

# JOURNEY OF INDIA'S FIRST NAMO BHARAT Delhi-Ghaziabad-Meerut



## Revolutionising urban transportation **NAMO BHARAT**



**नमो भारत**

**गति से प्रगति**

### NAMO BHARAT CORRIDORS IN NCR (As per the functional plan on Transport for NCR-2032)

#### Prioritized Corridors in Phase – I (382 km)

- 1 Delhi – Ghaziabad - Meerut 82 km
- 2 Delhi – Gurugram – SNB - Alwar 198 km
- 3 Delhi - Panipat - Karnal 136 km

#### Other Corridors

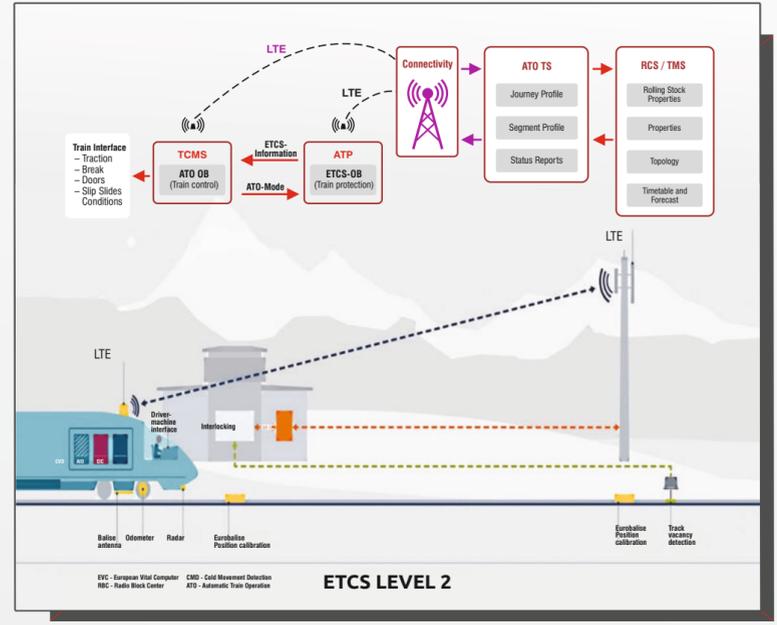
- 4 Delhi – Faridabad – Ballabhgarh - Palwal
- 5 Ghaziabad - Khurja
- 6 Delhi – Bahadurgarh - Rohtak
- 7 Ghaziabad – Hapur
- 8 Delhi – Shahadra - Baraut

### National Capital Region (NCR)



### Signalling System

NCRTC has implemented ETCS Level 2 Signalling system on dedicated LTE, with ATO, supporting interoperability and integrated with Platform Screen Doors for increased safety and reliability on the Namo Bharat Corridors



### Technology driven project implementation

- Automatic fare Collection:** Seamless and contactless entry, enhancing the convenience for the commuter.
- Train Control and Management System (TCMS):** Advanced TCMS for optimized fleet efficiency.
- Continuously Operating Reference Station (CORS) Network:** Ensuring precise infrastructure alignment.
- Common Data Environment (CDE) and Building Information Modeling (BIM):** Efficient designs and collaboration through integrated technologies.
- IDREAMS and SPEED Tools:** NCRTC's innovative asset management tool for streamlining operations and maintenance, and cloud-based project monitoring tools, for sustainable and efficient project management.



**January 2025**  
Operational section extended to 55 km including 11 stations



Entire 82 km corridor to be commissioned by **June 2025**



As on January 2025

**March 2024**  
Additional section between Duhai to Modinagar including 3 Namo Bharat stations became operational



**October 2023**  
17-Km priority section with 5 stations, Inaugurated by Hon'ble Prime Minister



**February 2022**  
Work for underground section started, Sudarshan (TBM) being assembled



**May 2022**  
First trainset of Namo Bharat handed over to NCRTC at Savli, Gujarat



**December 2021**  
Installation completed for first special steel span of Namo Bharat viaduct over mainline Railway in Ghaziabad

**August 2021**  
Electrical Mast erection work started on priority section



**April 2021**  
High performance low maintenance Namo Bharat Track laying started



**June 2019**  
Civil Construction started for Delhi - Ghaziabad-Meerut Namo Bharat Corridor within 3 months of foundation stone laying



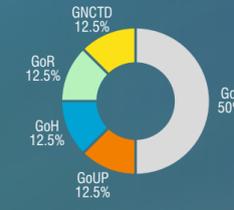
**March 2019**  
Foundation Stone Laid for Namo Bharat corridor and Meerut Metro by Hon'ble Prime Minister

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# NCRTC

National Capital Region Transport Corporation is mandated for designing, developing, implementing, financing, operating, and maintaining Nam Bharat projects in the National Capital Region.

