



## Press Release

### **Raksha Rajya Mantri Flags-off Driverless Metro Train at BEML's Bangalore Plant**

**Bangalore | July 15, 2024** – The Honourable Raksha Rajya Mantri, Shri Sanjay Seth, today flagged off a new driverless MRS-1 Metro trainset at BEML's Bangalore plant, marking another milestone in the achievements of BEML's Rail business division. This trainset is the 55<sup>th</sup> to be supplied to the Mumbai Metro Rail Metropolitan Authority for operation on Line 2 and Line 7.

BEML secured the order amidst stiff global competition for the design, manufacture, supply, testing, commissioning, and training of 96 trainsets (6-car trainsets) of standard gauge Metro cars, valued at approximately INR 4319 crores.

During the ceremony, Shri Sanjay Seth emphasized the significance of indigenously developed metro rail systems in enhancing urban mobility. "BEML's contribution to the 'Make in India' initiative is commendable. The driverless metro trainset symbolizes our nation's growing capabilities in manufacturing advanced transportation solutions," he stated.

Shri Shantanu Roy, CMD of BEML, expressed his appreciation for the Ministry's continued support and reiterated BEML's commitment to delivering quality products. "Our team at BEML is proud to contribute to the nation's infrastructure development. We are committed to excellence and innovation in all our endeavors," he said.

BEML is the first Indian rolling stock manufacturer to design, develop, manufacture, and supply driverless trains. The company takes immense pride in supplying these state-of-the-art driverless trains to the prestigious Mumbai Metro Line 2 and Line 7. During the design stage, BEML ensured that the Metro train is optimized for maximum passenger comfort, safety, and energy efficiency, meeting stringent global standards. The 6-car trainset has a capacity of carrying about 2,306 passengers, with seating for 298 passengers.

Initially, the order was for 378 cars, with subsequent orders for an additional 126 and 72 cars placed by the DMRC. Together, this order for 576 Metro cars, valued at approximately INR 4319 crores, is the single largest Metro rolling stock order received by any Metro manufacturer to date in India. This event signifies a major step towards achieving sustainable urban transportation solutions and aligns with the Government of India's vision of promoting indigenous manufacturing capabilities.

#### **Modernized Features of Driverless Trains**

- **6-Car Formation:** Streamlined design for efficient passenger transport.
- **Stainless Steel Car Body:** Enhanced durability with colored graphic film and aesthetically appealing interiors.
- **Roof-Mounted Saloon Air Conditioner:** Ensures a comfortable climate within the train.
- **IP-Based Systems:** Advanced Passenger Announcement (PA), Passenger Information System (PIS), and Passenger Saloon Surveillance (PSSS).
- **Dynamic Route Maps:** LCD-based displays for real-time route information.

- **Automatic Doors:** Electrically driven and synchronized with platform screen doors for increased safety.
- **Modern Interiors:** FRP panels, stainless steel grab poles, grab rails with strap hangers, and stainless steel seats.
- **Comfortable Seating:** Seats with lumbar support for better passenger comfort.
- **Noise Reduction:** Floating floors with rubber coverings.
- **Bicycle Parking:** Facilities in each car for end-to-end connectivity.
- **Energy-Efficient Lighting:** LED-based and auto-dimming for passenger areas.
- **Convenience Features:** USB mobile charging systems and Wi-Fi in all cars.
- **Accessibility:** Dedicated space for wheelchair passengers.
- **Seamless Interconnection:** Gangways with flexible interior panels for easy movement between cars.
- **Fire Safety:** Detection systems with automatic warnings, meeting the latest international standards.
- **Emergency Evacuation:** Front emergency door for passenger safety.
- **Safety Devices:** Obstruction deflection and derailment detection systems.
- **Passenger Communication:** Passenger Alarm Device (PAD) for communication with train operators and OCC.
- **Advanced Signaling:** CBTC-based signaling for driverless operations (Unattended Train Operation, GoA 4).
- **Indigenous Manufacturing:** Bolsterless bogies for the MRS1 project, made by BEML.

**About BEML-** BEML Limited is a leading multi-technology ‘Schedule A’ company under the Ministry of Defence, plays a pivotal role in serving India’s core sectors like Defence, Rail, Power, Mining and Construction by offering world class products. BEML Limited, a committed player in the field of manufacturing earthmoving, transportation, and construction equipment, celebrates a rich legacy spanning six decades of relentless pursuit of excellence and innovation.

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