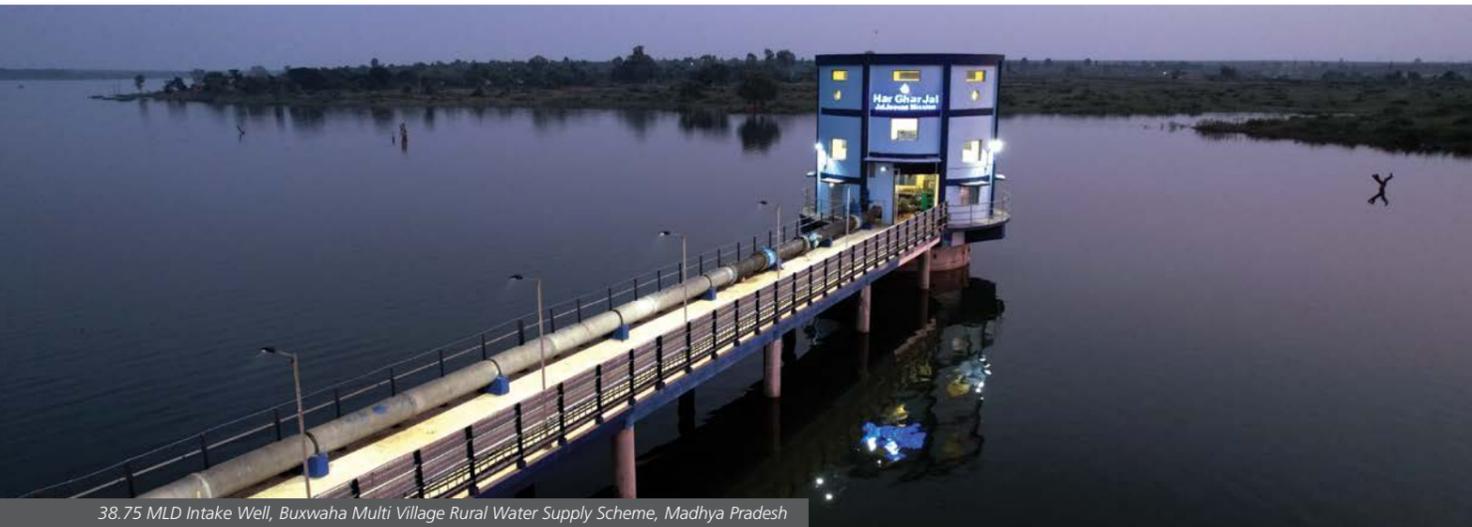
Berthing Structures

**3**

Shipyards Structures



Mumbai Trans Harbour Link



38.75 MLD Intake Well, Buxwaha Multi Village Rural Water Supply Scheme, Madhya Pradesh

## WATER & EFFLUENT TREATMENT

L&T's Water & Effluent Treatment business specializes in building comprehensive water management infrastructure with capabilities covering engineering, design, procurement, construction and commissioning of water and wastewater treatment plants. The business provides end-to-end solutions for drinking water, irrigation, wastewater and industrial effluent treatments.

### KEY OFFERINGS

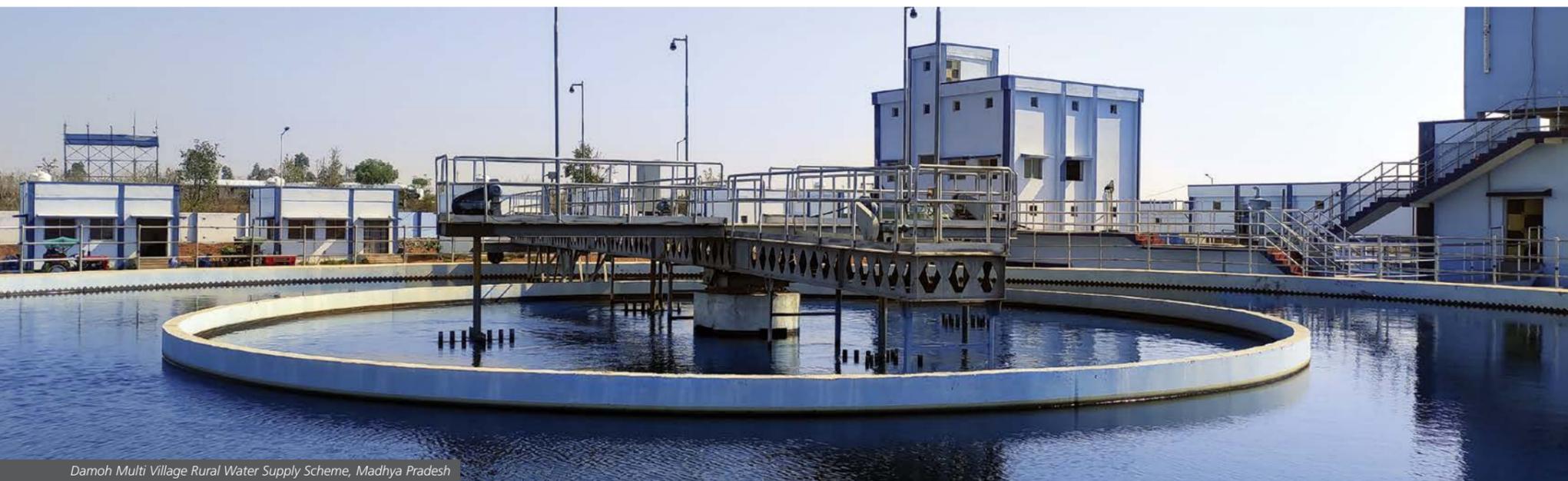
Urban & Rural Water Supply | Industrial Water Supply | Water Treatment Plants  
Sewage Treatment Plants | Effluent Treatment Plants | Wastewater Collection Network | Desalination  
Micro & Lift Irrigation Projects | Water Management | Smart Water Infrastructure



Dahej Desalination Plant-1



Sewage Treatment Plant, Coimbatore



Damoh Multi Village Rural Water Supply Scheme, Madhya Pradesh



Nuapada Water Supply Project, Odisha

## SNAPSHOT

### KEY GEOGRAPHIES



### NEW ORDERS 18 projects

- Large Water Supply - 7
- Rural Water Supply - 6
- Urban Water Supply - 1
- Smart Infra - 1
- Wastewater - 3

### COMPLETED PROJECTS 10

### TRACK RECORD (including ongoing jobs)

**9.3 Lakh**

Hectares of land being brought under irrigation

**7500**

Hectares of smart infrastructure being developed

**5 lakh+ km**

Channelised Water and Wastewater Network

**7200 MLD**

of Water Treatment Plants

**95 million**

people benefitted

**2100 MLD**

of Wastewater Treatment Plants



380 kV Marjan Substation, KSA

## POWER TRANSMISSION & DISTRIBUTION

A leading EPC player in the field of transmission and distribution and solar energy, this business vertical offers integrated solutions and end-to-end services encompassing design, manufacture, supply, installation, and commissioning. Its unique in-house capabilities include one of the world's largest tower manufacturing and testing stations and advanced digital energy solutions.

### KEY OFFERINGS

Transmission Lines | Substations | Underground Cable Networks | Distribution Networks  
Power Quality Improvement Projects | Solar PV Plants | Battery Energy Storage Systems  
Mini / Micro-grid Projects | Digital Energy Solutions



Pooling Substations A & B, Sudair Solar PV Project, Saudi Arabia

## SNAPSHOT

### KEY GEOGRAPHIES



## DOMESTIC ORDERS 22 projects

- Distribution Modernisation & Automation – 9
- Gas & Air Insulated Substations – 5
- Transmission Line Corridors – 5
- Solar Plants including Floating Solar & BESS – 3

## INTERNATIONAL ORDERS 19 projects

- Substation Project Clusters – 11
- Transmission Line Corridors – 6
- Large Ground-mounted Solar Plants – 2

## COMPLETED PROJECTS 45 projects

- Major Transmission Corridors – 5
- Major Substation Projects – 30
- Households Illuminated – 17,485
- Major Solar Plants – 4

## TRACK RECORD (including ongoing jobs)

**45,345 ckm**

of Transmission Lines

**905 EHV**

Substations Including India's First  
1200 kV AIS and 765 kV GIS

Over

**100,000+**

Habitations Electrified

**3.6 GWp**

of Solar Power Plants



Battery Energy Storage System Installation, Thailand



230 MW NTPC SPV Power Plant, Ettaiyapuram, Tamil Nadu



Central Armed Police Forces Institute of Medical Sciences, Delhi

## BUILDINGS & FACTORIES

The expertise of this business vertical lies in offering 'turnkey solutions', from 'concept-to-commissioning' across the entire spectrum of Building infrastructure. Powered by dedicated engineering design centres, competency cells, advanced formwork systems, mechanised project execution, a wide network of consultants and vendors, digitised project control and a talented pool of employees, the business is an industry leader in its space in India and in targeted overseas markets.

### KEY OFFERINGS

Airports | Hospitals | Stadiums | Statues | Hotels | Institutional Buildings | Data Centers  
IT Parks and Office Buildings | High-rise Structures | Mass-housing Complexes, incl. Precast Housing  
Light Factory Structures and Cement Plants | Manufacturing Facilities | Test Tracks  
Warehousing Facilities | Fast-Track Modular Construction



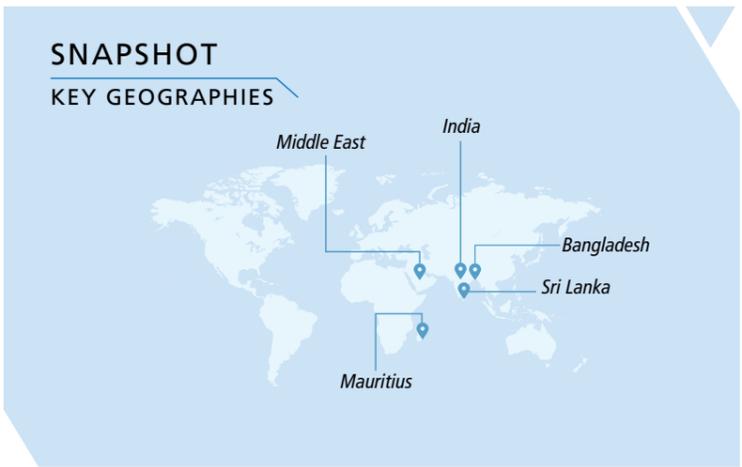
Kempegowda International Airport, Bengaluru



Birsa Munda International Hockey Stadium, Rourkela, Odisha



CIDCO, Navi Mumbai



Super Speciality Hospital, Warangal



Artists Impression

The Prestige City, Mumbai



Bangladesh Hi-Tech Park

Artist's Impression

## COMMISSIONED PROJECTS IN FY23

Airports – 4 (30 MPPA cumulative capacity)

Hospital Beds – 2,000+ beds

Office Spaces – 40 lakh sq. ft.

