

## National Capital Region (NCR)



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

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

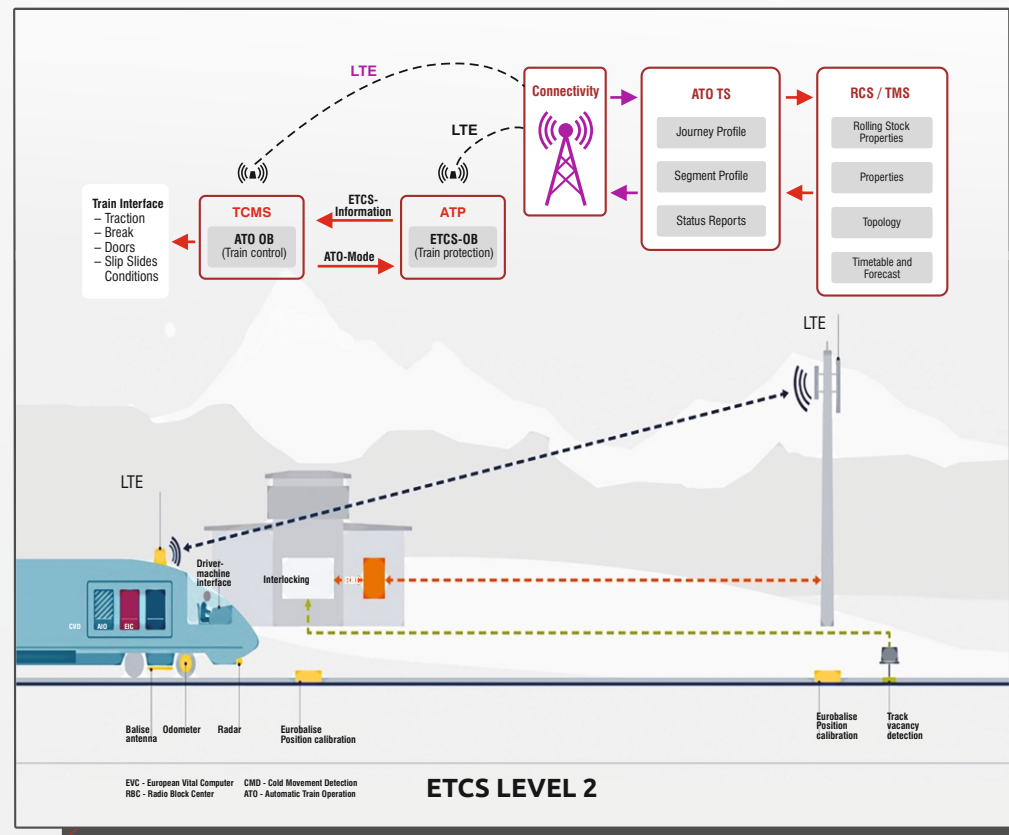
- 1 Delhi – Ghaziabad - Meerut **82 km**
- 2 Delhi – Gurugram – SNB - Alwar **198 km**
- 3 Delhi - Panipat **103 km**

### Other Corridors

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

## 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.

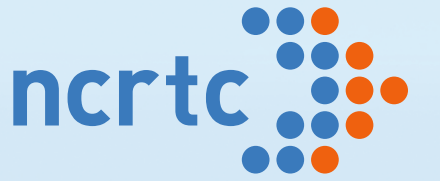
**Common Data Environment (CDE) and Building Information Modeling (BIM):** Efficient designs and collaboration through integrated technologies.

**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.



## JOURNEY OF INDIA'S FIRST NAMO BHARAT

Delhi-Ghaziabad-Meerut



Revolutionising  
urban transportation

# NAMO BHARAT

**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

**August 2021**

Electrical Mast erection work started on priority section



**December 2021**

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



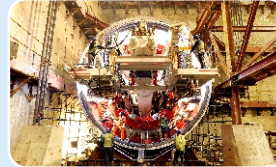
**April 2021**

High performance low maintenance Namo Bharat Track laying started



**May 2022**

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



**February 2022**

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

**October 2022**

First dynamic test run of Namo Bharat trainset with European train control system (ETCS) level 2 signalling over LTE communication network at Duhai Depot



**October 2023**

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

**March 2024**

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



**August 2024**

Operational section extended to 42 km including 9 stations, more than 25 lakhs commuters travelled

Entire 82 km corridor to be commissioned by June 2025



**National Capital Region Transport Corporation**

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As on August 2024

नमो भारत

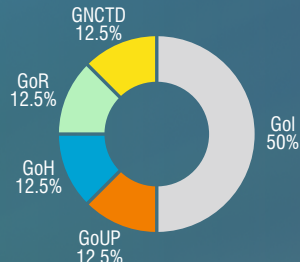
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NCRTC

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

Equity Structure of NCRTC



GoI: 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**  
Reducing the current travel time to one-third

**Speed**

- Design Speed 180 Kmph
- Operational Speed 160 Kmph

**High Frequency**  
Trains available in every 10-15 minutes

**Better Connectivity**  
Stations at every 5-10 Kms

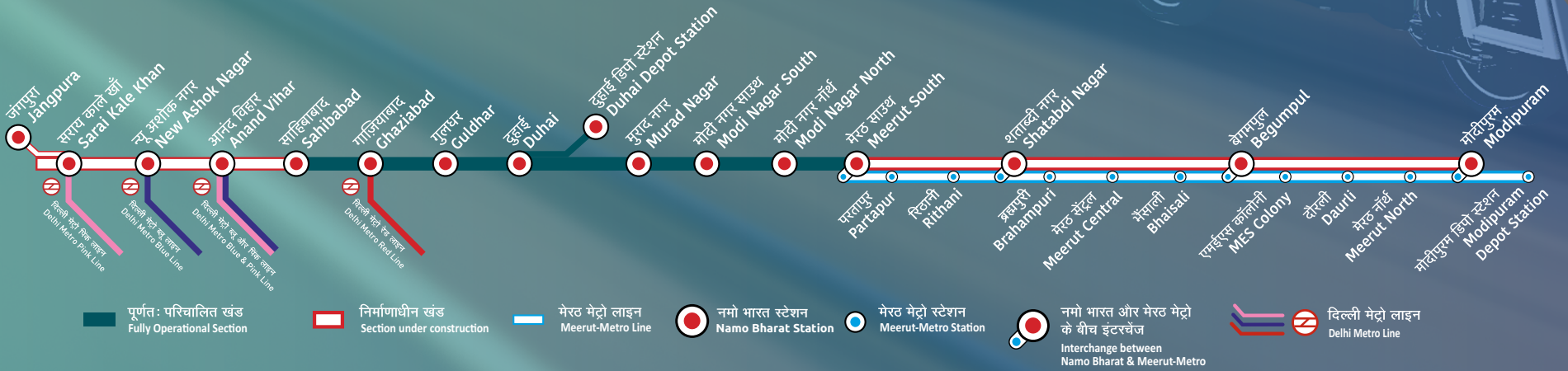
Delhi-Ghaziabad-Meerut Namo Bharat Corridor

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 Namo Bharat stations with both elevated and underground sections, integrating seamlessly with other public transportation systems.

As of August 2024, a 42 km section from Sahibabad to Meerut South is operational, with Namo Bharat trains serving 9 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 Namo 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 Namo Bharat network.



Benefits

- Safe and comfortable.
- Multi-modal integration with Indian Railways, Inter-state bus terminals (ISBTs), Airports and the Metro lines at various Namo 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 off road after implementation of Delhi-Ghaziabad-Meerut Namo 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 RSS/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