

BULLET TRAIN News Compendium '24

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2nd Edition



Full Speed Ahead: India's Bullet Train Revolution

Bullet train project gets 100% land five-and-ahalf years after first notification timesofindia. Jan 8, 2024,

NEW DELHI: The government has achieved 100% acquisition of land for the country's first high-speed rail (bullet train) project between Ahmedabad and Mumbai, over five-and-a-half years after the first notification for acquiring land for this project was issued, indicating how difficult and time-taking the process is for any infrastructure works.

Railway minister Ashwini Vaishnaw on Monday announced that the national transporter has acquired 1,389.5 hectares of land for the flagship project in Gujarat, Maharashtra, and Dadra and Nagar Haveli.

He added that the National High Speed Rail Corporation Ltd (NHSRCL) has completed pier casting for 268.5 km out of the total 508.2 km corridor, and it has completed girder launching for 120 km. Vaishnaw has said the first trial run of the bullet train in Gurjarat will start in August 2026.

Land acquisition for bullet train project completed: Ashwini Vaishnaw

hindustantimes.com/ Jan 09, 2024

The land acquisition for the Mumbai–Ahmedabad High-Speed Rail Corridor (MAHSR), commonly known as the bullet train project, has been completed across Gujarat,

Maharashtra, and Dadra and Nagar Haveli, railways minister Ashwini Vaishnaw has said.

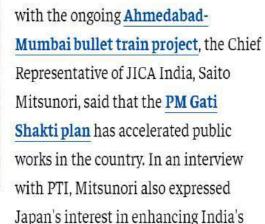
In a post on X on Monday, he said the land acquisition is 100% while pier casting has been done across 268.5 km and girder launching 120.4 km. He added the 1389.49 hectares of land required for the project was acquired.

The ambitious Japan-backed project has been delayed due to earlier protests against land acquisition. It was sought to be completed by 2023. Of the 508.17 km of the project, 155.76 km is in Maharashtra, 384.04 km in Gujarat, and 4.3 km in

Full Speed Ahead: India's Bullet Train Revolution

Ahmedabad-Mumbai bullet train project progress economictimes satisfactory, says JICA India chief

New Delhi, Expressing satisfaction





Representative image.

border road networks and participating in the transnational power transmission project with Bhutan, Nepal and Bangladesh.

"Once the project concept is in the pipeline, meaning the official preparatory route within the government, clarity is there, and everybody is able to assess and monitor progress So, that has helped a lot in accelerating public works in this country," Mitsunori said.

L&T bags mega order for high-speed electrification system for Mumbai-Ahmedabad bullet train project. Details here



Larsen & Toubro (L&T) on 16 January said that its construction arm has bagged a 'mega order' to construct 508 route km of highspeed electrification system for the **Mumbai-Ahmedabad bullet** train project. The company added that the order has been bagged from an authorised Japanese agency.

"The railways strategic business group of L&T Construction has secured a mega contract toconstruct 508 route km of highspeed electrification system works for the Mumbai-Ahmedabad High-Speed Rail (MAHSR) Project, popularly referred to as the bullet train project," the company said in a filing to **BSE**.

Upon completion, this electrification system will enable trains to travel at speed of up to 320 kilometre per hour.

Suburban rly gets fund boost, Rs 25,000 crore for bullet train

timesofindia, Feb 2, 2024

MUMBAI: A total of Rs 798 crore has been allocated for capacity expansion projects under execution across Western Railway (WR) and Central Railway (CR) in the interim budget presented by Union finance minister Nirmala Sitharaman. These include a new Panvel-Karjat suburban corridor, quadrupling of Virar-Dahanu line, Kalyan-Badlapur quadrupling, and laying the fifth and sixth lines from Borivli to Virar.

These projects are being carried out under the Mumbai Urban Transport Projects (MUTP) initiative through an agreement between ministry of railways and Maharashtra. Cost is being shared on a 50:50 basis. After the state contributes its share, total amount available for MUT, 3 and 3A will be Rs 1,596 crore. The other big takeaway is the Rs 25,000-crore allocation to the National High Speed Rail Corporation (NHSRCL) for the Mumbai-Ahmedabad bullet train. In the last fiscal, the NHSRCL received Rs 19,592 crore. The corporation has acquired land and awarded all the civil work contracts for the 508-km long corridor. 40% of the work is complete.

Accelerating India: The Complete Bullet Train Project Guide

Accelerating India: The Complete Bullet Train Project Guide

Ahmedabad-Mumbai bullet train sees red signal between Sabarmati, Kalupur timesofindia Feb 4, 2024

AHMEDABAD: The Ahmedabad-Mumbai bullet train project has encountered a hurdle as an impasse between the National High-Speed Railway Corporation and Western Railway (WR) has suspended work on the Ahmedabad section. WR authorities have yet to grant permission to build the viaduct, stalling progress since October 2023.