Educational Institutes – 10 Lakh sq.ft.

Cement Plants – 10.1 MTPA

Residential – 5,000+ dwelling units

Data Center – 7 MW

## NEW ORDERS 23 projects

Health – 3

ITOS & DC – 3

Public Spaces – 6

Factories – 5

Residential – 2

Fast track & Modular - 4

## TRACK RECORD (including ongoing jobs)

**12**

International Airports

**27,000+**

Hospital Beds

**3,10,000+**

IT Seats

**81,500+**

Dwelling Units

**90+**

Manufacturing Facilities



Government Medical College & Hospital, Golaghat, Assam

Artist's Impression



NPCI Data Center, Chennai



State-of-the-art Operations Control Centre -Dhaka Metro Line 6

## TRANSPORTATION INFRASTRUCTURE

L&T's Transportation Infrastructure Business comprises two Strategic business Groups (SBGs) viz; Railway Business Group (RBG) and Roads, Bridges & Formations (RBF)

RBF is one of the foremost builders of roads, elevated corridors, bridges and runways in India and the Middle East. We design and construct a wide array of elevated corridors, super structures, expressways, National and State highways, complex road interchanges and bridges. We also design and construct airside infrastructure of both greenfield and brownfield airports for civil and defence purposes including runways incorporating CAT IIIB instrument landing systems, taxiways, aprons and service roads, Elevated Cross Taxiway (ECT) and Utilities and Auxiliary Systems.

RBG offers turnkey Design-Build / EPC solutions for Railway, Integrated Transit System, and E&M Systems for Urban Transit Project. For the JICA funded WDFC and World Bank funded EDFC, the SBG is executing mega projects on a Design-Build basis in Civil and Track work, E&M works, and S&T. Scale and speed have been the hallmark of these projects – executed through state-of-the-art mechanised methods. In the realm of Urban Transit, the SBG has executed a 29.5 km Integrated Transit System in Mauritius. The SBG has been associated with Systems works for various Transit Systems in India, Riyadh Metro and JICA funded Dhaka Metro System works including CBTC Signalling.

### KEY OFFERINGS

Roads & Bridges | Elevated Corridors | City Infrastructure (Transportation) | Runways (Airside Construction) | Integrated /Composite Railway Projects | Heavy Haul Dedicated Freight Corridors | System Integration - Mainline Projects | Integrated Mass Transit System (Metro / LRT / Monorail) | Systems Works & Integration - Mass Transit (Track, OHE, CBTC)

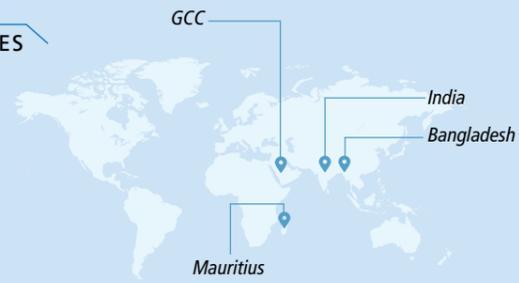


Pre-Cast Slab Track System for Delhi Meerut RRTS (81 km)



Freight Train running on 2.5 km Viaduct in WDFC CTP 14 - Integrated Project involving Civil, Track, Traction and Signaling (316 tkm)

SNAPSHOT  
KEY GEOGRAPHIES



NEW ORDERS

6

Formations & Structures - 1  
Railway - 5

COMMISSIONED JOBS

11

Roads & Highways - 8  
Formations & Structures - 1  
Railway - 2



Mumbai Nagpur Expressway



Mauritius Metro Yard



Pragati Maidan Project, Delhi

## ONGOING PROJECTS

Roads, Interchanges & City Infra – 1,738.00 Lkm  
 Elevated Corridors – 9.00 Lkm  
 Track Construction – 1,383 TKm  
 Electrification – 4,267 TKm  
 Railway Formations – 492 RKm  
 High Speed Rail Viaducts – 11 Rkm

## COMPLETED PROJECTS

Roads, Interchanges & City Infra – 21,396.00 Lkm  
 Elevated Corridors – 108.00 Lkm  
 Runways – 10.38 Mn. sq. m.  
 Track Construction – 4,330 TKm  
 Electrification – 16,234 TKm  
 Railway Formations – 763 Rkm  
 Smart Cities – 22 sq. km

## MINERALS & METALS

L&T's Minerals & Metals business is a leading EPC solutions provider in the fields of minerals, metals and finishing for large industrial, steel, aluminium, copper, zinc and gold complexes, associated facilities and the mining industry. The business offers integrated solutions for a wide range of systems and equipment for Steel, Mining, Cement and Port sectors, powered by in-house design, engineering, manufacturing, construction and commissioning capabilities.

## KEY OFFERINGS

Mineral Beneficiation | Iron and Steel Making | Aluminium, Zinc, Copper, Gold Smelters & Refiners  
 Speciality Conveyors | Crushing & Material Handling Equipment



Mumbai Vadodara Expressway



Steel Melt Shop-2, 350 Ton Converter-1, Dolvi



Torpedo Ladle Car



Utkal Alumina Expansion Project, Rayagada

## SNAPSHOT

### KEY GEOGRAPHIES



### NEW ORDERS

76 projects (FY 22-23)

Domestic Projects – 9

Surface Miners – 24

Crushing Solutions – 17

Aggregate & Sand Manufacturing Solutions – 6

Material Handling Equipment – 20



### COMMISSIONED PROJECTS

41

Ferrous & Non-ferrous Projects – 5

Surface Miners – 10

Crushing Solutions – 14

Aggregate & Sand Manufacturing Solutions – 6

Material Handling Equipment – 6



### TRACK RECORD

(including ongoing jobs)

40

Million Tonnes of Hot Metal (Iron) making

19

Blast Furnaces

12

Coke Ovens

15

Mineral Beneficiation Plants, Crushing & Screening Plants

13

Steel Melt Shops & Casters

13

Rolling & Finishing lines

11

Sinter and Pellet Plants

9

Al/Zn Smelter Refinery Plants

105

Material Handling Plants

8

Ash Handling Plants

498 km

Conveyors

157

Stockyard Equipment

128

Wagon Tipplers

1000 +

Crushers

103

Surface Miners

55

Aggregate & Sand Manufacturing Solution

## L&T GEOSTRUCTURE

This business vertical specialises in executing challenging underground structures comprising of Deep Basements, Retaining structures (Embedded & Elevated), Metro works, Riverine Works across various sectors.

The business has unique expertise in construction of Jetties, Berths, Intake well of large diameter, Plastic Concrete Cut off Wall, Deep Diaphragm walls, Ground Improvement methods.

It engages in consultative selling by providing alternative designs and cost-effective solutions with the help of a robust in-house design team.

It has a large fleet of high-end hydraulic piling rigs, Reverse Circulation Drilling rigs, Trench Cutters, Grab, various capacity of cranes, vibro-hammers, and other ground engineering equipment to execute challenging projects, both in terms of complexity and time. Also, it owns Jack-up Barge to support marine projects.

### KEY OFFERINGS

Large Diameter Bored and Driven Piles | Stone Columns and Vibro-compaction | Retaining structures | Cut-off Walls | Composite Dams | Marine Structures | Multi-cellular Intake Structures | Riverfront Structures | Flood Protection Works

### GEOGRAPHICAL EXPANSION

L&T Geo has expanded its business in the North-eastern region and has secured back-to-back orders in Assam Region. Major clients are Numaligarh Refinery Limited and Assam Inland Waterways Transport Development Society.



NEW ORDERS SECURED 7



COMPLETED PROJECTS 4



ONGOING PROJECTS 23



Mansourah Massarah Gold Project



Kanupur Cut-Off Wall

# ENERGY HYDROCARBON



Marjan Yard - II Project - Sohar, Oman

L&T's Hydrocarbon business, under L&T's Energy portfolio, offers integrated 'design-to-build' solutions for complex onshore and offshore hydrocarbon projects across multiple geographies. Its track record includes simultaneous execution of multiple, complex, large-value projects meeting stringent delivery schedules, quality, and safety norms. In-house capabilities are complemented by partnerships with global leaders, while its competitive strengths in project management, engineering, procurement, fabrication, manufacturing, construction, installation, and commissioning, combined with best-in-class QHSE standards, enable it to consistently deliver on all parameters.

Safety and Quality are our core values and are an integral part of our business. The company continues its efforts to build a positive safety and quality culture. We believe that every incident is preventable. Our 'Zero Incident' credo implies that we are committed to providing a safe and healthy workplace without adversely affecting the environment. QHSE Digitalization was one of the prime focus areas in the Year.

During FY 2022-23, we continued our efforts to set new benchmarks in Quality, Health, Safety & Environment (QHSE) by:

- Achieving an LTI frequency rate of 0.03 against an industry average of 0.15 (OGP value for 2021)
- Organizing a Future Ready HSE Symposium in collaboration with Petroleum and Explosives Safety Organization (PESO)
- Launching of the digital initiative, Interactive Virtual Reality (VR) Simulation Training on Pre-commissioning & Commissioning Activities
- Starting learning sessions on past incidents - 'Learn, Unlearn and Relearn' programme for encouraging lateral learning and emphasis on corrective actions
- Enhancing Quality culture with the launch of 'Qurated'- a long-term programme to provide opportunities for curated learnings on best practices, innovations and lessons learnt, webinars on subjects-on-demand, campaigns to address frictional areas and awareness trainings
- Rolling out of Behavior Based Procedure that is focused on addressing the antecedents for At-Risk Behaviours on site for a sustainable Safety Culture
- Developing Project Quality Index (PQI) Module to monitor Quality performance of Projects

- Receiving 19 HSE and 2 Quality awards from prestigious industry bodies and forums domestically and internationally
- Receiving 5 Certificates of Appreciation from clients for HSE and Quality performance and project safety milestones

## AWARDS & RECOGNITION

OFFSHORE

ONSHORE

CONSTRUCTION SERVICES

MODULAR FABRICATION

AdVENT (ADVANCED VALUE ENGINEERING & TECHNOLOGY)

ASSET MANAGEMENT

OFFSHORE WIND BUSINESS

## KEY GEOGRAPHIES



## NEW ORDERS 22

- Offshore - 8
- Onshore - 2
- Construction Services - 1
- Modular Fabrication - 7
- AdVENT - 3
- Asset Management - 1

## SNAPSHOT

## COMPLETED PROJECTS 15

- |                         |             |                           |
|-------------------------|-------------|---------------------------|
| Offshore - 2            | Onshore - 5 | Construction Services - 3 |
| Modular Fabrication - 2 | AdVENT - 3  |                           |



Ethylene Glycol Unit & Ethylene Recovery Unit for Indian Oil Corporation at Paradip Refinery in Odisha, India

## OFFSHORE

The business undertakes FEED and EPCIC projects encompassing the entire hydrocarbon value chain – from oil & gas production to processing. Its comprehensive engineering capabilities span the complete project life cycle, while its in-house modular fabrication facilities at three strategic locations impart flexibility in project control and cost-competitiveness. LTS 3000, a heavy-lift-cum-pipelay vessel and LTB 300, a pipelay-cum-work barge help expedite offshore installation, ensuring on-time completion of projects.

