

# INTEGRATED MODULAR FABRICATION SOLUTIONS

Your Trusted Partner  
for Global Projects

**PERFORMANCE GUARANTEED**

## About Us

L&T Hydrocarbon Engineering is an engineering, procurement, fabrication, construction and project management company providing integrated 'design to build' solutions to large and complex offshore and onshore hydrocarbon projects globally.

The company is a wholly-owned subsidiary of Larsen & Toubro, an Indian multinational engaged in technology, engineering, construction, manufacturing and financial services with over USD 21 billion in revenue.

With its global operations and a sharp focus on customer service, L&T Hydrocarbon Engineering is uniquely positioned to deliver successful projects through enhanced responsiveness in all its engagements.

The company's more than three decades of rich experience is backed by its extensive capabilities across the hydrocarbon value chain and a range of offerings that ensure demonstrable value for customers. Employing digitalization and cutting-edge innovation, it delivers technologically superior solutions at every phase of project execution. The company further ensures reliability and on-time delivery by adhering to global quality norms and the most stringent of HSE standards.

Conscious of its larger responsibilities as a corporate citizen, L&T Hydrocarbon Engineering is committed to the development of the communities around its facilities and project sites.

### L&T Hydrocarbon Engineering – Business Verticals

Offshore	Onshore	Construction Services	Modular Fabrication	AdVENT
<ul style="list-style-type: none"> <li>Integrated Process Complex and Wellhead Platforms</li> <li>Subsea Pipelines &amp; Systems</li> <li>Brownfield Projects</li> <li>Living Quarters</li> <li>FPSO Modules &amp; Jack-up Rigs</li> <li>Wind Farms</li> <li>Decommissioning</li> <li>Transportation &amp; Installation Services</li> </ul>	<ul style="list-style-type: none"> <li>Upstream Oil &amp; Gas Processing &amp; Treatment Facilities</li> <li>Petroleum Refining</li> <li>Fertiliser</li> <li>Petrochemicals</li> <li>Cross-country Pipelines &amp; Terminals</li> <li>Cryogenic Storage Tanks &amp; Terminals</li> </ul>	<ul style="list-style-type: none"> <li>Site Development &amp; Pile Foundation</li> <li>Complete Civil &amp; Structural Work</li> <li>Plant &amp; Non-plant Buildings</li> <li>Piping &amp; Mechanical Erection</li> <li>Electrical &amp; Instrumentation</li> <li>Tankages including Firefighting System</li> <li>Laying of Cross-country &amp; In-field Pipelines</li> </ul>	<ul style="list-style-type: none"> <li>Offshore Structures and Modules for Oil &amp; Gas Projects</li> <li>Onshore Structures &amp; Process Modules</li> <li>LNG Modules</li> <li>Offshore Wind Farm Projects</li> <li>Deepwater Subsea Structures</li> <li>Modular Speciality Furnaces</li> <li>Jack-up rigs &amp; MOPU</li> <li>E&amp;I Houses</li> <li>Pipe Spools, Fire Proofing &amp; FBE Coating</li> <li>Pressure Vessels &amp; Static Equipment for Refinery &amp; Petrochemical Plants</li> </ul>	<ul style="list-style-type: none"> <li>Design &amp; Engineering Services - Basic, FEED &amp; Detailed Engg</li> <li>Project Management Services - EPCM / E&amp;P / PMC</li> <li>Modular Engineering &amp; Technology Solutions</li> <li>Strategic EPC Projects</li> <li>Asset Integrity Solutions</li> <li>Smart Solutions for Asset Management</li> <li>Shutdown &amp; Turnaround</li> <li>Emerging Technology Driven Solutions &amp; Innovative Business Models</li> </ul>
				

## MISSION

### Execution Par Excellence

We are committed to evolving into a major Indian multinational, occupying leadership position in the hydrocarbon industry.

Our people are our prime movers. We practise collaborative team-working with zeal, responsiveness and a sense of urgency. We encourage our personnel to demonstrate an entrepreneurial spirit and assume ownership for their actions.

We believe in an ethical work culture, with emphasis on governance in all business dealings. Our endeavour is to practise the highest levels of Quality, Health, Safety, Environmental and Information Security in all our operations.

Our focus is on sustainable value creation for all our stakeholders. We are passionate about our performance culture and committed to delivering excellence at every phase of our operations.

