



Shinkansen Trains and Bullet Train Project

[Source: BS](#)

Japan is set to provide India with **two Shinkansen train sets (E5 and E3 series) at no cost in 2026.**

- **Shinkansen Trains (E5 Series):** It has been **operational since 2011**. With a speed of **320 km/h**, it was initially **chosen for India's first bullet train line**.
 - Known for its **aerodynamic design**, advanced safety systems, and smooth ride quality, it **represents the cutting edge of high-speed rail technology**.
- **Shinkansen Trains (E3 Series):** A slightly **slow and older model primarily used for mini-shinkansen services**, it shares **similar features to the E5 series**, such as safety mechanisms.
- **Bullet Train Project (Mumbai-Ahemdabad):** Implemented by the **National High-Speed Rail Corporation Ltd. (NHSRCL)**, the project incorporates Japanese Shinkansen technology.
 - The project is funded by the [Japan International Cooperation Agency \(JICA\)](#), covering about **80% of the costs**.
 - The Project **was initially scheduled for completion by 2022**, but the revised deadline is now **2028**.
 - The **Mumbai-Ahmedabad High-Speed Rail Corridor** is part of [India's National Rail Plan \(NRP\) 2030](#).

BULLET TRAIN PROJECT

MUMBAI-AHMEDABAD HIGH SPEED RAIL CORRIDOR



Viaduct
465 km

Bridges
10 km

Bank,
Cut & Cover
7 km

Underground
(7 km Undersea)
21 km

Mountain
Tunnels
5 km



Operational Speed

320 km/hr



Time

2.07 hr (Limited stops)
2.58 hr (Total stops)



Total stations

8 Gujarat
4 Maharashtra

TOTAL LENGTH **508 KM**



GUJARAT
348 km



DNH
4 km



MAHARASHTRA
156 km

SABARMATI
AHMEDABAD
ANAND
VADODARA
BHARUCH
SURAT
BILIMORA
VAPI
BOISAR
VIRAR
THANE
MUMBAI

STRUCTURES



12 Aesthetically
Designed Stations



8 Maintenance
Depots



HSR Training Institute
in Vadodara



3 Rolling Stock
Depots



High Speed Rail
Multi Modal Hub Sabarmati

Read More: [Revamping Indian Railways](#), [India-Japan Relations](#)

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