### KEY OFFERINGS

Process complexes and wellhead platforms | Gas compression modules | Subsea pipelines and systems  
Brownfield and upgradation projects | Living quarters platforms | FPSO modules and jack-up rigs  
Decommissioning solutions | Deepwater subsea manifolds and structures  
Transportation and installation services

### TRACK RECORD

<b>10</b> New Process Platforms	<b>78</b> Wellhead Platforms (Jacket + Topside)	<b>44</b> Wellhead Topsides	<b>70</b> Wellhead Jackets	<b>17</b> Gas Compression Modules	<b>1815 km</b> Subsea Pipe Laying
<b>4</b> Jack-up Rigs Refurbishment	<b>10</b> Living Quarters	<b>2</b> Deepwater Projects	<b>310</b> Platforms Modifications	<b>8</b> FPSO Topsides Engineering	



NLRNC - RT2 Project for Oil & Natural Gas Corporation



Marjan Yard -II Project -Sohar, Oman

## ONSHORE

The business has in-house FEED, process and detailed engineering, procurement, fabrication, construction, and commissioning (EPC) capabilities built over three decades, delivering execution excellence for its customers worldwide. It has experience in executing projects based on technologies from leading global process licensors and also undertakes projects on a License + EPC package basis, depending on the client's requirements.

### KEY OFFERINGS

Upstream oil & gas processing and treatment facilities | Petroleum refining projects | Fertilizer projects | Petrochemical projects | Cross-country pipelines and terminals | Cryogenic storage tanks and regasification terminals | Coal / pet-coke gasification projects



Crude & Vacuum Distillation Unit (CDU/VDU) for Hindustan Petroleum Corporation, Vizag Refinery at Andhra Pradesh, India



LNG Storage Tank Project for Adani Dhamra LNG Terminal, Odisha, India



### TRACK RECORD

**50+**

Petroleum Refining Units

**22**

Oil & Gas Processing Projects

**2**

Petrochemical Complexes

**10**

Petrochemical Units

**7000+ km**

Cross-country Pipelines

**10**

Oil and Gas Terminals

**9**

Syngas and Ammonia Projects

**10**

Cryogenic Storage Systems

**83**

Cracking Furnaces and Reformers



Ammonia Urea Plant for Hindustan Uravak & Rasayan Limited at Barauni, Bihar, India



New Strategic Gas Export Pipeline (30" / 40" dia x 146 km) from North Kuwait to MAA for Kuwait Oil Company



Central Processing Facilities (CPF) facilities of South West Gas Fields Development Project for Sonatrach, Algeria

## CONSTRUCTION SERVICES

The business offers turnkey construction of refinery, petrochemical, fertilizer projects, gas-gathering stations, cross-country oil & gas pipelines, and terminals, including LNG and oil storage tanks and underground cavern storage systems for LPG.

It offers innovative construction solutions with cutting-edge technology and digital monitoring. Its major capabilities include heavy-lift equipment erection competency, application of advanced welding technologies with high levels of automation, management of manpower and material in large volumes at construction sites and Quality / HSE systems conforming to international practices. Most projects executed are more than 10 million construction man-hours, cumulating to 100 million+ man hours in a year.

### KEY OFFERINGS

Pile foundations | Complete civil and structural work, including pre-casting | Plant and non-plant buildings, including pre-cast buildings | Piping and mechanical works, including modular construction/ erection | Complete electrical & instrumentation works | Tankages including LNG tanks | Cross-country and field development pipelines



Raba and Hanya Phase 2 Field Development Project, Oman



New 48" Crude Transit Line from North Kuwait to CMM (TL-5) Project for KOC, Kuwait

## MODULAR FABRICATION

The business offers comprehensive Modular Solutions primarily for Offshore and Onshore Oil & Gas Industry and Offshore Wind Farm Projects. It leverages rich and extensive experience of engineering and integrated project management systems of EPC businesses in combination with its world-class modular fabrication expertise.

Three strategically located Modular Fabrication Facilities at Hazira (India's west coast), Kattupalli (India's east coast) and Sohar (Oman) are equipped with state-of-the-art infrastructure and machinery for operations, fine-tuned execution procedures supported with digitalized processes and robust QHSE performance and have a combined annual capacity of around 200,000 MT (depending on the product mix). These facilities are accredited with global certifications and pre-qualifications from various Oil & Gas majors. These all-weather, waterfront facilities with captive load-out jetties offer year-round delivery of complex, large and heavy modules, structures & equipment on ocean-going vessels and barges providing logistical flexibility, on-time delivery and cost competitive solutions.

A Piping shop and the newly launched heavy-wall pressure vessel manufacturing shop in the Kingdom of Saudi Arabia will cater to the local market and help in developing local skills.

### KEY OFFERINGS

**Offshore:** Structures & modules for Oil & Gas and Wind Farm projects including Deepwater subsea structures, jack-up rigs and Mobile Offshore Production Units (MOPU)

**Onshore:** Process & Piperack modules, skids, LNG modules, structures, static equipment, modular specialty furnaces, prefabricated control rooms / substation buildings (E-houses)



Onshore PAU & PAR Modules for Clean Fuels Project – Thai Oil



28 Jackets: Ready for Load Out

## AdVENT (ADVANCED VALUE ENGINEERING & TECHNOLOGY)

AdVENT is one of the business verticals established in order to offer value added solutions to clients. It adds new dimensions in the areas of modular solutions, cutting-edge hydrocarbon technologies, hydrocarbon and specialty chemical industries.

Leveraging expertise in high-end engineering and execution of large-scale, technologically complex EPC projects over three decades and collaborating with well-organized R&D centres and renowned institutions, AdVENT strives to deliver comprehensive customer-centric solutions for the entire value chain of the Hydrocarbon and emerging industries for the future.

AdVENT's technical capabilities and agility enable it to offer associated tailored value engineering solutions such as product modularization, supporting customers in re-purposing study of existing assets and adoption to energy transition.

### KEY OFFERINGS

Full-spectrum engineering | Technology co-development and commercialization | Strategic project delivery  
Integrated modular solutions | Emerging technology-driven and innovative business models covering refinery technologies and sustainable waste-to-energy solutions



India's 1st & World's 2nd Largest Off-Gas to Ethanol (3G Ethanol) Plant, IOCL Panipat Refinery, India

## ASSET MANAGEMENT

The Asset Management (AM) business delivers differentiated and value-adding services across a wide spectrum of solutions to hydrocarbon and allied process industries. These comprehensive Asset Management solutions extend the organization's design, engineering, construction, and commissioning capabilities to cover operations, maintenance, performance enhancement and health assessment of critical assets. Thus, the business complements the organization's EPC project offerings for mutually beneficial engagement with clients over the entire lifecycle of assets.

The Asset Management portfolio provides a holistic approach to the solution delivery model and is built based on three key differentiators, viz., comprehensive and cohesive processes, robust competence assurance plan and appropriate digital enablement

### KEY OFFERINGS

Asset management consulting | Asset management (Operation & Maintenance) outsourcing | Asset integrity services | Asset performance improvement | Specialized services (start-up/commissioning, shutdown and turnaround, decommissioning, etc.)



Cairn Oil & Gas: Upstream Onshore : Gas Processing

**OWB**  
(Offshore Wind Business)

The Offshore Wind Business is a new vertical of L&T Energy's portfolio. Over the past 3 decades, L&T Energy has delivered vast and complex projects within stringent schedules and budgets across diverse geographies. L&T Power Transmission and Distribution has established credentials in the execution of substation projects. L&T Energy and L&T Power Transmission & Distribution have come together to leverage the synergy of experiences and capabilities to broaden its offerings for offshore wind projects.

Our strategic tie-ups with technology partners, OEMs, and prequalification by renowned developers across the globe, gives us an edge to a reliable and preferred partner.

With a commitment to excellence and a focus on offering innovative solutions, our Offshore Wind Business is poised to play a pivotal role in shaping the future of offshore wind energy.

**KEY OFFERINGS**

**Offshore Substations**

- HVDC Substation
- HVAC Substation

**Fixed Foundations**

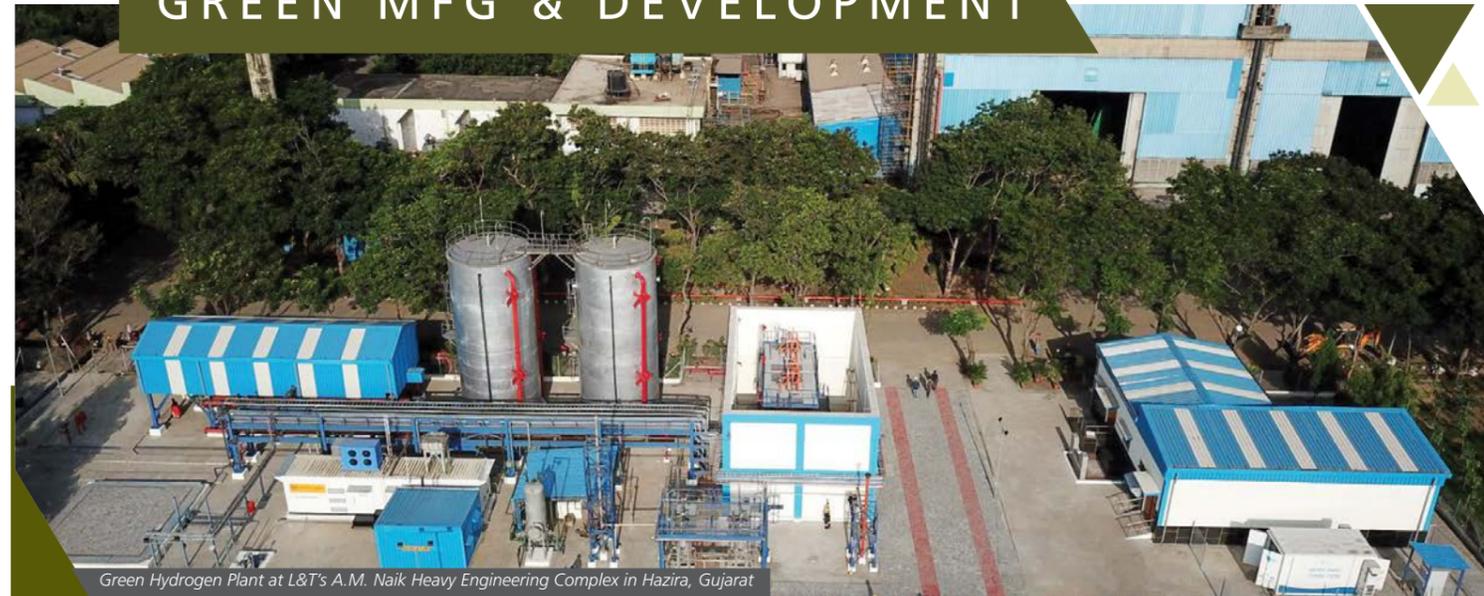
- Monopile and Transition piece
- Jacket with suction piles
- Jacket with pin piles

**Floater Foundation**



Offshore Substation Platform

**GREEN MFG & DEVELOPMENT**



Green Hydrogen Plant at L&T's A.M. Naik Heavy Engineering Complex in Hazira, Gujarat

L&T has been at the forefront of providing innovative and sustainable engineering solutions to the energy industry. With decades of experience in EPC and equipment manufacturing as its foundation, the Green Energy business is well positioned

to extend these offerings in the fast-evolving energy transition landscape and emerge as an industry major. The Company's vision encompasses the entire green energy value chain through its strategic business pillars.

