

## Transforming Agra's mobility with Alstom-built trains and CBTC signalling technology as Metro revenue service begins

- These world-class Movia metro trains integrate advanced signalling solution for safe and reliable service
- Equipped with Flexx metro bogies and Mitrac propulsion system to increase energy efficiency
- Alstom's commissioning of Cityflo 650 moving block CBTC technology for Agra Metro will significantly improve connectivity, reduce travel time, and ensure reliable service, perfectly poised to meet the increasing mobility demands
- The trains are built in India and can operate at up to 80 kmph

**6 March 2024** – In a landmark moment, the historic city of Agra witnessed the commencement of metro service with the inaugural run made by the world-class trains built by Alstom. These new Movia metros are equipped with advanced Cityflo 650 signalling solution to ensure safe, reliable, and sustainable mobility to the commuters. The first train was flagged off by Honourable Prime Minister of India Shri. Narendra Modi virtually and Honourable Chief Minister of Uttar Pradesh Shri. Yogi Adityanath from the Taj Mahal Metro Station.

Alstom, a global leader in smart and sustainable mobility, has designed these trains at its engineering centre in Hyderabad with the signalling solution developed at Gurgaon & Bangkok. These trains have been manufactured at Alstom's state-of-the-art facility in Savli (Gujarat), under the 'Make in India' and 'Aatmanirbhar Bharat' initiatives. Embedded with modern energy-efficient propulsion systems and regenerative braking, that reduce energy consumption, this is a sustainable and eco-friendly alternative to other modes of transportation.

Olivier Loison, Managing Director - Alstom India said, "We are thrilled to witness this moment as Agra becomes the 6<sup>th</sup> city in Uttar Pradesh with an operational metro service. We have a strong association with UPMRC and are proud to have contributed to almost all metro projects in the state. The metro promises to be a game-changer for Agra as it will enhance tourism by providing a sustainable and efficient mode of transportation to visit the city's cultural treasures, including the iconic Taj Mahal. It will also prove to be a boon for residents as it will offer improved connectivity, reduced travel time, and a modern mobility service."

The first trainset was delivered to Uttar Pradesh Metro Rail Corporation (UPMRC) by Alstom in September 2021 in Kanpur, and Kanpur revenue service was inaugurated by Honourable Prime Minister of India Shri. Narendra Modi in December 2021. So far, a total of 26 trainsets have been delivered to Agra (9) & Kanpur (17) / UPMRC. Each trainset can accommodate approximately 960 passengers in the three-car configuration. Over two million residents of the city are expected to benefit by the Agra Metro Rail Project, directly and indirectly.

Shri Sushil Kumar, MD, UPMRC, said, Uttar Pradesh Metro has the privilege of starting the Metro projects in the fastest phase, and Lucknow was started in three years' time, while Kanpur priority section was started in two years, two months and now underground section constructed and started in less than two years' time in Agra. One of the biggest reasons to achieve this target was the fastest

commissioning of trains. As most of the prototype testing of the train was done in Kanpur as the Kanpur and Agra trains are the same, we were able to save almost one year time in commissioning of trains and interface with signalling that was huge saving, which was achieved for the first time in India. Support of Alstom team was instrumental in the entire journey”.

Inspiration from Uttar Pradesh’s rich cultural heritage combined with best-in-class design has resulted in an attractive look for the metro fleet. Built with stainless-steel car bodies, the air-conditioned cars will have automated sliding doors, comfortable seating and standing spaces, dedicated areas for entry of specially abled, who use wheelchairs and modern passenger information systems, combining to provide an accessible and welcoming environment for passengers. Aerodynamic modular design of the new Movia metros will offer a host of safety, security, and environmental benefits along with great passenger experience.

The trains will be equipped with Flexx metro bogies and the Mitrac propulsion system to increase energy efficiency, reduce operating costs, and ensure the new trains meet the highest environmental standards.

Agra Metro is equipped with Alstom’s advanced moving block CBTC solution Cityflo 650. This includes a modern ATP system with continuous supervision and continuous update of this information through transmissions from the radio. The vehicles and infrastructure are supervised using a modern computer-based control and supervision system. It ensures maximum availability and safety by using redundant interlocking computers. Alstom’s advanced signalling system provides a high level of passenger comfort – smooth braking and acceleration.

Alstom’s scope on the Agra-Kanpur metro project includes designing and delivering 201 metro cars (67 metro trainsets) and equipping Agra’s 2 Corridors (27 stations, 30 Km) with an advanced CBTC signalling solution (Cityflo 650).

The Movia metros for Agra and Kanpur are part of Alstom’s market-leading Metropolis metro solutions, designed to keep cities breathing for over 60 years. More than 80 customers worldwide operate metros made by Alstom. For more information on Metropolis metros, please visit:

<https://www.alstom.com/solutions/rolling-stock/metropolis-metros-keeping-your-city-breathing>

As an undisputed leader in CBTC technology with over 30 years of expertise in communications-based train control and more than 190 metro lines equipped in over 32 countries, Alstom’s CBTC technology answers the worldwide mobility challenges of today and provides fluid, connected mobility to passengers in times of increasing transportation needs.

[Alstom Signalling](#)

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**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 modernization 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.

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