Sources in the National High-Speed Rail Corporation
Limited (NHSRCL) said, "The construction work from
Sabarmati station to Kalupur station in Ahmedabad has
come to a standstill due to the railways' failure to
authorize a block for the third line passing through this
2km stretch." Talks with WR officials have taken place,
emphasizing the need to block the third line as it passes
very close to the high-speed line.

Bullet train project gets new head



-: Feb 05, 2024

head of India's Bullet train project on Monday. A statement from National High-Speed Rail Corporation Limited (NHSRCL) said Gupta served as the Principal Executive Director (Gati-

Shakti) at the Railway Board.

Senior railway service officer Vivek

Kumar Gupta took charge as the new

Representative Image

In his earlier role, Gupta was responsible for the integrated functioning of Civil (Works, Project Monitoring & Station Development), Electrical (RE),

Signal & Telecommunication, Traffic, Finance, Planning, and Economic Directorates.

National High-Speed Rail Corporation Limited (NHSRCL) is a Special Purpose Vehicle with equity participation by Central Government through Ministry of Railways and two State Governments of Gujarat and Maharashtra. It is

Accelerating India: The Complete Bullet Train Project Guide

Progress On Mumbai-Ahmedabad Bullet Train Satisfactory: Railway Minister Ashwini

timesnownews.com/Feb 10, 2024,

New Delhi: At Global Summit 2024, Union minister Ashwini said that the work on Mumbai-Ahmedabad bullet train project is going at a good speed. The National High-Speed Rail Corporation Ltd (NHSRCL) has started the construction of undersea rail tunnel for the Mumbai-Ahmedabad bullet train project. This significant development marks a milestone in India's infrastructure, as it embarks on its first-ever undersea rail tunnel spanning 7 kilometers.

Situated between Bandra Kurla Complex (BKC) in Mumbai and Shilphata in Thane, Maharashtra, the 21-kilometer tunnel is a testament to modern engineering prowess. Employing advanced techniques such as the Tunnel Boring Machine (TBM) and the New Austrian Tunneling Method (NATM), the project heralds a new era in Indian rail infrastructure.

The Mumbai-Ahmedabad bullet train project, overseen by NHSRCL, aims to revolutionize travel between the two major cities. With the commencement of this undersea tunnel construction, the project takes a significant step forward towards its completion.

This venture holds promise for enhanced connectivity, reduced travel times, and bolstered economic opportunities for the region. The undersea rail tunnel is expected to redefine the landscape of transportation in India, setting a precedent for future infrastructure projects.

As construction progresses, experts anticipate the Mumbai-Ahmedabad bullet train project to set new standards in high-speed rail travel, marking a transformative moment in India's transportation sector.

Mumbai-Ahmedabad 'Bullet Train' update: Railways Minister Ashwini Vaishnaw shares video revealing 10 features

1 min read • 13 Feb 2024, 08:35 AM IST

livemint.com/

Ashwini Vaishnaw, the Union Minister for Railways,
Communications, Electronics & Information Technology, on
Monday took to microblogging platform X to share an animated
video of the <u>Mumbai-Ahmedabad</u> train corridor also known as
'Bullet train.'

Captioning it "Stay tuned for #BulletTrain in Modi 3.0!",
Vaishnaw's post ahead of the upcoming elections, seemed like yet
another poll promise in the Indian railways, if Prime Minister
Narendra Modi and his cabinet is voted back to power for a third
straight term, in the upcoming 2024 Lok Sabha Elections.

The Mumbai-Ahmedabad corridor has been making steady progress since work began in November 2021. Last year, the Railway minister announced that the first bullet train section in India - a 50km stretch between **Bilimora** and Surat in Gujarat - will be completed in August 2026.

High-Speed Highways: India's Bullet Train Narrative

Mumbai-Ahmedabad bullet train project: Know all about 21 km long single tube tunnel from BKC to Shilphata indianexpress.com/ ebruary 13, 2024 1

The Mumbai-Ahmedabad bullet train project, overseen by the National High-Speed Rail Corporation Ltd (NHSRCL), has commenced the construction of a 21 kilometer tunnel between Bandra Kurla Complex (BKC), Mumbai and Shilphata, Thane in Maharashtra.

This is India's first undersea rail tunnel, spanning 7 kilometers within this stretch, between Shilphata and BKC, and utilizing advanced methods such as Tunnel Boring Machine (TBM) and New Austrian Tunneling Method (NATM).

This single tube tunnel will accommodate twin tracks for both up and down lines, alongside the construction of 39 equipment rooms at 37 locations along the tunnel route. Utilizing TBMs with a 13.6-meter cutter head diameter, significantly larger than the usual 5-6 meter diameter cutter heads employed in urban tunnels, the project aims to cover approximately 16 kilometers of the tunnel length using three TBMs, while the remaining 5 kilometers will be constructed using the NATM.