Equity Structure of NCRTC



Gol: Govt of India | GNCTD: Govt of National Capital Territory of Delhi | GoR: Govt of Rajasthan | GoH: Govt of Haryana | GoUP: Govt of Uttar Pradesh

## VISION

Improve quality of life of people by providing equitable, fast, reliable, safe, comfortable, efficient & sustainable mobility solutions enabling economic development of NCR.

## Namo Bharat

A rail-based, high-speed, high-frequency regional transit system seamlessly connecting urban and semi-urban nodes across National Capital Region.

Travel Time	Speed	High Frequency	Better Connectivity
Reducing the current travel time to one-third	<ul style="list-style-type: none"> <li>Design Speed 180 Km/h</li> <li>Operational Speed 160 Km/h</li> </ul>	Trains available in every 10-15 minutes	Stations at every 5-10 Kms

## Delhi-Ghaziabad-Meerut Nam Bharat Corridor

The Delhi-Ghaziabad-Meerut corridor is India's first high-speed regional rail network, designed to significantly reduce travel time, covering the 82 km distance in less than an hour. The project includes 16 Nam Bharat stations with both elevated and underground sections, integrating seamlessly with other public transportation systems.

As of January 2025, a 55 km section from New Ashok Nagar to Meerut South is operational, with Nam Bharat trains serving 11 stations. This project represents a significant advancement in urban transit, offering modern amenities, enhanced safety, and eco-friendly operations.

## Meerut Metro

The Metro will operate on a 23 km stretch within the city, sharing common Nam Bharat infrastructure for efficient connectivity. With 13 stations, Meerut Metro will provide residents with fast, reliable, and eco-friendly transportation, seamlessly integrating with the larger Nam Bharat network.



## Benefits

- Safe and comfortable.
- Multi-modal integration with Indian Railways, Inter-state bus terminals (ISBTs), Airports and the Metro lines at various Nam Bharat Stations for seamless travel.
- Interoperable corridors, Transportation backbone for NCR.
- Balanced and sustainable growth to promote polycentric growth and development.
- Industrial/commercial/educational hubs to be in reach of a larger population.
- Resulting in less migration of people to Delhi leading to reduced congestion.
- Skill development and employment generation, Access to affordable housing around NCR.
- Creation of new economic/industrial zones -Transit Oriented Development (TOD).
- Reduction in congestion and pollution, over one lakh vehicles to go offroad after implementation of Delhi-Ghaziabad-Meerut Nam Bharat Corridor.

## Rolling Stock

- State-of-the-art aerodynamically designed train.
- 3.2 m wide, 22 m long, air-conditioned stainless steel body coaches for Standard and Premium class with automatic plug-in type sliding doors.
- Push button for selective opening of doors on need basis for energy conservation.
- Panoramic windows with curtains in premium class.
- Platform Screen Doors.
- Reserved Coach for Women.

- Mobile/Laptop charging sockets, CCTV.
- 2x2 Transverse seating, Comfortable space for standing passengers, overhead luggage racks.
- Public Announcement & Display System.
- Emergency communication facilities.
- Dynamic route map display.
- Ergonomically designed handrails.
- Regenerative braking system.
- Train Control & Management System (TCMS)



## Electrical System

Gas Insulated Substation type R55/AMS/TSS (Voltage level - 66 KV/132KV/220KV); SCADA compliant with IEC61850. 25 KV AC, 1-Phase, 50 Hz power for traction. 33 KV, 3-Phase, AC power to the Auxiliary substations. Uniquely designed 25KV Flexible Overhead Catenary traction systems for elevated section and exclusively designed Rigid Overhead Catenary System for tunnels with a diameter of 6.5 meter. Specially designed Environment Control System & Tunnel Ventilation System based on inter-station distance and tunnel diameter. State of the art BMS & SCADA to be used.

## Precast Ballastless Tracks

Standard Gauge - 1435 mm. Specifically designed safe, reliable, and durable tracks with reduced maintenance cost. Low vibration & noise levels. High resilience tracks. Axle Load: 17 T



Namo Bharat - Bringing transformation in urban landscape

नमो भारत