

## **Alstom commences production of driverless trainsets for Chennai Metro Phase II**

- **108 advanced metro coaches are being manufactured at Alstom's facility in Sri City**
- **These new trains are the most advanced state-of-the-art green vehicles, designed for a safe speed of 90 kmph and operational speed of 80 kmph**
- **The total value of the project is 124 million euros**

**8 February 2024** - Alstom, a global leader in smart and sustainable mobility, today commenced the production of its world-class Metropolis trainsets for the Chennai Metro Phase II from its state-of-the-art manufacturing facility in Sricity. This order aims to deliver 36 metro trainsets, each comprising of three cars, and capable of operating at a top speed of 80 kmph. These trains are designed to run on the 26 km corridor, a segment of Phase-II linking Poonamallee Bypass to Light House via **28 stations** (18 elevated and 10 underground). The production was commenced at a commemorative ceremony led by leaders from Chennai Metro Rail Ltd. and Alstom India.

The project is valued at 124 million euros, which also includes training of the personnel to Chennai Metro for operation and maintenance. With 25 KV power supply for optimal energy efficiency, Alstom's Metropolis metros will ensure safe and reliable passenger transport for over 11 million citizens of the city. Additionally, the overall project will significantly contribute towards the socio-economic development by connecting key zones.

**Mr. M.A. Siddique, I.A.S., Managing Director** of **CMRL** said "Chennai Metro has established itself as a cornerstone of efficient and reliable transportation for our citizens. It not only boosts the economy by improving connectivity but also champions sustainable mobility by reducing emissions and decongesting roads. CMRL will be introducing Driver-less trains in Phase-II. These modern trains prioritize safety and passenger comfort, further elevating the commuting experience. We are happy that our first set of Driverless trains will be manufactured near Chennai by Alstom. We look forward to operating these technologically advanced trains on the Phase-II network by end of 2025, marking a significant milestone for the city's transportation infrastructure."

Commenting on the occasion, **Olivier Loison, Managing Director, Alstom India** said, "We have a long-standing association with Chennai Metro, for over a decade. The rolling stock order for Chennai Metro Phase-I marked the beginning of our manufacturing journey in India. As we begin production for the second phase, we are thrilled to be bringing more innovation to Chennai Metro that promises to redefine the commuting experience for the residents of Chennai."

### **Rolling Stock Highlights of the trains for Chennai Metro Phase II**

The metro system boasts impressive features, including three-car trains accommodating up to 1000 passengers, ensuring a seamless boarding experience with wide internal gangways. The air-conditioned environment prioritizes comfort, with dedicated spaces for women and differently abled individuals. Dedicated to creating a women-friendly travel experience, the new metro introduces special features catering to the comfort and safety of female passengers. One entire car reserve 2/3<sup>rd</sup> of its space as a designated ladies' section. Recognizing the importance of accessibility, distinct colours mark grab handles within this area, and their installation at a lower height ensures easy access. Perch seats will offer support for standing passengers, complemented by enhanced security through CCTV cameras. Safety remains paramount with emergency evacuation doors and strategically placed fire extinguishers. The system is equipped with obstacle and detrainment detectors for swift issue resolution, and it emphasizes sustainability with regenerative electric braking for enhanced energy efficiency. These driverless trains are equipped with advanced passenger announcement systems, ensuring timely updates and information dissemination throughout the journey. The new metro is set to redefine urban transportation with a focus on comfort, safety, and environmental responsibility.

### **Design highlights of the trains for Chennai Metro Phase II**

Inspired by the graceful 'Mudras' of the Indian classical dance form, Bharatnatyam, the exterior front mask forms a unique and culturally rich design. The saloon draught screen (the glass support against every corner seat in the metro) pattern pays homage to Tamil Nadu's traditional decorative art form, known as 'Kolam'. These trains will be the first in India to introduce Perch seats, enhancing passenger experience and comfort. The colour palette is based on the region's landscape, architecture, state heritage, vibrant communities, rich traditions, diverse art, and cultural expressions.

These metro train sets are engineered and designed to operate driverless with Unattended Train Operations (UTO). The metro coaches are equipped with Automatic Train Operation (ATO) and Automatic Train Protection (ATP), along with a regenerative braking system, ensuring substantial energy conservation. Featuring **GOA 4 driverless features**, these trains will offer an environmentally friendly and comfortable metro solution for passengers of Chennai.

Alstom had also manufactured and delivered 208 metro cars for the 54km of first phase and Extension of Corridor-I from Airport to Wimco Nagar and Corridor-II from Chennai Central to St. Thomas Mount. In addition to this, the company has also successfully designed, tested, and commissioned the track-works covering 45 kms of corridors I & II for the Chennai Metro.

**About  
Alstom**

Alstom commits to contribute to a low carbon future by developing and promoting innovative and sustainable transportation solutions that people enjoy riding. From high-speed trains, metros, monorails, trams, to turnkey systems, services, infrastructure, signalling and digital mobility, Alstom offers its diverse customers the broadest portfolio in the industry. With its presence in 63 countries and a talent base of over 80,000 people from 175 nationalities, the company focuses its design, innovation, and project management skills to where mobility solutions are needed most. Listed in France, Alstom generated revenues of €16.5 billion for the fiscal year ending on 31 March 2023.

For more information, please visit [www.alstom.com](http://www.alstom.com).

**About  
Alstom  
in India**

Alstom is the only multinational sustainable mobility provider in India, to have a comprehensive portfolio of offerings to meet customer specific needs, from cost-efficient mass-market platforms to high-end technological innovations. Synonymous with the country's 'Rail Revolution', Alstom continues to be a strategic partner in supporting India's freight revolution and passenger movement. With 6 industrial sites and 4 major engineering centres, the company not only caters to domestic project needs, but also delivers for many international projects. Supporting the government's modernisation initiatives, Alstom has been at the forefront of introducing several breakthrough technologies in India with world class rolling stock, rail equipment & infrastructure, signalling and services. Fully aligned with the country's vision of Make-in-India and Aatmanirbhar Bharat, Alstom remains deeply committed to strengthening its local sourcing and supply chain ecosystem.

**Contacts**

Ankita UPADHYAY - Tel. : + 91 8826946333  
[ankita.upadhyay@alstomgroup.com](mailto:ankita.upadhyay@alstomgroup.com)