A Glimpse Of Mumbai-Ahmedabad Bullet Train That Promises 500 KM In 2 Hours



Recently, Railway Minister Ashwini Vaishnaw took to social media to share an animated glimpse on the Mumbai-Ahmedabad Bullet train corridor project. This marvel of modern engineering promises to shrink the distance of over 500 kms between India's bustling financial hub and its vibrant cultural centre, slashing travel time from a tedious 6.5 hours to a mere 2 hours.

Recently, Railway Minister Ashwini Vaishnaw took to social media to share an animated glimpse on the Mumbai-Ahmedabad Bullet train corridor project. This marvel of modern engineering promises to shrink the distance of over 500 kms between India's bustling financial hub and its vibrant cultural centre, slashing travel time from a tedious 6.5 hours to a mere 2 hours.

Speed of Progress

"Testament To Engineering": Video Shows Tunnel To Be Used For India's First Bullet Train

The Mumbai-Ahmedabad bullet train corridor has been making steady progress since work began in November 2021. Every now and then, the Railways Ministry shares several updates to keep followers up to date with the developments happening in the project. On Monday, National High-Speed Rail Corporation Limited (NHSRCL) which has been tasked with overseeing the ambitious project shared a video of a tunnel for the bullet train that will pass through two states.

NHSRCL took to X and shared an aerial video of the tunnel which is flanked by the states of Maharashtra and Gujarat. "The MAHSR #bullettrain project tunnels through, connecting Maharashtra and Gujarat. A testament to engineering ingenuity that brings states closer on the route to progress," the caption of the video read.

Mumbai-Ahmedabad Bullet Train: Tunnel With One End In Gujarat, Other In Maharashtra | VIDEO

timesnownews.com, Feb 20, 2024,



Mumbai: The Mumbai-Ahmedabad bullet train project, eagerly awaited across the nation, is rapidly taking shape. Passing through Gujarat and Maharashtra, it will connect key economic hubs like Mumbai, Surat, Vadodara, and Ahmedabad.

Recently, the National High-Speed Rail Corporation Limited (NHSRCL), overseeing the project, shared a video on X (formerly Twitter), showcasing a tunnel situated between Maharashtra and Gujarat. The aerial footage highlighted the states flanking the tunnel, symbolizing the unity in progress.

Union Railways Minister Ashwini Vasihnaw unveiled the vision for the Mumbai-Ahmedabad train corridor through an animated video on social media. This corridor, popularly known as the 'Bullet train,' promises to revolutionize travel, cutting the journey time from Mumbai to Ahmedabad to just 2 hours.

Covering a distance of 508 km, the bullet train is expected to achieve a maximum speed of 320 km per hour, a significant advancement in India's railway infrastructure.

Key features of the project include the installation of a slab track system, an earthquake detection system, and the construction of 24 river bridges, 28 steel bridges, and 7 mountain tunnels.

Speed of Progress: India's Bullet Train Digest

May not need foreign tech partner for future bullet train project: Vaishnaw 1: Feb 23 2024 | 11:40 PM IST

India currently does not have indigenous capabilities to build HSR projects, and the MAHSR corridor is being built in collaboration with Japan, with an overseas loan

There would soon come a time when high-speed rail (HSR) or bullet train projects might become fully indigenous, Union Railway Minister Ashwini Vaishnaw on Friday said after overseeing a triggered blast in Vikhroli here as part of the Mumbai-Ahmedabad bullet train project which is expected to be completed by 2028.

The minister inspected the progress of the terminal station of the corridor at Bandra Kurla Complex in Mumbai, which is being constructed with a "depth equaling 10 storeys". The station will also have provisions for possible vertical expansion of up to 30 storeys, the minister said while blaming the Uddhav Thackeray-led previous state government for the project's delays in Maharashtra.

Speed of 320, 21 km underground, 7 km undersea, Features, videos of India's first bullet train

Out of the total 508-km-long project between Mumbai and Ahmedabad, viaduct has been raised on a length of rivers on the route and bridges have been built over five of them. February 23, 2024:

The foundation stone of the project was laid by Prime Minister Narendra Modi and his Japanese counterpart Shinzo Abe on September 14, 2017. This train corridor is one of Prime Minister's pet project. Once completed, it will put India into the list of elite nations running high speed rail. Let's take a look at some key features of India's first bullet train project.

- The total length of the Mumbai-Ahmedabad bullet train corridor is 508 km out of which 348 km will fall in Gujarat and 156 km in Maharashtra.
- The bullet train will have an operational speed of 320 km per hour.
- The high-speed train corridor will have a total of 12 stations. Out of these 12 stations, eight will be in Gujarat and four in Maharashtra.
- The train will take approximately 2.07 hours to travel between Mumbai and Ahmedabad with limited stops while 2.58 hours with total stops.

