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Press Release

Commencement of Production of trains for CMRL Phase-2 Network at Alstom Transport India Limited, Sricity, Andhra Pradesh.

The Manufacturing of the 36 driverless trains for operations in the phase-II network of Chennai metro commenced by Thiru. M.A.Siddique, I.A.S., Managing Director of CMRL, on 8th of Feb 2024 at Alstom Transport India Limited, Sricity. Thiru. Rajesh Chaturvedi, Director (Systems and Operations) CMRL, Thiru. A.R. Rajendran, CGM (RS) CMRL, Thiru. Anilkumar Saini, Managing Director - Rolling Stock Alstom, and other senior officials and staff of CMRL and Alstom Transport India Ltd were present during the occasion.

CMRL has awarded the Contract ARE-03A for supply of 36 numbers of Driverless (UTO – Unattended Train Operation) trainsets of 3-car formation each (108 cars) for its phase-2 project on for a value of INR 1215.92 Crore including taxes and duties to M/s. Alstom Transport India Limited.

The scope of the contract includes supply of driverless trains including the design, manufacture, testing, commissioning of standard gauge metro rolling stock, training of personnel, supply of spare parts and defect liability.

After award of the contract, Design reviews have been successfully completed. With the Key date of delivering the first train set to CMRL Poonamallee Depot in August 2024, manufacturing of the car body for the first train commenced on 8th February 2024 at the manufacturer's premises, i.e., Alstom Transport India Limited, Sricity.

Following the completion of car body manufacturing, Alstom will proceed with fitting and final assembly. Subsequently, the first trainset will undergo the necessary testing and validation at the manufacturer's premises before its delivery to CMRL's Poonamallee Depot. Following train delivery, the Rolling stock will undergo various static and dynamic trials in the phase-2 network, along with obtaining statutory approvals for the commencement of passenger revenue operations in year 2025.

These trains for the CMRL Phase-2 network redefine urban transportation by offering a range of features focused on passenger comfort, safety, and environmental responsibility. With a capacity of up to 1000 passengers, these three-car trains prioritize a seamless boarding experience with spacious internal gangways. The air-conditioned environment provides better comfort, with dedicated spaces for women and differently abled individuals, emphasizing a women-friendly travel experience.

Safety measures such as emergency evacuation doors, strategically placed fire extinguishers, and obstacle detectors enhances security. The trains are equipped with regenerative electric braking for energy efficiency, while advanced passenger announcement systems provide timely updates. Overall, these driverless trains set a new standard in urban transit, combining convenience, safety, and sustainability.

Enclosed: **"Features of CMRL phase-2 Rolling stock"**

Issued By: Joint Director / Public Relations Officer
CMRL, Chennai – 600 035.

Features of CMRL phase-2 Rolling stock

Driverless Train Operation: -

- GoA-4 grade Automation.
- Design speed of 90 km/h and operational speed of 80 km/h.
- 3-car configuration (DM+TC+DM).
- 67.8 m Length and 2.9 m wide Stainless Steel Carbody Coaches.
- Each three-car train accommodates a maximum of approximately 1000 passengers.

Passenger-Centric Features:

- Seamless passenger movement facilitated by internal wide gangways, ensuring a hassle-free boarding, and disembarking experience.
- Air-conditioned environment prioritizing passenger comfort throughout the journey.
- Dedicated spaces for women and differently abled passengers.
- Perch seats provided for the comfort of standing passengers or those requiring additional support.
- CCTV cameras both inside and outside the cars enhance security and surveillance.
- Conveniently located charging sockets for mobiles and laptops cater to modern commuters' connectivity needs.

Women Friendly Features:

- Special women friendly area allocated.
- Different colours of grab handles are used to differentiate the ladies' area.
- Grab handles installed at a lower height in comparison with other saloon areas for easy access.

Inclusive Features for Differently Abled Passengers:

- Dedicated space provided for a wheelchair passenger with a support handle.
- Long wait press button provided in the wheelchair area for requesting long halt of trains at stations.

Real-Time Information and Entertainment:

- LCD screens displaying real-time route maps above all doors for easy navigation.
- Side LCD screens provided for additional information and entertainment purposes.

Safety Measures:

- On-board fire and smoke detection systems for immediate response during unforeseen circumstances.
- Front emergency evacuation door system.
- Fire Extinguishers are placed in under the seat.
- Trains are equipped with obstacle and detrainment detector, to detect obstacles and train derailments.

Technological Advancements:

- Improved humidity control for enhanced passenger comfort.
- Microprocessor-controlled brakes for precision and efficiency.
- Secondary air-suspension systems for advanced ride comfort.
- Push back type doors provided considering passenger safety.
- Each door is equipped with door indicator for showing door closing and opening status.
- Energy efficiency through regenerative electric braking, contributing to overall sustainability.

Passenger Announcement and Communication to OCC:

- Driverless trains equipped with advanced passenger announcement systems, ensuring timely updates and information dissemination throughout the journey.
- Additional PEI devices provided to facilitate passenger communication with OCC.

CMRL's commitment to innovation and passenger satisfaction is evident in the unveiling of these driverless trains. The future of public transportation has arrived, promising a seamless, safe, and enjoyable journey for commuters.

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