

Third Mountain Tunnel Breakthrough Achieved in Maharashtra for Mumbai–Ahmedabad Bullet Train Project, Marking Rapid Progress in High-speed Rail Section

Mountain Tunnel (MT-07) Spans 417 Metres in Length and 14.4 Metres in Width, Built with Advanced Monitoring and Safety Systems to Support High-Speed Bullet Train Operations

Three Mountain Tunnel Breakthroughs Achieved in Just Five Months in Palghar District Strengthening Momentum of India's First Bullet Train Project

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A major engineering milestone has been achieved in the Mumbai–Ahmedabad Bullet Train Project with the successful breakthrough of the third mountain tunnel (MT-07) at Ambesari village in Dahanu Taluka of Palghar district, Maharashtra.

Mumbai-Amdavad Bullet Train Project achieves another milestone 

 3rd mountain tunnel breakthrough in Maharashtra within 5 months.

 Dahanu Taluka, Palghar pic.twitter.com/vhZcU4vgmP

— Ashwini Vaishnaw (@AshwiniVaishnaw) June 2, 2026



With this achievement, three mountain tunnel breakthroughs have now been completed in Maharashtra within the last five months, reflecting rapid progress in one of the most technically challenging sections of India's first high-speed rail corridor.



The newly completed MT-07 mountain tunnel is 417 metres long and 14.4 metres wide, designed to accommodate both up and down tracks of the Bullet Train corridor. The tunnel was excavated through a controlled drilling and blasting method from both ends, supported by advanced engineering and safety protocols.



Throughout the excavation process, sophisticated monitoring systems and geotechnical instruments were deployed to ensure structural stability, worker safety and precision execution. Real-time monitoring arrangements including Surface Settlement Points (SSP), 3D targets, strain gauges and seismographs continuously monitored vibrations, tunnel behaviour and surrounding structures. Comprehensive worker-safety measures including ventilation systems, fire-safety arrangements, controlled access and continuous geotechnical supervision were maintained during tunnelling operations.

Earlier Tunnel Breakthroughs in Maharashtra

The latest breakthrough builds upon earlier milestones achieved in the Maharashtra section of the project. The first mountain tunnel breakthrough (MT-05), spanning 1.5 km, was achieved near Saphale in Palghar district on 2 January 2026, marking the first successful mountain tunnel breakthrough for the Bullet Train Project in Maharashtra. This was followed by the second breakthrough (MT-06) on 3 February 2026, involving a 454-metre-long tunnel excavated using New Austrian Tunnelling Method (NATM), resulting in two breakthroughs being achieved within about one month in Palghar district.