Rails to the Future: India's Bullet Train Chronicles

Turning dream into reality: Bullet train moves from

vanity to vision

1: Feb 25 2024 | 11:24 PM IST



On a quiet day, it can take even the slickest of drivers half an hour to cross the Bandra Kurla Complex (BKC) area in Mumbai. On a busy day, the jam-packed roads of the city's up and coming commercial hub try the patience of every commuter — even going by Mumbai's high tolerance levels for traffic snarls.

Between the construction of the BKC station of the Mumbai Metro Aqua Line, flyover projects in the vicinity, and rapid development of real estate in the area, there has been little respite for

Bullet train project will boost regional economy, help India become self reliant in tech: Vaishnaw Updated: Feb 24,

Mumbai: Railway minister Ashwini Vaishnaw on Friday said the Mumbai-Ahmedabad bullet train project will have a multiplier effect on the economy and spur development in the entire region bringing more businesses to Maximum City. Blaming the earlier Uddhav Thackrey govt in Maharashtra, he said the project would have seen much faster progress had the then govt expedited permissions and not "created hurdles" in the land acquisition process.

"We have many cities having a population of over 1 crore.

Rails to the Future: India's Bullet Train Chronicles

Lok Sabha elections 2024: BJP to focus on bullet train projects in poll manifesto, says report

1 min read • 18 Mar 2024, 04:33 PM IST



BJP is likely to include bullet train corridors in its Lok Sabha 2024 manifesto.

In a bid to upgrade India's railway infrastructure and boost connectivity and speed, the Bhartiya Janata Party (BJP) is likely to include a promise of multiple high-speed rail or bullet train corridors in the Lok Sabha 2024 manifesto. The party is considering including several HSR projects as a key promise for the next five years, reported Business Standard citing sources.

Rising Bharat 2024: Rail Minister Ashwini Vaishnaw Reveals When India's First Bullet Train Will Start Running : MARCH 19, 2024,

The much-awaited bullet train project will be ready by 2026, with services between Surat and Bilimora, Railways minister Ashwini Vaishnaw said at the Rising Bharat Summit 2024 in New Delhi on Tuesday.

Vaishnaw said the train will not be just a mode of transportation but will connect the economies of cities between Mumbai and Ahmedahad.

"It is not just a means of transportation. When it runs, it will connect the economy of all the cities around it... Mumbai, Thane, Vapi, Surat, Vadodara, Anand and Ahmedabad will become a single economy zone... The train will be ready by 2026... The train will run first between the Surat-Bilimora section," the minister said.

Velocity Vision: India's Bullet Train Transformation

Ahmedabad-Mumbai bullet train to be launched in 2026: Railway Minister Ashwini vaishnaw



India's Railway Minister Ashwini
Vaishnaw said on Tuesday that the
Ahmedabad-Mumbai bullet train
will be launched in 2026. "India's
first bullet train will be ready in
2026, and will run in one section

from Surat," the minister said.

He said significant progress has been made in the construction of various stations and work has begun on the sea tunnel through which the train will reach Mumbai from Thane.

Land acquisition for bullet train project to be completed by March-end 1: Mar 06, 2024, 11:49:00 PM IST

Synopsis

While land acquisition and possession has been completed in Gujarat, and Dadra and Nagar Haveli, possession of over 15% of the total land requirement is yet to be handed over to the National High Speed Rail Corporation Limited (NHSRCL) in Maharashtra. In all, 959.04 hectares (ha) land has been acquired in Gujarat while 430.45 ha falls in Maharashtra.



Representative Image

The <u>Centre</u> is targeting to complete <u>land acquisition</u> for the ₹1 lakh crore <u>bullet train project</u> by this month-end, officials said. They said <u>Maharashtra</u> Chief Secretary has directed all <u>district</u> <u>collectors</u> in the state to handover land for the project under this <u>revised</u> <u>timeline</u>.

In addition, they said, <u>transmission line shifting</u> work is to be completed by March 2024-end as well. The bullet train project spans across **Gujarat**, Dadra

2026: First bullet train launch

Deal to procure 24 bullet trains from Japan to be concluded by month-end Mar 7, 2024,

NEW DELHI: India will seal the deal for procuring 24 E5
Series Shinkansen trains (bullet trains) from Japan by this
month end. Going by the accelerated pace of progress, the
railway is confident of the first train operation starting in
June-July 2026 in Gujarat.

Sources said the National High Speed Rail Corporation Ltd (NHSRCL) will bid out all contracts, including the procurement of trains and operating system, by Aug 15 this year.