**KEY BUSINESSES**

**Development & EPC Solutions:** Asset Development for Green Hydrogen and its derivatives | EPC Projects for Green Hydrogen and its derivatives | Carbon Capture Utilization and Storage

**Adjacencies:** Fuel Cells | Biofuels

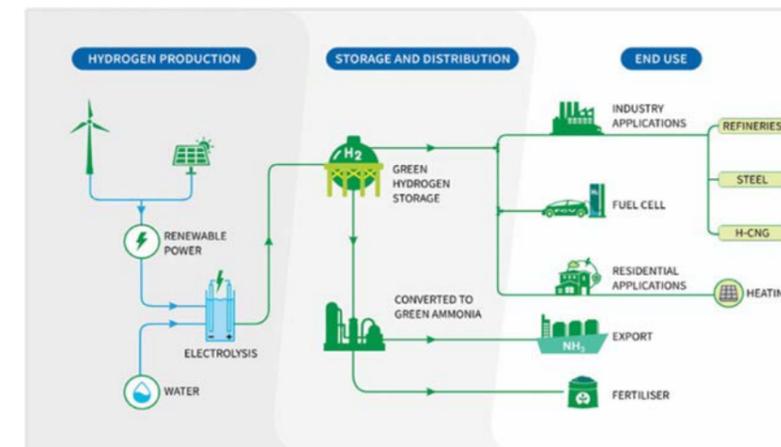
**Green Manufacturing:**

L&T's extensive experience in high-tech manufacturing, incorporating the highest quality materials and advanced manufacturing techniques, provide an edge for Electrolyser and Stationary Battery manufacturing. With the Technology License Agreement with McPhy Energy, a France-based leading electrolyser technology company, L&T intends to spearhead the production of cutting-edge electrolyser systems in India, and enable the widespread adoption of green hydrogen, revolutionizing the way energy is generated and stored.

A forward-thinking mindset ensures that these solutions are not only effective today but also future proof. Services beyond the manufacturing processes, such as comprehensive after-sales support, including installation, commissioning, and maintenance services ensure that efficiency and performance are maximized over the life cycle.

**EPC & Development:**

By leveraging the potential of green hydrogen, the EPC & Development vertical enables businesses to reduce their carbon footprint and embrace a greener future. From initial concept and design to final implementation, it offers end-to-end project management ensuring seamless integration and optimal project outcomes. With a strong ability to forge key partnerships and joint ventures with international players across the green energy value chain, the business will also offer customers a single point integrated solution for development projects on a build, own and operate (BOO) basis.



# POWER PLANTS & EQUIPMENT



2x660 MW Khargone Thermal Power Plant, Madhya Pradesh (India's first ultra-supercritical power plant)

A proven, complete solutions provider for thermal power plants, L&T's power business vertical executes coal and gas-based power projects on a lumpsum turnkey basis. At its state-of-the-art facilities at Hazira in Gujarat, L&T and its joint venture companies manufacture ultra-supercritical / supercritical boilers, turbines and generators, pulverisers, axial fans, air preheaters and air-pollution-control equipment.

L&T also supplies and supervises standalone HRSG packages. International standards of safety and quality and on-time delivery are ensured by design and project management centres at Vadodara and Faridabad.

## KEY OFFERINGS

**Complete and package-wise EPC solutions for Power Plants:** Coal-fired | Gas-based | Nuclear Steam Turbine & Generator Island

**Air pollution control:** Flue Gas Desulphurisation (FGD) | Selective Catalytic Reduction (SCR) | Electrostatic Precipitators

## KEY GEOGRAPHIES



## PROJECTS

New Contracts – 1  
Ongoing – 16

## TRACK RECORD

**19,000+ MW** EPC of power plants

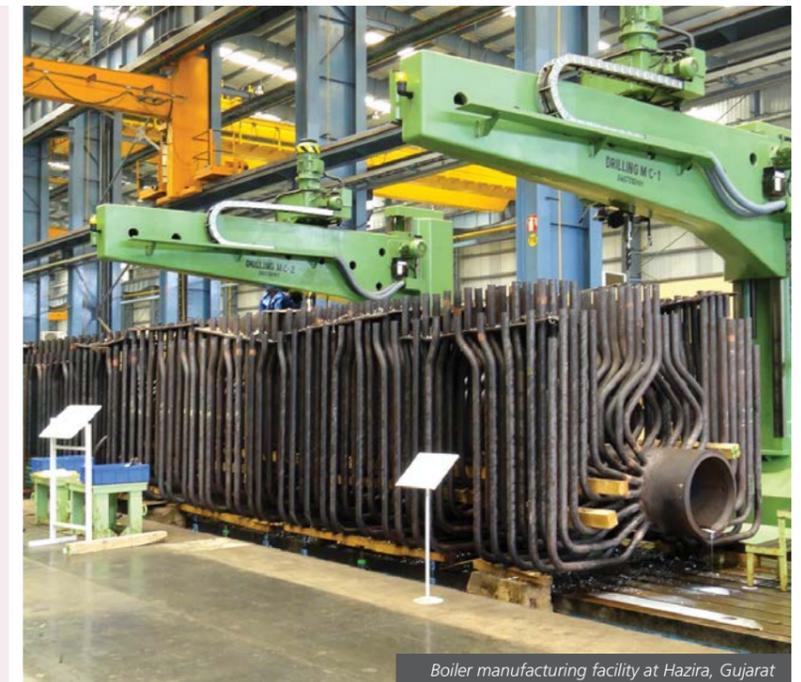
## PARTNERS

**L&T-MHI Power Boilers Private Limited**  
This JV with Mitsubishi Heavy Industries, Ltd., Japan engineers, designs, manufactures, erects and commissions ultra-supercritical and supercritical boilers.

**L&T-MHI Power Turbine Generators Private Limited**  
This JV with Mitsubishi Heavy Industries, Ltd., Japan and Mitsubishi Electric Corp. Japan, engineers, designs and manufactures ultra-supercritical and supercritical turbines and generators.

**L&T-Sargent & Lundy Limited**  
This JV with Sargent & Lundy L.L.C, USA, provides a complete range of engineering and design solutions for power plants.

**L&T Howden Private Limited**  
This JV with the Howden Group manufactures axial fans and air preheaters.



Boiler manufacturing facility at Hazira, Gujarat



Turbine manufacturing facility at Hazira, Gujarat

# HI-TECH MANUFACTURING

L&T has established a reputation for the manufacture of a wide range of high-end technology, engineered-to-order equipment and systems for core industrial sectors. In-house R&D, collaborations with international majors, a dedicated engineering talent pool, global procurement set-up and world-class manufacturing facilities have enabled L&T to acquire and sustain a leadership position in many of its lines of business. Global quality accreditations and certifications affirm L&T's manufacturing prowess.

## HEAVY ENGINEERING DEFENCE

Across the decades, L&T's state-of-the-art facilities have manufactured the tallest, largest, heaviest equipment, setting global benchmarks in scale and sophistication.



# HEAVY ENGINEERING



Vinyl Acetate Monomer Reactor for project in China

L&T Heavy Engineering a global leader in the supply of the engineered-to-order hi-tech equipment meeting the needs of Refinery, Oil & Gas, Fertilizer, Petrochemical and Nuclear Plants for reactors, special heat Exchangers, proprietary internals, special fabrication, and high-end metallurgy pipe spools. The business has been at the forefront of introducing digital Industry 4.0 techniques, products, and materials into the manufacturing sector for over eight decades. The dedicated engineering, procurement, project management and construction teams of our Modification, Revamp and Upgrade (MRU) business offer technology-driven, quick, value-added solutions for process plants.

A. M. Naik Heavy Engineering Complex at Hazira is a globally benchmarked state-of-the-art, fully integrated digitally enabled manufacturing complex. Its capability spectrum covers in-house engineering, R&D centres, and world-class fabrication facilities, spearheaded by a highly talented team, committed to a safe and sustainable work culture. The business achieved international recognition through an impeccable track record of executing large, complex projects and constantly creating new international benchmarks.

## KEY OFFERINGS

Ethylene oxide, Hydrocracker & clean fuel reactors | Renewable diesel reactor | FCC reactor and regenerator package | Coke drums | Molten salt-bath reactor system | Titanium-cladded oxidation reactor | Ammonia and methanol converters | Urea Reactor and stripper, carbamate condenser | Waste heat boiler package | HP heat exchanger | Nuclear power equipment: Steam Generator and Pressuriser, End Shields, Fusion Reactor (ITER), Spent Fuel Canisters & Casks | Modification, Revamp and Upgrade (MRU) | Critical Piping Spools



High-pressure Vessel for Oil & Gas Project in KSA



Equipment for HRRL Barmer refinery

## SNAPSHOT

### KEY GEOGRAPHIES



Exporting to **51** countries spread across all continents

Manufacturing Facilities **3**

### NEW ORDERS

**176**

### CRITICAL EQUIPMENT

**23** Reactors

**60** Heat exchangers

**38** Large Vessels and Columns

### NEW ORDERS

#### Modification, Revamp & Upgrade

- Awarded an important contract for UREA Revamp by a key Fertilizer sector customer in India on EPC basis.
- Awarded contract for FCC revamp in India and Replacement of Regenerator Top Head for key Oil & Gas customer in the Middle East.
- Awarded several Critical repair works involving emergency shutdown in Refineries and Fertilizer sector in India and Middle east.

#### Refinery & Petrochemical Sector

- Awarded orders for supply of critical Reactors and Vessels for blue ammonia projects in USA and Uzbekistan

- Awarded orders for Reactors and heaviest High-pressure Screw Plug Heat Exchangers for a refinery in Mexico
- Awarded an order for World's Heaviest Coke drums for a refinery in Mexico
- Awarded order for 2 nos of World's largest BASF design EO reactors for their project in China
- Awarded order for critical Residue Upgrading Reactors and High-pressure Screw Plug Heat Exchangers for IOCL's Panipat Refinery Expansion Project
- Awarded a Reactor package for a PDH project in India.

