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Press Release

A Historic Engineering Feat in Indian Metro Construction: India's First 33.33m U-Girder Erected by CMRL in Phase 2

In a landmark moment for Indian infrastructure, Chennai Metro Rail Limited (CMRL), in collaboration with General Consultant AEON and contractor L&T, has successfully erected the country's first-ever 33.33-meter-long U-Girder at Ramapuram, as part of Phase 2, Corridor 5 (ECV-02) today (02-06-2025). This landmark engineering feat by CMRL is a first in the history of Indian metro rail projects.

Weighing 225 metric tonnes, this pioneering girder marks a significant engineering achievement and a testament to the technical prowess, innovation, and execution capabilities of the team involved.

Normally, in traffic junctions, U turns we go for longer span with steel girder considering future traffic needs. In this location, in front of the L&T headquarters, instead of steel we tried for longer u- girder, which turned out be the longest U-girders among Indian metros. Also, it's aesthetically excellent.

The challenge is casting with special moulds, transportation and launching.

The work was executed successfully on three span, two girders on each span. Total of 6 U-Girders of 33.33 meters each —demonstrating remarkable agility and design excellence.

The casting process involved intricate reinforcement, pre-tensioning, and adherence to the highest standards of quality control. Transporting the massive girder from the casting yard to the erection site required detailed logistical planning and flawless coordination.

The girder was transported using specialized 6+6 axle multi-axle trailers powered by a Volvo FH 520 HP puller.

CMRL continues to push the boundaries of metro construction, not only building transit infrastructure but also strengthening national engineering capabilities.

Thiru. T.Archunan, Director Projects, CMRL along with AGM-EC Thiru. C. Murali Manoharan, DGM-Civil Thiru. A.Ramakrishnan, Tmt. K. Bhavani - EVP & IC Head/Heavy Civil Infra, Thiru. K. Krishna Prabhakar - Project Incharge/L&T, senior officials from CMRL and L&T were present during the occasion.

**Issued By: Public Relations Department,
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