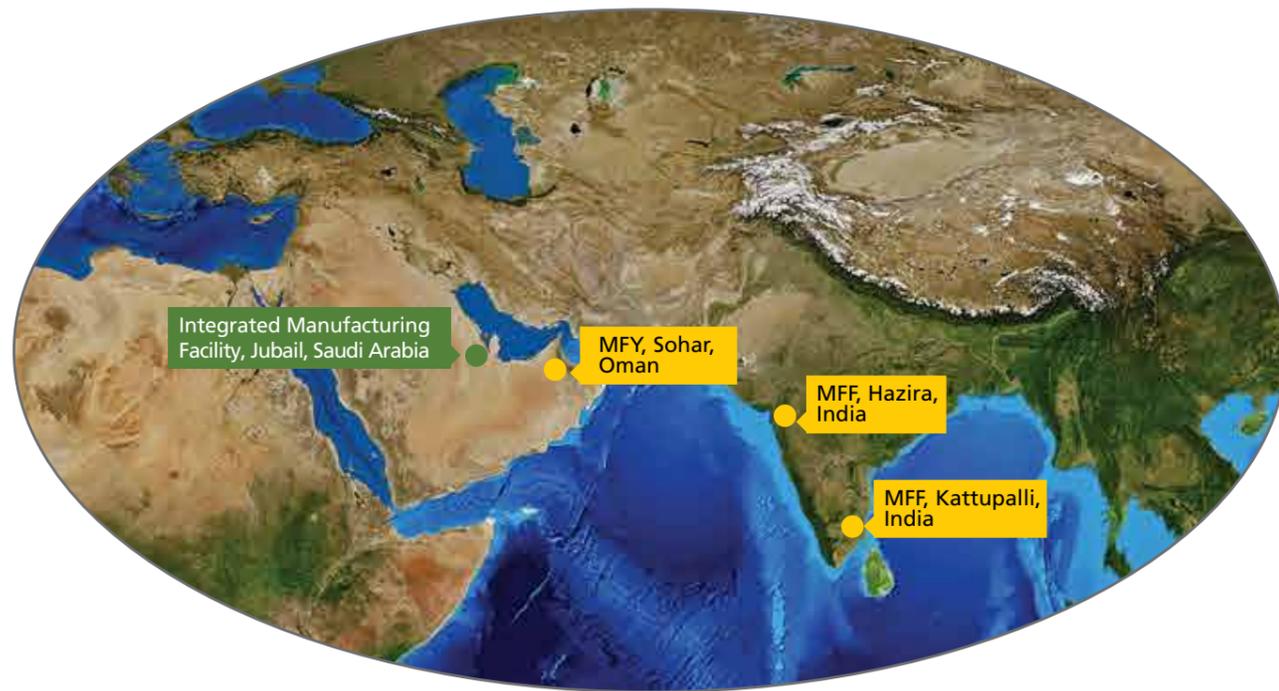


**Subramanian Sarma**  
CEO & Managing Director

Date: 1<sup>st</sup> February, 2019



**L&T Hydrocarbon Engineering**



## Total Annual Fabrication Capacity: 200,000+ MT

We offer comprehensive Modular Engineering, Procurement & Fabrication solutions for offshore and onshore projects, primarily in the oil & gas sector, including fabrication and supply of modules and static equipment for the offshore oil & gas fields, refineries, petrochemical plants and fertilizer complexes. We are also equipped to supply foundations and substation modules for Offshore Wind Farm projects.

With three world-class Modular Fabrication Facilities with a combined annual capacity of over 200,000 MT, we are well-equipped to deliver complex modules, duly tested / pre-commissioned prior to delivery. These facilities located strategically at Hazira (on India's west coast), Kattupalli (on India's east coast), and Sohar (Oman), give credence to our claim of being one of the world's leading equipment manufacturers.

We recently added to our manufacturing muscle by opening a new Integrated Manufacturing Facility at Jubail in Saudi Arabia to cater to the local market.

These facilities offer year-round and on-time delivery with robust QHSE performance and zero punch list. They are equipped with state-of-the-art infrastructure and machinery for operational and logistical flexibility, project management and cost competitiveness, and leverage automation & digitalisation in the manufacturing process.

Each of our Fabrication Facilities is situated on the waterfront and features captive load-out quay walls suitable for dispatch of large and heavy modules on board ocean-going vessels and barges.

Our Modular Solutions are a unique combination of Modular Fabrication Facilities backed by rich and extensive

## CERTIFICATIONS



ISO 9001:2015  
ISO TS 29001:2010



ISO 50001:2011  
ISO 14001:2015  
BS OHSAS 18001:2007



ASME 'U' STAMP  
ASME 'U2' STAMP  
ASME 'S' STAMP



API 2B MONOGRAM



'R' STAMP  
'NB' STAMP



ISO 3834-2  
EN 1090-1



SA 8000:2014

experience of project Engineering, Procurement and Installation / Construction, Testing and Commissioning (EPIC/EPCC) in both Offshore and Onshore domains.

Our facilities are accredited with global certifications. With ISO ASME S, U, U2, R and NB Stamps as well as API 2B approvals under their belt, these facilities also deliver static equipment like pressure vessels and columns for refineries, petrochemicals, fertilizer projects and other process industries. These facilities function as a one-stop solution for module fabrication requirements.

