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Press Release

CMRL Casts Final U-Girder for Phase 2, Corridor 5 (ECV-02)

In a landmark moment for Indian Infrastructure, Chennai Metro Rail Limited (CMRL), in collaboration with General Consultant AEON and contractor L&T, has successfully completed the casting of final 19.5m long Adambakkam Station U-Girder at C5 ECV-02 Casting Yard. This marks the completion of a massive production scope of 824 U-Girders—one of the largest ever undertaken across Chennai Metro Rail projects.

Spanning over 43 acres, the C5 ECV-02 Casting Yard has stood as one of the most productive and dynamic precast facilities under the CMRL Phase 2 project. Strategically divided into six dedicated production bays, the yard specialized in manufacturing a massive array of precast components required for the construction of the 13.1 km elevated viaduct and associated stations of Corridor 5.

The project envisages the casting of 5,836 precast elements, involving approximately 1.2 lakh cubic metres of concrete and weighing nearly 3 lakh metric tonnes.

- 302 Pier Caps
- 1465 Pier Arms
- 824 U-Girders
- 2055 I-girders (Post-Tensioned & Pre-Tensioned)
- 194 T-girders
- 68 Portal U shells & 1079 Parapets

All these elements are being transported from the casting yard to the project alignment located approximately 18 kms away, demonstrating the scale and complexity of the operation.

Another notable achievement of the project was the successful implementation of automated station U-Girder mould operations integrated with hydraulic systems, a pioneering initiative introduced for the first time in India in U-girder precasting. This innovative solution automated the process through controller for enhanced operational safety, quality, reduction in cycle time and significantly reducing the dependency on labour thus optimizing the overall costs.

The project also encompasses casting of smallest U Girder of 8.9m to India's longest U-girder (33.3m) weighing 225 MT which demonstrates team's engineering expertise, design capability, and operational agility in executing highly complex precast operations. The casting was carried out successfully without any operational issues, setting a new benchmark in metro rail infrastructure construction.

Thiru. T.Archunan, Director Projects, CMRL along with AGM-EC Thiru. C. Murali Manoharan, Thiru. Vinod - RE/GC, Thiru. Parthiban - SDRE, Thiru. K. Krishna Prabhakar - Project Incharge /L&T, Thiru. Elango - Project Manager/L&T, Thiru. Upendar - Casting Yard Manager/L&T, senior officials and staff from CMRL and L&T were present during the occasion.

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