First bullet train service will be launched by 2026: Ashwini Vaishnaw

Ashwini Vaishnaw said the Mumbai-Ahmedabad bullet train project will prove to be a corridor of economic prosperity, transforming towns and cities along the route.

Vaishnaw, the Union Minister for railways, electronics and information technology, and communications, was speaking at News18's Rising Bharat Summit on March 19.

Union Railway Minister Ashwini Vaishnaw at the Rising Bharat Summit has announced that the country's first bullet train service will be launched by 2026 between Ahmedabad- Mumbai. "India's first bullet train will be ready in 2026, and will run in one section from Surat," Ashwini Vaishnaw said.

Ashwini Vaishnaw said the Mumbai-Ahmedabad bullet train project will prove to be a corridor of economic prosperity, transforming towns and cities along the route and becoming a learning experience for future initiatives.

Velocity Vision: India's Bullet Train Transformation

Deal to procure 24 bullet trains from Japan to be concluded by month-end Updated: Mar 7,

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Sources said the National High Speed Rail Corporation Ltd (NHSRCL) will bid out all contracts, including the procurement of trains and operating system, by Aug 15 this year.

'Will change face of Indian Railways', Union Minister makes big announcement; India's first bullet train will be launched in 2026, says Ashwini Vaishnaw Tuesday 19 March, 2024 | 8:51 PM

"India's first bullet train will be ready in 2026. Indian Railways is making elaborate plans for the bullet train. It requires hard work and open communication at all levels," the minister said.

"In other countries, automatic train protection (ATP) was introduced way back in the 1980s. Those who ruled India at that time did not implement any of that in the country. In 2016, the Narendra Modi government introduced automatic train protection for the first time in the country. In the last ten years, the government has laid the foundation for a developed India," he said.

Rs 11 lakh cr investment, a super app and more bullet trains: Modi govt's mega plan for world-class Indian Railways LAPT 09, 2024,

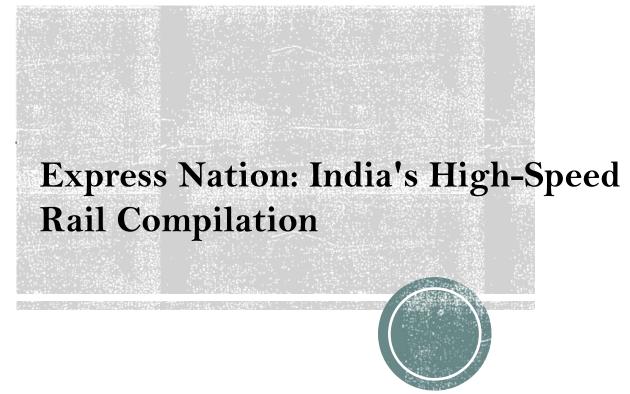


Indian Railways is gearing up for a transformative 100-day plan post-Lok Sabha polls 2024, focusing on passenger-friendly measures. The plan includes a 24-hour ticket refund scheme, a comprehensive "super app" for passengers, and the launch of the final stretch of the Udhampur-

Srinagar-Baramula Rail Link project.

Additionally, sleeper versions of Vande Bharat trains are in the works, along with the introduction of India's first vertical lift railway bridge and plans to expedite the Ahmedabad-Mumbai bullet train project.

According to several news reports, ministries are gearing up to implement various "people-friendly" measures following Prime Minister Narendra Modi's directive to prepare a 100-day plan for the new government. Indian Railways intends to introduce a 24-hour ticket refund scheme, replacing the current three-day process, and launch a comprehensive "super app" offering multiple



Track Forward: The Definitive Guide to India's Bullet Trains

India's 1st bullet train set to run in 2026: Railways Minister

"More than 290 kms of work has already been done. Bridges have been built over eight rivers. Work is going on at 12 stations. The stations have also come at the same level so that the work is nearing completion," Ashwini Vaishnaw informed.

"The work is going on at two depots. The work is going on at a very fast pace with the complete target of opening its first section in 2026," the Union Minister told IANS.

The Bullet Train is a very complex project. The work on it started in 2017 and it took almost two-and-a-half years to complete the design.

"Its design is very complex because the vibrations are very strong at the speed at which the train has to run," informed the Union Minister.

"How to manage those vibrations? If we have to take current from above electricity, then how to take that current? Everything like speed, aerodynamics etc. has to be looked at very carefully and the work started immediately after that," Ashwini Vaishnaw elaborated.

In between, there was a little setback due to the Covid pandemic.

PM promises 3 bullet trains in north, east, south India as part of BJP manifesto

: Apr 14, 2024 11:08 IST

As part of the BJP's poll manifesto for the Lok Sabha elections, Prime Minister Narendra Modi has promised to expand bullet train services in the country.

