

L&T Press Release

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L&T House
Ballard Estate, Mumbai 400 001
Tel: 91 22 6752 5656
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Hon'ble Minister for Railways flags off L&T-built Full Span Launching Equipment for the High Speed Rail project

First-of-their kind Straddle Carriers & Girder Transporters

Chennai (Kanchipuram), September 09, 2021: Shri Ashwini Vaishnaw, Hon'ble Minister for Railways, Communications and Electronics & Information Technology, Government of India, today flagged off the L&T-built Full Span Launching Equipment at the Company's manufacturing facilities in Kanchipuram, some 50 km from Chennai that has been developed for the Mumbai-Ahmedabad High Speed Rail Project. The virtual flag-off was in the august presence of Mr. Satish Agnihotri, Managing Director, National High Speed Rail Corporation Limited, Mr. Miyamoto Shingo, Hon'ble Minister of Economic Section, Embassy of Japan, New Delhi, Mr. S N Subrahmanyam, Chief Executive Officer & Managing Director, L&T, and other senior members of the L&T management team.

Considering the enormous scale of construction involved in constructing the 508-km long, Mumbai-Ahmedabad High Speed Rail Corridor project, of which L&T's share is 63%, there is a need to adopt innovative, state-of-the-art construction techniques and methodologies to hasten the pace of execution. The full span launch equipment comprising first-of-their-kind Straddle Carriers and Girder Transporters will transport and erect full span girders as a single piece for the double track. The 40-m long girders weighing 975 MT will be the heaviest PSC box girders to be precast and erected in India's construction industry.

"This is a true reflection of our alignment to the spirit of building an Atmanirbhar Bharat," said Mr. Subrahmanyam, at the launch. "Both these equipment have been entirely designed and developed in-house and, most pertinently, customized to the specific requirements of the High Speed Rail project that is by far the largest EPC project ever to be awarded in India. There are several challenges to build at such speed and scale, but we are committed to take on this mammoth challenge to deliver India's first high speed rail project in time and to quality."

"Although such equipment is readily available in several global markets, we felt it would be strategically more beneficial for us to build it indigenously in partnership with MSMEs (Micro

Small Medium Enterprises), and an important step towards making India self-reliant” said Mr. S V Desai, Whole Time Director & Senior Executive Vice President (Civil Infrastructure), L&T. “Our manufacturing facilities have been adequately geared up to deliver such critical equipment that is critical for delivery, and there are more such innovations on the anvil, to help us deliver this prestigious project.”

A few technology points about the full span launching equipment:

- The equipment has been designed using state-of-the-art finite element analysis software by developing full-scale models in-house following stringent international codes maintaining world class design standard
- The machines are checked for various critical loading cases and optimized using combinations of different material grades to ensure long and efficient operation, at a minimum operating cost
- The launching girder machines are suitable for curve tracks and different gradients
- The machines are equipped with highly mechanized and proven world class and most reliable components and can operate in automatic mode using in-built program logic
- There is a provision for remote monitoring through IoT

Background:

Larsen & Toubro is an Indian multinational engaged in EPC Projects, Hi-Tech Manufacturing and Services. It operates in over 50 countries worldwide. A strong, customer-focused approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business for eight decades.

Media Contacts:

Yuvraj Mehta
Head, Corporate Brand Management & Communications
Yuvraj.mehta@larsentoubro.com / +91 85888 88272

Ketan Bondre
Head, Media Relations
ketan.bondre@larsentoubro.com / +91 98205 36572