The operations at all three Modular Fabrication Facilities are integrated under one business vertical for improved operational synergy and enhanced customer focus. With common working processes and procedures and

transferable human resource across the three facilities retaining the experience within company, we offer a unique advantage to our clients wherein they can choose a yard most suited to their project geographically, from a logistics stand point, and not worry about project requirement, capabilities or services on offer.

All the three facilities are pre-qualified by major International and National Oil Companies, Process Licensors and Technology Companies.

Continuous improvements in production processes and deployment of automation and digitalization initiatives including Serial Production of Jackets with jigs and fixtures enable us to provide customized comprehensive solutions to our customers.



Modular Fabrication Facility, Hazira, India

<b>Total Area</b>	<b>500,000 sq. m</b>
<b>Average Annual Person-Hour</b>	17 Million
<b>Largest Module Despatched</b>	5700 MT



Modular Fabrication Facility, Kattupalli, India

<b>Total Area</b>	<b>900,000 sq. m*</b>
<b>Average Annual Person-Hour</b>	18 Million
<b>Largest Module Despatched</b>	6300 MT

\*Additional 700,000 sq.m land bank available.



Modular Fabrication Yard, Sohar, Oman

<b>Total Area</b>	<b>700,000 sq. m</b>
<b>Average Annual Person-Hour</b>	15 Million
<b>Largest Module Despatched</b>	13500 MT





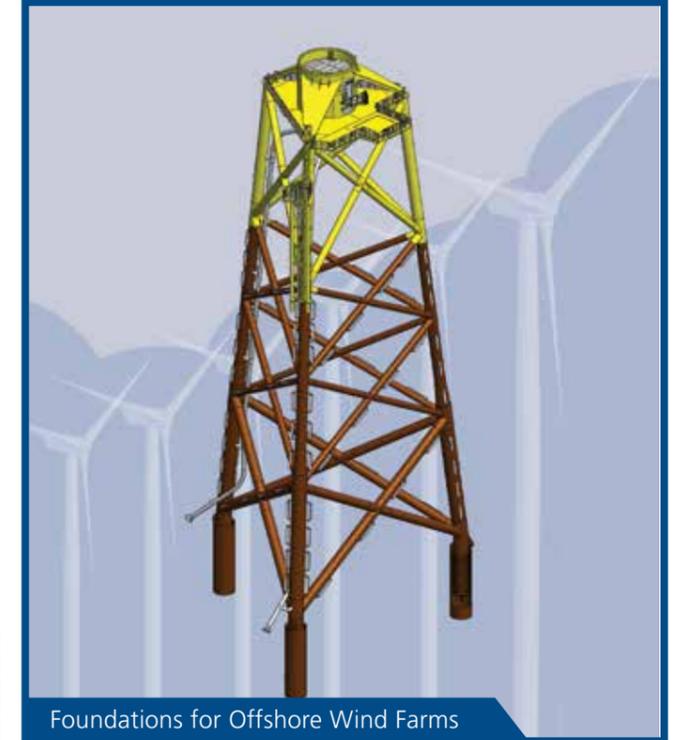
Process Column



Pre-Assembled PIPERACK (PAR) Modules



Electrical Module



Foundations for Offshore Wind Farms



Pre-Assembled Unit (PAU) Process Modules



Heater Furnace Modules

## Integrated Manufacturing Facility, Jubail, Saudi Arabia (Total Area: 90,000 Sq. m)

The state-of-the-art facility is used to manufacture Piping Spools, FBE Coating, Pressure Vessels, Skids and Modules.



# Our Key Differentiators



Brand L&T

Flexibility to Meet Customer Needs



## Cost Advantage

- Cost-effective solutions with low cost base and higher productivity
- Leveraging in-house global procurement and Static Equipment Fabrication capability



## Quick Ramp Up

- Ease in mobility of experienced staff/workmen across LTHE's three Fabrication Facilities



## Facilities

- Strategically located Fabrication Facilities with large area and capacity with top class infrastructure
- Yard layout permitting assembly of entire module trains
- Captive jetties with round the year delivery
- Three Fabrication Facilities offering unparalleled manufacturing flexibility and reliability



## Engineering

- In-house Engineering resources including Modular, Marine, Constructability Study



## Digitalization

- Operational excellence
- Ensuring robust QHSE & on-time delivery
- Zero punch point before sail away



## Management

- Highly-experienced & committed leadership team, well versed in EPC domain
- Proactive management with customer-orientation minimize risk and need for customer supervision
- Robust Systems & Processes



## L&T Hydrocarbon Engineering

A wholly owned subsidiary of Larsen & Toubro Limited

### MODULAR FABRICATION

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