Prime Minister Narendra Modi on Sunday promised to expand bullet train services in the country, adding that three new trains will run in north, east and south India. As the Prime Minister unveiled the BJP's poll manifesto for the 2024 Lok Sabha elections, he also said that a survey on this will begin soon.

"Today the work on the Ahmedabad Mumbai Bullet Train is going on in full swing and is almost reaching completion. In the same way, one bullet train will run in North India, one bullet train in South India and one bullet train in Eastern India. Survey work for this will also start soon," the Prime Minister said after he unveiled the BJP's 'Sankalp Patra' at the party's headquarters in Delhi.

Full Speed Ahead: India's Bullet Train Revolution

BJP manifesto 2024: Super app, bullet train and other key promises that formed party's vision for Indian Railways

Updated: Apr 15, 2024, 1



Ahead of the major electoral battle in the country, the **Bharatiya Janata Party** (**BJP**) has unveiled its manifesto, promising an array of commitments for the development of railways and other infrastructural initiatives if it assumes power after the Lok Sabha polls.

BJP's Focus on Infrastructure

Prime Minister Narendra Modi

released the BJP's Lok Sabha manifesto with a special focus on the poor, youth, farmers, and women. He emphasized the need for a stable government with full majority during uncertain times globally.

Now, India is shooting for home-made bullet trains :Apr 17, 2024.

Synopsis

India is developing a home-built bullet train exceeding 250 kmph, using Vande Bharat platform technology by ICF, Chennai. The project integrates Indian tech and domestic manufacturing, funded by JICA with completed pier work and land acquisition for the Mumbai-Ahmedabad High Speed Rail project.



Representative Image

New Delhi: India has begun work on a home-built bullet train that will exceed 250 kilometres per hour (kmph), a top government official told ET. The official said it will be faster than any of the trains now running on the Indian Railways.

"It is being built on the <u>Vande Bharat</u> platform that can already clock a

maximum speed of 220 kmph," the official said.

Express Nation: India's High-Speed Rail Compilation

Mumbai-Ahmedabad bullet train bridge to be completed by 2024. See photos 14 Apr 2022

India's first longest-ever bridge over the Narmada river is set to get completed soon. According to Pramod Sharma, Managing Director, National High-Speed Rail Corporation (NHSRCL), the construction of 1,260 metre <u>long bridge</u> is underway and the goal is to complete the project by June 2024.

The bridge in Bharuch city of Gujarat is set to be the longest bridge on the 508 km Bullet Train corridor.

The trial run for the entire Gujarat section of the <u>Mumbai-Ahmedabad high-speed train corridor</u> will begin in the year 2026 and services for people will be rolled out by 2027, SC Agnihotri, Managing Director of NHSRCL said.

Atmanirbhar bullet trains a reality soon: Speed, timeline, routes and details

ET Online | Apr 17, 2024, 04:08:34 PM IST

1/5 India begins work on homemade bullet trains

India has started building its own bullet train, a senior government official told ET. The Indian Railways' Integral Coach Factory (ICF) in Chennai is where the designs are currently being prepared.

Around the world, high-speed trains are defined as those that travel at speeds greater than 250 kmph, like the Japanese Shinkansen and the French TGV.

2/5 Faster than any train

The bullet train will travel at speeds greater than 250 kmph, the official further told ET. According to the official, it will be quicker than any train currently operating on the Indian Railways. The train designs are being prepared at the Indian Railways' Integral Coach Factory (ICF) in Chennai.

3/5 Routes

The domestically developed Vande Bharat trains are made by ICF. The made-in-India bullet trains will run on the north, south, east corridors that were recently announced. "The new corridors will be using more Indian tech and domestic manufacturing," the official was quoted as saying.

Track Forward: The Definitive Guide to India's Bullet Trains

Anand Bullet train station taking shape

Apr 19, 2024,

In addition to the existing connectivity of the station through a link road with NH-64, NHSRCL has acquired an additional strip of land along the viaduct for connecting the station directly to NH-64 on one side and SH-150 on the other side. The Multimodal Traffic Integration Plan ensures smooth, fast, safe, and comfortable movement of all vehicles (public & private). Due consideration has been given to pedestrian & Intermediate Public Transport (IPT) movement (like auto-rickshaws, etc.) in the station area while planning the parking and pick-up/drop-off facilities.

Good News: Vande Bharat Variant Bullet Train Coming Soon to Set Speed Milestones Updated April 17th, 2024

New Delhi: India is all set to introduce its very own bullet train, under the Vande Bharat initiative. With this, India will revolutionise travel with the train reaching 0 to 100 kmph in just 52 seconds.

Heralding an era of rapid speed and bolstering India's rail infrastructure this bullet train draws inspiration from the success of the Vande Bharat trains, renowned for their swift travel.

With high technology and expertise, India is poised to join the race of nations boasting cutting-edge rail networks, like the French TGV and the Japanese Shinkansen high-speed trains.