#### Nuclear Power sector

- Awarded orders for Steam Generators, End Shields, and Calandria in fleet mode by NPCIL.



## AWARDS & RECOGNITION

- 47<sup>th</sup> International Convention on Quality Control Circles (ICQCC)-2022 (1- Gold & 3- Silver)
- National Awards for Manufacturing Competitiveness (NAMC)-2022 (1- Gold for Hazira and 1- Gold for Ranoli)
- 9<sup>th</sup> FICCI Quality Systems Excellence Awards for Industry-2021 (Platinum Award)



## TRACK RECORD

**121 m**

World's longest column for Reliance Industries, India

**2313 MT**

World's heaviest LC-Max Reactors for HPCL

**658 MT each**

World's Heaviest Coke Drums for PEMEX, Mexico (6 drums)

**36 months**

Global Benchmark : Manufactured Nuclear Steam Generator for NPCIL

**USD 412 Mn.**

World's single largest order of reactors for KNPC, Kuwait

**16.3 m Diameter**

Largest RFCC package for Reliance Industries, India

**1500 MT**

World's largest tubular reactor for Equate, Kuwait

**29.4 m Diameter**

The Cryostat, world's largest stainless-steel, high-vacuum pressure chamber weighing 3,850 MT for ITER, France



Onsite assembly of a Critical Tubular Reactor System for IOCL's Petrochemical Project in Dumad, Gujarat



Critical PTA Heat exchanger for Petrochemical project in Turkey

# L&T SPECIAL STEELS & HEAVY FORGINGS



L&T's Steel Melting & Heavy Forge Shop at Hazira, Gujarat

L&T Special Steels and Heavy Forgings is a JV with NPCIL, and manufactures Heavy Forgings for Nuclear, Strategic, Hydrocarbon and Power sectors.

Setting up of the facility is a major step towards creating a sustainable alternative to the import of heavy forgings for the Nuclear and Strategic sectors.

## KEY OFFERINGS

Custom-built heavy forgings and thick plates in carbon steels, alloy steels, stainless steel and Titanium.

### SNAPSHOT

NEW ORDERS **82**

TONNAGE  
**10000 MT**

FORGINGS FOR STRATEGIC SECTOR  
**517 mm Thk**

PRESSURE VESSEL FORGINGS  
**400 mm Thk**

TITANIUM FORGING FOR DEEP OCEAN MISSION  
**125 mm Thk**

### TRACK RECORD

#### SECTORS SERVED

Strategic | Nuclear | Hydrocarbon | Oil & Gas | Steel | Cement & Mining | Power | Deep Ocean Mission

#### 700 MW

Nuclear Power Plants - Critical Heavy Forgings and Plates for Steam Generator and other equipment

#### STRATEGIC SECTOR

Certified Manufacturer in India Bulk Production Orders

#### 900 mm Thk

Forgings for International Thermonuclear Experimental Reactor (ITER)

#### 210 Tonnes

Heaviest Ingot made in India

#### 75 Tonnes

Hydrocarbon Sector Heaviest Forged Shell made in India

#### 60+ Steel Grades

### AWARDS & RECOGNITION

National Safety Award for Excellent performance in Industrial Safety From Ministry of Labour and Employment

Sustainability Award for category 'Major Re-Rolling and Forging Unit' from Indian Institute of Metals

# DEFENCE



K9 Vajra-T Self-propelled Howitzer at Republic Day Parade rehearsal in New Delhi

L&T partners with DRDO and the Indian Armed Forces in the development of defence products, systems and platforms across land, sea and air operations, in line with its commitment to 'Make in India'. The Company has state-of-the-art facilities for manufacturing Weapon Delivery systems and engineering systems, aerospace solutions and naval platforms, helping the Armed Forces gain the decisive edge.

## DEFENCE & AEROSPACE

## DEFENCE SHIPBUILDING

L&T provides indigenous design-to-delivery solutions – from surveillance to capability to strike. Its aerospace offerings add thrust to India's space programme.

## DEFENCE & AEROSPACE

L&T's defence solutions encompass land-based weapon delivery systems, air defence and artillery systems and upgrades, naval weapon launch systems with fire-control systems, combat engineering systems, communication, avionics, C4I and missile systems. L&T designs and builds critical aerospace components, tracking and launch systems for space missions.

### KEY OFFERINGS

Guns and Armoured Systems | Missiles and Aerospace Systems | Avionics, Sensors and Robotics | Submarines and Underwater Platforms | Weapon Delivery and Engineering Systems | Unmanned Systems | Radar Systems

WORK CENTRES IN INDIA **5**

### KEY GEOGRAPHIES



L&T develops and provides critical components and systems for India's Space Programme - including missions to the moon, Mars and beyond



Close-in Warfare Systems



Modular Bridging Systems

## DEFENCE SHIPBUILDING

L&T offers a range of ocean-going vessels for defence, including frontline warships, submarines, auxiliary vessels, high-speed boats and special naval platforms.

L&T delivered more than 67 vessels to the Indian Navy, Indian Coast Guard and friendly nations till date – no Defence, no foreign.

L&T's Warship Design Centre, equipped with state-of-the-art software and associated tools, undertakes high-end, in-house design from the concept phase to the production phase. L&T also undertakes refits of Indian and foreign naval platforms.

L&T also designs and manufactures critical ship systems. Through-life support and obsolescence management offered by L&T extend the operational life of platforms.

### KEY OFFERINGS

Ocean-going vessels for defence, including : Frontline Warships | Submarines | Auxiliary Vessels | Special Naval Platforms

### FACILITIES

Greenfield shipyard at Kattupalli, Chennai

### MAJOR ORDERS UNDER EXECUTION FOR THE INDIAN NAVY

2 Multi-Purpose Vessels  
3 Cadet Training Ships



Offshore Patrol Vessel

# SERVICES

Larsen & Toubro has over three decades of experience in the service sector, offering solutions, including technology-based ones, in several vital areas. Its smart world and communication services help to protect citizens from natural calamities and crime, and assist the military. Setting the gold standard in the sector, L&T's realty business undertakes timely delivery of prime commercial and residential spaces. L&T's information technology solutions comprise cutting-edge solutions at the convergence of the physical and digital worlds. The Company's technology services cover a wide spectrum of ER&D solutions for global clients, enhancing efficiency and cost-effectiveness. They also help protect citizens from natural calamities and crime, and assist the military. L&T's financial services business offers a wide range of both lending and non-lending-based financial products, benefitting over 15 million customers.



## IT SERVICES

## TECHNOLOGY SERVICES

## FINANCIAL SERVICES

## DIGITAL SERVICES & E-COMMERCE PLATFORMS

L&T's service offerings are built on the core values of commitment and transparency, coupled with a customer-first approach, delivering customer delight across the globe.





LTIMindtree, Mahape

LTIMindtree is a leading global technology consulting and digital solutions company that empowers enterprises across various industries to reimagine their business models, accelerate innovation, and maximize growth through the effective utilization of digital technologies.

With a strong presence in over 35 countries and a workforce of nearly 84,000+ talented and entrepreneurial professionals, LTIMindtree combines the industry-acclaimed strengths of two highly successful companies, Larsen & Toubro Infotech and Mindtree. As a part of the esteemed Larsen & Toubro Group, LTIMindtree possesses a unique blend of engineering DNA and experience DNA, that assists businesses in transforming their

operations from core to experience, ensuring their success in the marketplace of the future. Being a prominent player in the field of digital transformation, our primary objective is to assist enterprises in fully utilizing the potential of technology and embracing reinvention, thereby enabling them to reach their future goals swiftly and efficiently.

With the merger of LTI and Mindtree, LTIMindtree is proud to have entered the elite league of top-tiered IT services companies. The Company will continue to invest in innovative solutions that would enable it to stay ahead of the curve in the IT services industry and remain committed to building a bigger, brighter, bolder future for the stakeholders.

## DELIVERING INNOVATIVE DIGITAL SOLUTIONS:

**Customer Success:** We have a large team of domain-specific digital experts, and we use industry best practices for automation, AI, Augmented Reality (AR)/Virtual Reality (VR)/Mixed Reality (MR), API, and microservices to create highly differentiated experiences at non-linear costs.

**Cybersecurity:** Our focus is on enabling our clients to go beyond 'Security for Compliance' to 'Security for Cyber Defense Resiliency.' We follow a Managed Cyber Defense Resiliency Services (MCDR) approach.

**Data and Analytics:** Our innovation-led value realization approach, product-led monetization, and solutions cater to leading companies in each industry segment, as recognized by leading sector analysts.

**Digital Engineering:** We assist customers in conceiving, designing, and developing cutting-edge digital products that offer a seamless customer experience.

**Cloud and Digital Infrastructure:** With our consultative approach, automation capabilities, and advanced digital platforms and frameworks, we deliver technology enablement, intent-driven IT, tool-based service delivery, and operational excellence to the IT infrastructure needs of 50+ Fortune-100 enterprises.

**Quality Engineering – Testing:** We harness Automation, Performance, DevOps practices, Cloud, Mobile, and Advanced Data Analytics, aided with a consultative approach, enabling enterprises in their digital transformation journey.

**Connected Universe – NxT:** We configure IoT-enabled and AI-powered solutions that revolutionize asset utilization, infrastructure management, locational intelligence, and workforce optimization for a diverse range of industrial organizations.

**Platform Operations:** Our Platform Operations offering simplifies and optimizes the handoff process between IT and operations for enterprises.

**NxT Geospatial Engineering:** We offer a comprehensive portfolio of location-intelligent products and solutions that cater to the needs of business requirements across industrial sectors. Geospatial data ranges from high-definition 3D scanning-based data

collection to integrating multiple enterprise systems to create an integrated ecosystem with rich and robust map interfaces.

**Enterprise Cloud Applications:** We provide Disruptive Software as a Service (D-SaaS) through a group of niche and powerful cloud SaaS platform products that solve challenges in the areas of Lead to Revenue (Quote to Cash), Supply Chain, Source to Pay, and Connected Planning.

## PROVEN PLATFORMS

Fosfor | LTIMindtree Infinity | LTIMindtree Canvas | LTIMindtree NxT

## KEY PARTNERSHIPS

SAP, Oracle, Microsoft, Salesforce, AWS, Google Cloud, IBM, Pega, ServiceNow, Snowflake, Temenos, Adobe, Duck Creek Technologies.