GUJARAT

Valsad, Gujarat

MT8
0.350 Km

Breakthrough achieved
on 5th October 2023

MT7
0.417 Km

Breakthrough achieved
on 1st June 2026

MT6
0.454 Km

Breakthrough achieved
on 3rd February 2026

BOISAR

MAHARASHTRA

MT5
1.480 Km

Breakthrough achieved
on 2nd January 2026

MT3
&
MT4
2.663 Km

VIRAR

MT2
0.228 Km

MT1
0.820 Km

THANE

SHILPHATA

Thane Creek
Undersea Tunnel

4.8 Km Completed
through NATM

21 Km

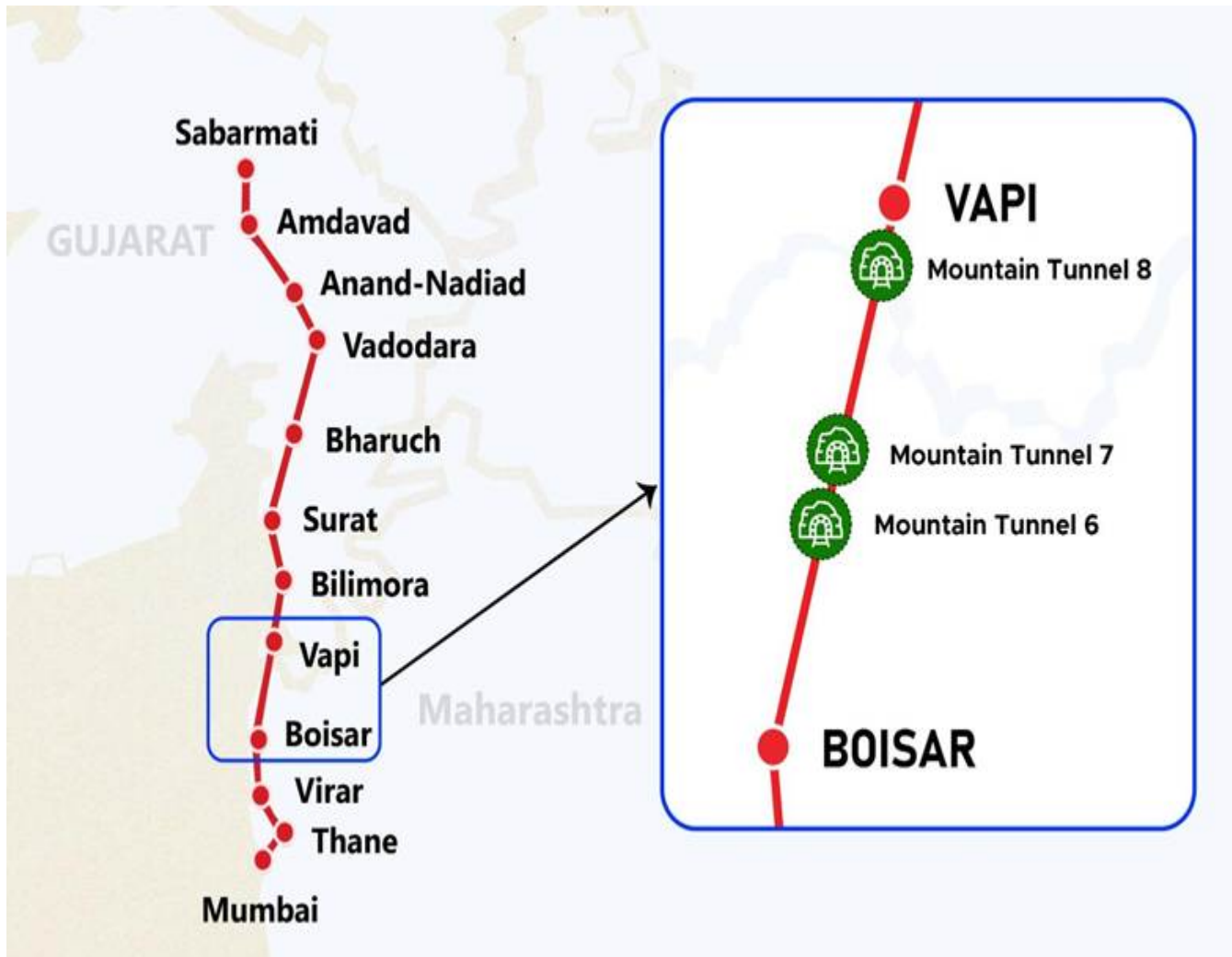
MUMBAI

BKC

* MT - Mountain Tunnel

Among the seven mountain tunnels under construction in Maharashtra, MT-05, MT-06 and MT-07 have now achieved breakthroughs, MT-08 (350 metre) already achieved breakthrough on 5 October 2023, MT-03 has crossed 80% excavation progress, MT-04 has reached nearly 60% progress, while MT-01 and MT-02 are progressing steadily. Of the total eight mountain tunnels in the Mumbai–Ahmedabad Bullet Train Project, seven are located in Palghar district of Maharashtra and one in Valsad district of Gujarat, where tunnelling work has already been completed.

All three mountain tunnels between Vapi and Boisar Bullet Train stations have been successfully excavated. The Mumbai–Ahmedabad Bullet Train corridor passes through an important industrial region between Boisar in Maharashtra and Vapi in Gujarat, where construction work is progressing rapidly. The route between these two cities include three (03) mountain tunnels (MT 08, MT-07 & MT-06).



The Mumbai–Ahmedabad Bullet Train Project continues to drive adoption of advanced tunnelling, monitoring and construction technologies, strengthening India's capabilities in high-speed rail infrastructure and laying the foundation for safe, modern and future-ready rail mobility.

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