This development comes amid the 100-day plan post-election 2024 in Indian Railways. It includes a focus on various passenger-friendly measures, like a 24-hour ticket refund scheme, a comprehensive super App for various railways facilities, three economic corridors and sleeper Vande Bharat trains., government officials told news agency ANI.

Accelerating India: The Complete Bullet Train Project Guide

India's first bullet train: National High-Speed Rail Corporation Ltd seeks made-in-India tech solutions to build infra

As the construction of the bullet train project picks up, highly sensitive geotechnical monitoring instruments are being deployed to ensure the safety of civil structures and service utilities at and around the construction sites in Maharashtra for the bullet train corridor.

Looking to complete the country's first bullet train project between Mumbai and Ahmedabad by 2026, the National High-Speed Rail Corporation Limited (NHSRCL), which is implementing the project, is seeking indigenous technological solutions to build the infrastructure under the 'Make-in-India' vision.

As the construction of the bullet train project picks up, highly sensitive geotechnical monitoring instruments are being deployed to ensure the safety of civil structures and service utilities at and around the construction sites in Maharashtra for the bullet train corridor.

Delayed deadlines, inflated costs of the bullet train makes it a costly liability, alleges Opposition 1-May 21, 2024

With an annual outgoing EMI of ₹6,802 crore but a lower estimated revenue, the Mumbai-Ahmedabad bullet train project is set to become a big liability to the exchequer

A thread posted by Congress Kerala's twitter handle says that in 2013, PM Modi announced that a bullet train project connecting Mumbai to Ahmedabad will be ready by 2022, a decade later it is only 30% complete, and the revised deadline is now 2028.

The Congress has alleged that the bullet train will become the biggest liability of India once it is launched. "The initial cost estimation for the project was ₹1.08 lakh crore for constructing 508 kms with 12 stops, cost was later revised to ₹1.65 lakh crore but it is expected to cost ₹two lakh crore when completed, which is ₹398 crore per km," the tweet analyses.

Accelerating India: The Complete Bullet Train Project Guide

Mumbai-Ahmedabad Bullet Train: Jaishankar opens up on 'benefits' of the project May 14, 2024

"It will help in decongestion and fasten the pace of urbanisation" Jaishankar said speaking at an event titled 'India's Vishwabandhu Approach to Global Relations' at the Constitution Club in Mumbai on Monday.

"Actually what a bullet train does is it reduces the distance so much that somebody living 150 km away from Mumbai can come into Bandra Kurla complex in 20 minutes. Think about housing, real estate, and decongestion. See how urbanisation will spread. When we started this project there was a debate," he added.

He further said that collaborating with Japan will help in moving the project faster.

"So I mention bullet train because it's not any, you know...it will take us a long time. If you collaborate with someone, it will move very much faster. But if you are smart, you will collaborate, absorb, and innovate also," Jaishankar added.

Construction of 21-km tunnel in Mumbai-Ahmedabad Bullet Train Project expedited

Excavation of Additionally Driven Intermediate Tunnel, which was a six month long exercise will pave way for the 21-km tunnel construction

- May 27, 2024 C

The 21 km long tunnel will be a single tube tunnel to accommodate two tracks meant for up and down tracks of the bullet train. To construct this tunnel, Tunnel Boring Machines (TBMs) with cutter heads of 13.6 metre diametre will be used.

NHSRCL has targeted to complete bullet train project by 2028. The train is pegged to reduce travel time between Mumbai to Ahmedabad to three hours.

The under construction three shafts at BKC, Vikhroli, and Sawli will facilitate the construction of 16 km long tunnel through Tunnel Boring Machines.

The Complete Bullet Train Project Guide

Indian railways to introduce a bullet train between Patna-New Delhi; travel time to reduce by 3 hours

In a recent update, the Indian Railways are planning to introduce a bullet train service between Patna and New Delhi. This initiative, an extension of the Delhi-Mumbai high-speed rail project, aims to reduce the journey time between Patna and Delhi to an astonishing 3 hours! It is going to be a significant improvement from the current 17-hour train ride.

Spanning over 1050 km, the new high-speed rail corridor aims at covering prime cities in Bhar such as cities like Buxar, Patna, and Gaya, boosting connectivity across central India. The route's specifics, including station locations, are still being finalised, with potential sites in Bihta or Phulwari Sharif earmarked for Patna's dedicated bullet train station.

Mumbai-Ahmedabad bullet train project: Construct on Dhadhar river in Gujarat completed June 22, 2024

Bullet Train construction update: Of 21 km of tunnel in the bullet train project, 16 km will be excavated using to (TBMs), while NATM will be used for the remaining 5 km.