## KEY GEOGRAPHIES



## TRACK RECORD

**6th** Largest India IT Player

**84,000+**

Employees Working out of 66 Delivery Centers

**700+** Clients

**70** Sales Offices across **35** Countries across 5 continents in the US, EMEA & APAC



## AWARDS & RECOGNITION

- Recognized as the Fastest Growing Indian IT brand in 2023 by Brand Finance.
- Included in the NIFTY 50 Index.
- Certified as a Great Place to Work® in India for the second consecutive year for building a High-Trust, High-Performance Culture™.
- Recognized as Great Place to Work Certified in Poland.
- Recognized among Top 5 Most Innovative Practices in the 'Women L&D Programs' and the Top 20 Most Innovative Practices in the 'Women Returnee Programs' categories at DivHERSity Awards 2023.
- Named by Great Place to Work® Institute as one of India's Best Workplaces™ for Women for the second consecutive year.
- LTIMindtree's Canvas named winner in the 2023 Artificial Intelligence Excellence Awards.
- Named 'Leader' and 'Star Performer' in Everest Group's Application and Digital Services in P&C Insurance PEAK Matrix Assessment 2023.
- Recognized in 2022 Gartner® Magic Quadrant™ for SAP S/4HANA Application Services, worldwide.
- LTIMindtree recognized in The Forrester Customer Analytics Services Providers Landscape, Q1 2023.
- LTIMindtree recognized in The Forrester Salesforce Consulting Services Providers Landscape, Q1 2023.

# TECHNOLOGY SERVICES

## L&T TECHNOLOGY SERVICES LIMITED



LTTS' EV charging set up in Vadodra combining electric technologies, solar panels, inverter, storage battery, chargers and integrated hydrogen fuel cells

**L&T Technology Services Limited (LTTS)** is a leading global pure-play Digital Engineering Research and Development (ER&D) services provider. The Company delivers consultancy, design, development, and testing services and solutions, including, software and digital engineering, embedded systems, engineering analytics, and plant engineering. Its customer base includes 69 Fortune 500 companies and 57 of the world's top ER&D companies across transportation, telecom & hi-tech, plant engineering, industrial products, and medical devices.

Its engineers and technologists collaborate with leading global firms to drive smart solutions and services for new product development, facilitate remote asset management, and enable

virtual product design and prototyping. LTTS has aligned its focus on six strategic and new age technology areas – Electric Autonomous Connected Vehicles (EACV), NexGen Comms, AI & Digital Products, Digital Manufacturing, MedTech, and Sustainability.

LTTS has over 22,200 employees spread across 22 global design centres, 28 global sales offices, and 99 innovation labs as of March 31, 2023.

In January 2023, LTTS announced the acquisition of L&T's Smart World and Communication (SWC) Business Unit. The acquisition, its largest to date (closed on April 1, 2023) is expected to drive new growth paradigms across NexGen Comms, Sustainable and Smart World, and Cybersecurity.

### KEY GROWTH DRIVERS

LTTS has its offerings, capabilities, and investment pathways to support customers in the evolving global ecosystem. These offerings include:

**Electric Autonomous Connected Vehicles (EACV):** LTTS continues to witness significant traction and marquee deal wins in the EACV space as the world moves increasingly towards large scale vehicle electrification, autonomy, and connectivity,

**NexGen Comms:** As an early-entrant in the telecom field, LTTS is leveraging its comprehensive chip-to-cloud capabilities to drive next gen communication journeys for global telcos and enterprise users across geographies.

**AI and Digital Products:** Leveraging the emerging dynamics of the worldwide connected and smart products ecosystem, LTTS is helping drive deep transformation journeys across the AI and Digital Products landscape for its global customers.

**Digital Manufacturing:** With global manufacturers looking at new ways to improve efficiency, reduce costs, and increase flexibility, LTTS is helping customers drive enhanced operational paradigms and unlock new value streams across the manufacturing ecosystem.

**MedTech:** Working with the top 10 global healthcare companies, LTTS provides a host of offerings across emerging technologies like IoMT, IIoT, AI, Robotics, and AR/VR to help customers tap into new value streams. As global medical data volumes continue to grow, our global team of engineers are leveraging technology to automate and streamline data extraction, management, and value creation.

**Sustainability:** LTTS is helping customers drive sustainability across the use of renewable energy, water conservation measures, reducing carbon emissions, and developing Net Zero Products. The Company is also committed to achieving water and carbon neutrality in its operations.

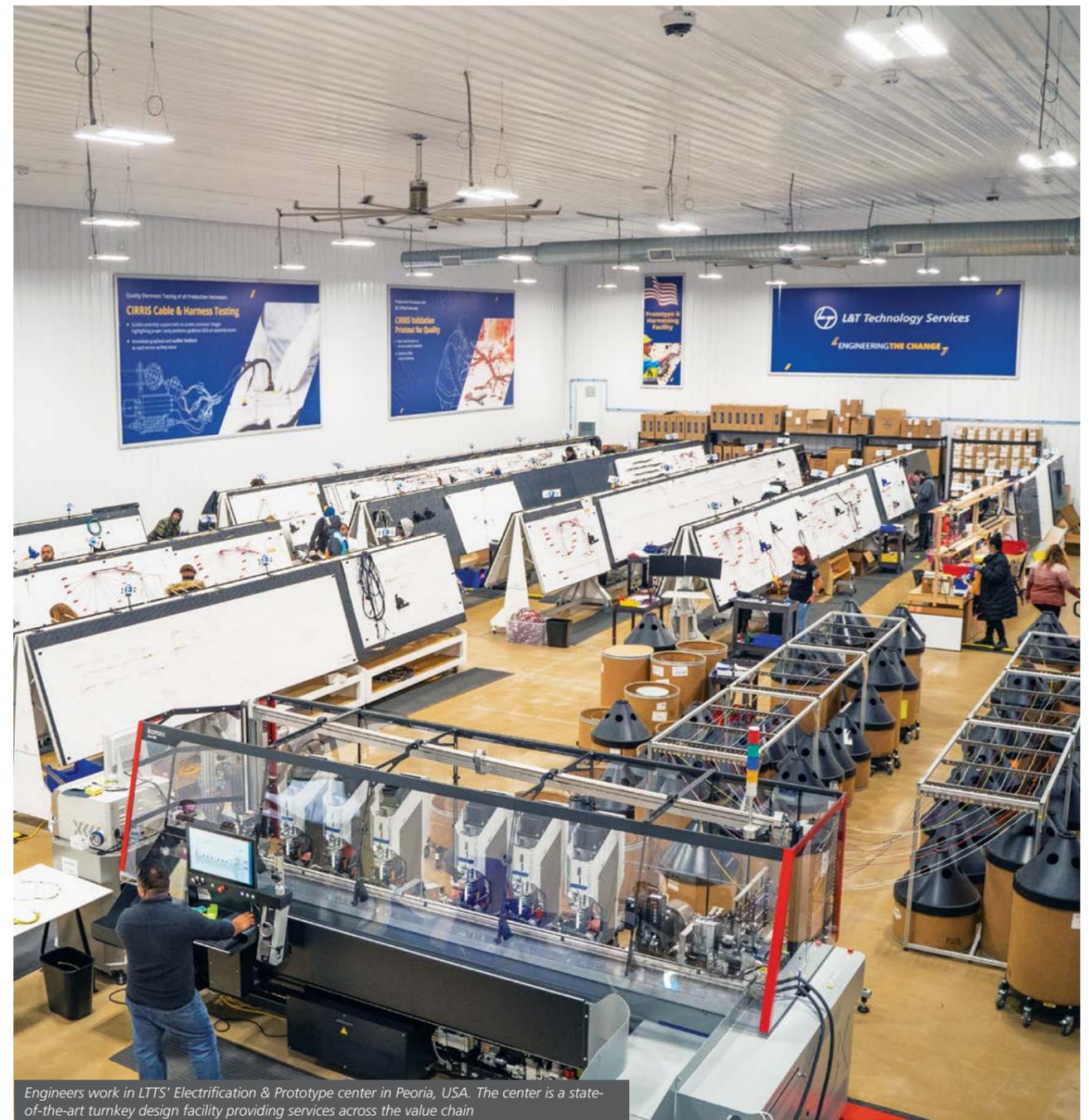
### TRACK RECORD

**69** Fortune 500 customers

**99** Global Innovation Centres

**90%** Repeat business from customers over the last 4 years

### KEY GEOGRAPHIES



Engineers work in LTTS' Electrification & Prototype center in Peoria, USA. The center is a state-of-the-art turnkey design facility providing services across the value chain

# DIGITAL SERVICES & E-COMMERCE PLATFORMS

## L&T-SuFin

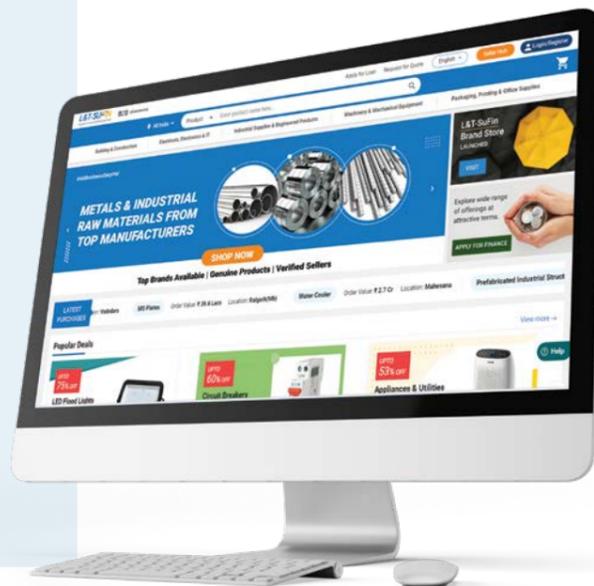
**L&T-SuFin (Supply Chain and Finance)** is India's first integrated digital B2B marketplace for buying and selling of industrial and construction products and services. The platform is poised to transform the B2B marketplace by enabling businesses, especially MSMEs, to source their industrial suppliers pan-India, digitally and cost-effectively. Active participation and partnership with key industry and MSME associations is enhancing the platform's visibility in target markets and positioning it as a one-stop solution for supply-chain in the MSME segment.

### KEY OFFERINGS

Efficient product and seller discovery | Online transaction facility | Financing support from partner banks & NBFCs | Logistical support, including free transit insurance

### SNAPSHOT

<b>36,000+</b> Sellers	<b>3,00,000+</b> Products
<b>30,000+</b> Buyers	<b>16+</b> Logistics Partners
<b>50+</b> Product Categories (predominantly industrial and construction)	<b>10+</b> Financing Partners
<b>3,500+</b> Distinct Items	<b>19,100+</b> Pin codes Logistics Serviceability



## L&T EduTech

In a rapidly changing tech landscape, the employability of STEM and non-STEM graduates across the globe has been a topic of concern due to a significant skills gap. To address this pressing issue, L&T EduTech has emerged as a solution-driven business that aims to bridge the skills gap by effectively integrating academia with industry.

EduTech empowers learners with a dynamic blend of theory and practice for enhanced employability. Backed by the powerhouse of knowledge and innovation, L&T and its group companies, including Larsen & Toubro, LTIMindtree, L&T Technology Services and L&T Financial Services, EduTech offers diverse learning and assessment solutions in engineering and technology, IT services, emerging technologies, and financial services. EduTech ensures that the experiential learning provided always meets the diverse needs of its learners and is relevant, practical, and aligned with the rapid transformations in the industry. The robust Learning Management System (LMS), Assessment Engine, Recruitment Automation and Skill Exchange platforms form its backbone, facilitating an enriching learning journey for individuals in Enterprise and Academia.



## LEARNING AND ASSESSMENT SOLUTIONS

**Learning Solutions:** L&T EduTech offers a wide range of domain and role-based skill development programmes. These are designed to emphasise essential skills in various industry domains, including Information Technology, Construction, Manufacturing, Power, Automobile, Electronics, BFSI and others. These programmes integrate domain expertise, 21<sup>st</sup>-century skills, life skills, and behaviour for a complete and holistic learning experience. They combine self-paced learning, instructor-led training, virtual labs, real-world projects, and assessments to boost the skills of students and professionals.

**Assessment Solutions:** With its wide range of comprehensive tools in assessments, EduTech offers hiring assessments, proficiency tests, technical hackathons, university exams and skill assessments. These help individuals gauge their competencies, identify improvement areas and enable personalised learning. Enterprises can assess hiring and workplace competency across different stages of their employees' professional journeys. Academia can conduct its university examinations, selection tests and other student assessments. EduTech's assessment solutions cover domain, language, cognitive and behavioural skills.

specialisation stacks, certification courses and Centre of Excellence programmes. It also provides a range of value-added services to academia in thought leadership, faculty empowerment, industry immersion, research support, industry integration, co-branding opportunities, microlearning programmes and industry connection through the Skill Exchange platform.

**Enterprise:** EduTech offers various customised solutions to enterprises catering to their Talent Hiring and Transformation requirements. They include Learning Before Joining programmes, Hire-Train-Deploy model, Hiring & Skill Assessments, Role-Based Skilling programmes, Boot Camps and career accelerator initiatives which effectively address enterprises' needs for hiring, upskilling, and reskilling. Enterprises are also offered value added services including a customised Learning Management System, seamless third-party content integration and access to Skill Exchange, that connects talent from academia to the specific demands of the industry.

## ENGAGEMENT MODELS

**Higher Education:** With active collaborations with Higher Educational Institutions, EduTech provides integrated degree programmes, industry specific job-oriented employability skilling programmes and other customised institution specific learning programmes that include industry-

### TRACK RECORD

<b>29,230</b> Learners	<b>144,085</b> Assessments Delivered
<b>45</b> Academic Partnerships	<b>100</b> Enterprise Partnerships

## DATA CENTERS

**L&T's Data Center & Cloud Services business** provides end-to-end Data Center, Multi-Cloud services, Cloud Managed services, Security Services and Application Integration services with single-point responsibility. L&T has committed investments to set up the most modern state-of-the-art Hyperscale Data Centers at multiple locations in India, starting with Mumbai and Chennai.

### CUSTOMERS ONBOARDED

Education | Media | Pharma | Web Hosting | ISP

### KEY OFFERINGS

<b>Colocation</b> <ul style="list-style-type: none"> <li>• Rack Space, Power &amp; Cooling</li> <li>• Remote / Smart Hands</li> <li>• Ancillary Services</li> </ul>	<b>Network &amp; Security</b> <ul style="list-style-type: none"> <li>• SOC Services</li> <li>• Firewall</li> <li>• DDoS</li> <li>• Endpoint Security</li> </ul>	<b>Managed Services</b> <ul style="list-style-type: none"> <li>• OS Management</li> <li>• DB Management</li> <li>• Middleware Management</li> <li>• IaaS Network Management</li> <li>• Storage &amp; Back-up Management</li> <li>• Disaster Recovery Management</li> </ul>
<b>Cloud</b> <ul style="list-style-type: none"> <li>• Enterprise Public Cloud</li> <li>• Private Cloud</li> <li>• Hybrid Cloud Management</li> <li>• Cloud Managed Services</li> </ul>		

## HYPERSCALE ROADMAP

Name	Location	Racks	Avg. Rack Density	IT Load	Tier	Indicative Timeline
LNT NMP 1	Panvel, Navi Mumbai	285	7.5 kW	2 MW	Tier 3+	2023
LNT CHN 1 HYPERSCALE	Kanchipuram, Chennai	3000	10-15 kW	30 MW	Tier 3+	2023
LNT NMP 2 HYPERSCALE	Panvel, Navi Mumbai	3000	10-15 kW	30 MW	Tier 3+	In Design & Statutory Approval Stage

# FINANCIAL SERVICES L&T FINANCE HOLDINGS LIMITED (LTFH)



Farm Finance

L&T Finance Holdings Limited (LTFH), a leading Non-Banking Financial Company (NBFC), offers a range of financial products and services through its subsidiary L&T Finance Ltd. (LTF) under the L&T Finance brand. Headquartered in Mumbai, the Company has been rated AAA — the highest credit rating for NBFCs — by four leading rating agencies. It has also received leadership scores and ratings by global and national Environmental, Social and Governance (ESG) rating providers for its sustainability performance. The Company has also won many prestigious awards for its flagship CSR project, 'Digital Sakhi', which focuses on women empowerment and digital and financial inclusion.

The Company's focus on engaging in the 'right businesses' has helped it become one of the leading financiers in key retail products. LTF is focused on becoming a top-class, digitally enabled retail finance company by moving the emphasis from product focus to customer focus and establishing a robust retail portfolio with quality assets. The aim is to create a Fintech@Scale while keeping ESG at the core. The Company has a database of over 2.1 crore customers, which is being leveraged to cross-sell, up-sell as well as identify new customers.



Two Wheeler Loans



Micro Finance

## Vision

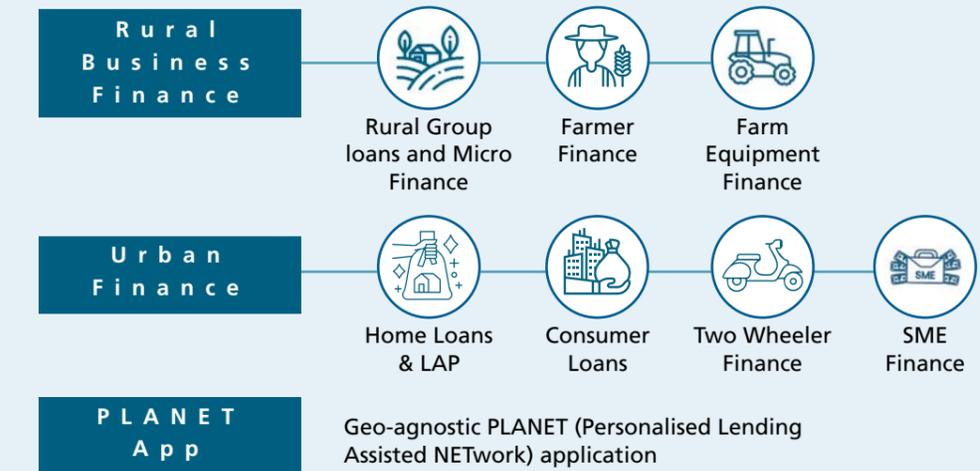
To be an admired and inspirational financial institution, creating sustainable value for all stakeholders

## Lakshya 2026 goals

To be a top-class, digitally-enabled, retail finance company moving from a 'product-focused' to a 'customer-focused' approach.

- Retailization > 80% Retail growth > 25% CAGR
- Asset Quality - GS3 <3% and NS3 <1% • Retail RoA 2.8 – 3%

## KEY OFFERINGS



## SNAPSHOT

**28,000+** Partner Touchpoints

**21,000,000+** Customers

**20** States **2** Union Territories  
(100+ Cities / Towns, ~2,00,000 villages)

**27,908** Employees

## ESG RANKINGS

LTFH is making its mark as a responsible corporate citizen. The Company raised Social / Sustainability Linked Rupee Loan of ₹ 585 Crore in FY23, up 193 percent as against Rs. 200 crore in FY22.

The Company received a CDP score of 'B' in 2022, a significant improvement from its previous score of 'D'; signifying that the Company is taking coordinated action on climate issues. It also retained Constituent of the FTSE4Good Index Series.

In the last fiscal, LTFH has been honoured with numerous prestigious awards like Business Sustainability award for Governance by Dun & Bradstreet India and have been named as ESG Champions of India 2023 in Dun & Bradstreet exclusive report.

and Digital Financial Literacy (DFL) in their communities. Since its inception in 2017, Digital Sakhi projects have created a cadre of 1,370 Digital Sakhis across 900+ villages who have helped upskill over 11,000 women entrepreneurs.

In FY23 alone, Digital Sakhis trained and empowered more than 11 Lakh people across 4 states on Digital Financial Literacy.

Other initiatives like planting 50,000 plus saplings under the Project Prakruti, capacity building of water user groups, and healthcare is making significant impact on the lives of thousands of beneficiaries and the society we live in.

## Achievements – as of Q1FY24

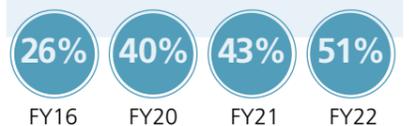
- Retailization 82%, Retail growth 34 % YOY
- Asset Quality - GS3 3.21% and NS3 0.70%
- Retail RoA 3.8%
- PLANET App crossed 3.9 million downloads

In addition, the Company has received appreciation for Integrated Reporting in Service Sector Category by ICAI Sustainability Reporting Awards 2021-22, Certificate of Appreciation by ICC Environment Excellence Awards 2022 and have been featured in the 'List of Entities making a positive impact on environment' by SABERA.

The flagship Corporate Social Responsibility (CSR) project of the Company – 'Digital Sakhi' women, who in turn promote women entrepreneurship

## RETALISATION

Continues to deliver on the retailisation strategy



# OTHERS



**REALTY**

**CONSTRUCTION &  
MINING MACHINERY**

**RUBBER  
PROCESSING  
MACHINERY**

**VALVES**

L&T's other service and engineering businesses meet vital needs and are committed to excellence in terms of quality and timely delivery.





West Square, Seawoods

Artist's Impression

L&T Realty specialises in the execution of large residential, mixed-use, and transit-oriented developments. Today, after a decade in the real estate business, it is one of the most trusted brands and is respected for its customer centricity and efficient design.

The true reflection of consumer focus comes from insight driven master planning and product development. The business derives its competitive advantage from transparency,

cutting-edge technologies, and superior project management skills – to create landmarks that meet global standards. Amongst the 120 plus awards and accolades, L&T Realty was conferred the 'Best Real Estate Award' at the Business Brands Award – Real Estate '2022.

## KEY OFFERINGS

Mixed-use Integrated Developments | Transit-oriented Developments | Residential Complexes | Commercial and Retail Spaces | Built-to-suit Projects

## KEY CLIENTS

JPMC, Colgate, Sanofi, WeWork, Ansell, Henkel Teva Pharma, Koch Industries, Tibco, SBI Life, Yamaha Motors, CitiusTech and many more...

## DEVELOPMENT PORTFOLIO

**75 Mn. sq.ft.** Total Development  
**35 Mn. sq.ft.** Residential  
**45 Mn. sq.ft.** Commercial & Retail  
**8.5 Mn. sq.ft.** Residential Delivered

## PROJECTS

**51,000** Apartments  
**3,25,000** Office Desks  
**1,05,00,000 sq.ft.** Specialised Luxury Retail

## KEY GEOGRAPHIES



Artist's Impression

Elixir Reserve, Powai



### TRACK RECORD

**13+** Large, Gated and Mixed-use Developments

**120+** Domestic and International Awards

**10,000+** Slum-dwellers rehoused

**17,000** Happy Families



### KEY AWARDS & RECOGNITION

- Best Real Estate Award - Business Brands Award – Real Estate, 2022.
- Best Realty Brand – Economic Times, 2021
- Business Excellence in Real Estate – CNN News 18, 2020
- Most Trusted Brand – Hindustan Times, 2020



# CONSTRUCTION & MINING MACHINERY



Komatsu D475A Crawler Dozer

As a pioneer in the Indian Construction & Mining Machinery, L&T has made a significant contribution for over 75 years to the industry. L&T supplies diversified construction and mining equipment from its principals of repute to the Infrastructure,

Irrigation and Mining Sectors. Its comprehensive range of high-quality and reliable products and after-sales service matches global performance standards.

## PRODUCT DEVELOPMENT CENTRE

PDC, located at Coimbatore, is an inhouse R&D centre employing design engineers with know-how and expertise in design and development of a range of products with innovative technology and rapid prototyping. PDC has developed many cost-effective products / solutions, contributing significantly to the Government's Atmanirbhar Bharat initiative.

## SUBSIDIARY COMPANY

L&T Construction Equipment Limited (LTCEL) is a wholly-owned subsidiary of L&T. It manufactures indigenously-designed construction and road equipment such as Wheel Loaders and Vibratory Compactors, as well as high-precision Hydraulic Systems and Components at its factory near Bengaluru.

## PRODUCTS MARKETED FOR

Komatsu – India and Global

L&T Construction Equipment Limited – Bengaluru

Larsen & Toubro Limited - Kansbahal/Odisha

**Product Range:** Hydraulic Excavators | Rear Dump Trucks | Crawler Dozers | Wheel Loaders | Wheel Dozers | Motor Graders | Vibratory Compactors – Soil & Asphalt | Pneumatic Tyred Rollers | Skid Steer Loader | Surface Miners | Sand Plants | Crushing Solutions

**Special Attachments:** Rock Breakers & Breaker Booms | Crusher Buckets | Slope Compactors | Rock Splitters | Quick Couplers | Piling Products

## SIGNIFICANT ORDERS

35 units of Komatsu Mining machines with 10-year service and parts contract from a leading private steel producer

240 units of Komatsu Mining machines supplied including 1000th HD785 Dump Truck, a flagship product

141 units of the newly-launched 20 Ton Komatsu PC205-10M0 Hydraulic Excavator sold to Construction Industry

150 units of Komatsu D85 Crawler Dozers sold – making it the market leader

6 units of KSM 403 L&T Surface Miners with 2-year maintenance and repair contract for a coal company

70 L&T 9020 Wheel Loaders for Border Roads Organisation

30 Indigenously-designed L&T 2490 Pneumatic Tyred Rollers sold

## SIGNIFICANT DEVELOPMENTS

Launched Komatsu's biodiesel compatible and innovative models – PC205-10M0 and PC500LC-10R

Introduced the upgraded small-size PC81 Hydraulic Excavator

New benchmarks created in the Mining Industry with Komatsu PC2000 Hydraulic Excavator crossing 69,000 hours of operation, HD785 Dump Truck - 65,000 hours, WA900 Wheel Loader - 55,000 hours and D475 Crawler Dozer - 43,000 hours

Launched the next-gen Komatsu GD535-6 Motor Grader, a CEV Stage-V emission compliant machine

Digitalization efforts ramped up by implementing S360 (Swift Service 360) Field Service Management project

An all-women team trained by L&T commissioned the HEMM (Heavy Earth Moving Machinery) in the iron ore mines, eastern region

## TRACK RECORD

Over **75 years** of experience in the industry

**Wide range** of models offered in each product category

**6** Service Centres across India for repairing / refurbishment of machines

Over **40,000** machines active in the market



Komatsu PC500-10R Hydraulic Excavator



Komatsu PC205-10M0 Hydraulic Excavator



Komatsu GD535-6 Motor Grader



Komatsu HD785 Dump Truck

# RUBBER PROCESSING MACHINERY



Off-The-Road Mechanical Tyre Curing Press



Truck Bus Hydraulic Tyre Curing Press

L&T is a global major, providing end-to-end rubber processing machinery solutions to the tyre and rubber industry. It markets its own products that are manufactured at its plant in Kancheepuram, near Chennai as well as certain products manufactured by Kobelco Industrial Machinery India Pvt. Ltd.

## KEY OFFERINGS

- Mechanical Tyre Curing Presses
- Hydraulic Tyre Curing Presses
- Tyre Building Machines
- Tyre Plant Solutions – Built-to-print / Custom-built Machinery
- Internal Mixers
- Twin-Screw Roller-head Extruders



## TRACK RECORD

- Supplies to **45+** Countries
- 5,000+** Machines
- Top **7** Global tyre manufacturers as clients

## SNAPSHOT

- Years of Experience – 51
- Distinct Product Segments – 4



## KEY ACHIEVEMENTS

- L&T Rubber Processing Machinery is amongst the Global Top 3 Tyre Curing Machinery Manufacturers
- #1 OTR Tyre Curing Machinery Manufacturer in the world
- EU Patent granted for Non-Rotating Innovative Post Curing Inflator for Passenger car Hydraulic Tyre Curing Press
- Leading Hydraulic Tyre Curing Press Manufacturer in the world for Passenger Car and Truck and Bus segments
- Commissioned New Manufacturing Bay for New Generation Hydraulic Tyre Curing Presses

# VALVES

L&T Valves Limited, a wholly-owned subsidiary of L&T, is a leader in flow-control solutions. Leveraging its global manufacturing footprint and a heritage for excellence that spans six decades, the Company offers unmatched customer satisfaction. The portfolio includes products monogrammed API 600, API 594, API 6D, API 609 and API 603, valves with CE, ATEX and SIL certifications, as well as IoT-ready digital solutions. Its marketing network spans the globe, reinforced by strategic alliances with key distributors.

## KEY OFFERINGS

- Gate, Globe and Check Valves | Pipeline & Process Ball Valves
- Triple-offset & Elastomer-lined Butterfly Valves
- SIL3-capable Automation Solutions including HIPPS
- Digital Products & Solutions | Aftermarket Solutions
- Knowledge-sharing Programmes



Titanium Valves for Petrochemical Plants



Axial Flow Check Valve



Cryogenic Valves for LNG and Hydrogen

## SECTORS SERVED

- Oil & Gas | Pipelines | Refining | Petrochemicals | Chemicals | Fertiliser | Pharmaceuticals | Power | Water | Defence | Nuclear | Aerospace

## GLOBAL MANUFACTURING FOOTPRINT



## TRACK RECORD

- Approved and accepted by global majors in the oil, gas and power sectors
- Celebrating **61 years** of excellence
- Valves in operation in **61** countries

# SUSTAINABILITY



## Sustainability Vision FOR A BETTER WORLD

*L&T shall pursue eco-friendly growth, promoting a culture of sustainability and innovation, and thereby contribute towards a better world.*

## THRUST AREAS



### BETTER PLANET

Carbon-neutral by **2040**

Water-neutral by **2035**

**1.9 Mn** saplings planted in FY23

**35.9 Mn kWh**, of renewable energy consumed in FY23

**29,116 tonnes** carbon emissions avoided in FY23

**68%** of wastewater recycled in FY23



### BETTER BUSINESS

**24%** recycled & eco-friendly material used in FY23

**37%** revenue from Green Business

**₹3,448 Mn** cumulative R&D spend for last 3 years

**₹81,776 Mn** revenue in FY23 from new and emerging business started in last 3 years



### BETTER COMMUNITIES

**6.9 Mn** manhours – safety training

**1.5 Mn** beneficiaries across health, education, water & sanitation and skill-building in FY23

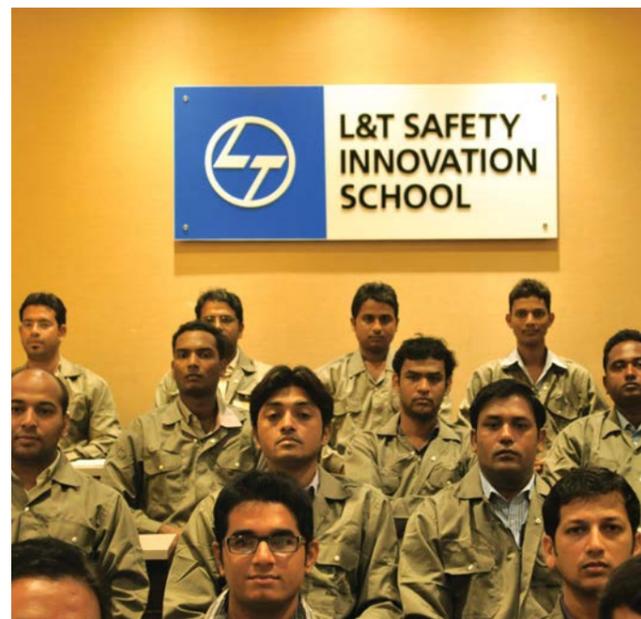


Scan to read L&T's latest Integrated Report



## KEY ACHIEVEMENTS

- Certified to Great Place to Work
- Ranked No.3 in the 2022 'Top 200 Environmental Firms' list of Engineering News-Record (ENR), New York
- Recognised as 'ESG Trailblazer' at ESG World Summit & GRIT Awards 2022
- BML Munjal Award 2022 in the Sustained Excellence Category for 'Business Excellence through Learning and Development'
- Featured among the Top 10 of LinkedIn's '25 Best Workplaces in India'
- Defence Business received the STAR award in Occupational Health Safety and Environment Awards from Ministry of Labour Welfare and Skill Development on April 11, 2022





**Find us on:**



[www.Larsentoubro.com](http://www.Larsentoubro.com)

*Larsen & Toubro Limited*

L&T House, N.M. Marg, Ballard Estate, Mumbai 400001, INDIA  
CIN: L99999MH1946PLC004768