The National High-Speed Rail Corporation Ltd (NHSRCL) said the work is being carried out as part of package C3 of the bullet train project extending from Shilphata to Zaroli village on the Maharashtra-Gujarat border. There are a total of 24 river bridges on the Bullet Train Corridor (Gujarat and Maharashtra), of which 20 are in Gujarat and 4 in Maharashtra. Construction of seven river bridges at Par (320 m, Valsad district), Purna (360 m, Navsari district), Mindhola (240 m, Navsari district), Ambika (200 m, Navsari district), Auranga (320 m, Valsad district)), Vengania (200 m, Navsari district) and Mohar River (160 m, Kheda district) have already been completed.

The main features of Dhadhar River Bridge are:

- Length: 120 meters
- Consists of 3 full span girders (40 meters each)
- · Height of pillars 16 meters to 20 meters
- 4 meter and 5 meter diameter circular pillars (4 nos.)
- . This bridge is between Bharuch and Vadodara bullet train stations.

The Complete Bullet Train Project Guide: 130km long

Mumbai-Ahmedabad Bullet Train Project Hits Another Milestone: 120m Bridge Built Over Dhadhar River in Gujarat Updated Jun 23, 2024, 0

India's Mumbai-Ahmedabad Bullet Train project has reached a new milestone with the construction of a 120-meter bridge over the Dhadhar river in Gujarat's Vadodara district. The National High Speed Rail Corporation Ltd (NHSRCL) announced that this bridge, situated between Bharuch and Vadodara, consists of three 40-meter full-span girders and several circular piers.

Ahmedabad: India's ambitious Mumbai-Ahmedabad Bullet Train project has achieved another feat by constructing a bridge over the Dhadhar river in Gujarat's Vadodara district. This has brought the dream of running the country's first bullet train between Mumbai and Ahmedabad closer to fruition. The National High Speed Rail Corporation Ltd (NHSRCL) on Saturday stated that the 120-meter bridge is between Bharuch and Vadodara.

About Mumbai-Ahmedabad Bullet Train Project

The Mumbai Ahmedabad High-Speed Rail (MAHSR Bullet Train) project is a 508.17 km underconstruction high- speed rail line which will connect Mumbai with Ahmedabad through 12 stations. The estimated cost of the project is INR 1,08,000 Cr (USD 17 billion) and is being executed with Official Loan Development (ODA) Loan assistance from Japan International Cooperation Agency (JICA).

130 m long 'Make in India' steel bridge launches over Delhi-Mumbai National Expressway for Bullet Train Project

This 3000 MT of steel bridge of 18m in height and 14.9m in width has been fabricated at the workshop in Wardha, Maharashtra and was transported on trailers to the site for installation. It requires tremendous efforts to pull such a heavy girder which is likely to be the longest over any national highway in the country.

The bridge fabrication utilized approximately 124,246 Nos. of Tor-Shear Type High Strength (TTHS) bolts with C5 system painting and metallic spherical bearings, all designed for a 100-year lifespan. The steel bridge was assembled at the site at a height of 15m from the ground on temporary trestles and was pulled with automatic mechanism of 2 number of semi-automatic jacks, each of capacity of 250 ton using mac-alloy bars.

The project is being executed meticulously, maintaining the utmost standards of safety and engineering excellence. Leveraging Japanese expertise, India is increasingly utilizing its own technical and material resources to build infrastructure under the "Make in India" initiative. The steel bridge for the Bullet Train Project is a major example of this effort.

NHSRCL achieves another milestone: The Complete Bullet Train Project Guide

Bullet Train Completion Date Depends On...: What Railways Said In RTI Reply

The National High Speed Rail Corporation Limited (NHSRCL), which is constructing the 508 km long corridor, said this in response to an application under the Right to Information Act.

India News | Press Trust of India | Updated: April 24, 2024 8:09 pm IST

New Delhi: The Indian Railways is unable to assess the completion date of the country's first bullet train project because all work tenders have not been awarded yet.

The National High Speed Rail Corporation Limited (NHSRCL), which is constructing the 508 km long corridor, said this in response to an application under the Right to Information Act.

Madhya Pradesh-based Chandra Shekhar Gaur sought to know if the NHSRCL is in a position to give a final date for the completion of the whole project though an application under the RTI.

Bullet Train Project in India: NHSRCL achieves another milestone on Mumbai-Ahmedabad High Speed Rail Corridor

India has expertise in fabricating steel bridges for heavy haul and semi-high-speed trains which run between 100 and 160 kmph. (Image: NHSRCL/ET NOW NEWS)

Indian Railways, Bullet Train Latest Update: The National High Speed Rail Corporation Limited (NHSRCL) has achieved another milestone. The NHSRCL is working on the completion of India's first bullet train project between Mumbai and Ahmedabad. The 508-km-long MAHSR corridor is spread over two states - Maharashtra and Gujarat and 1 Union Territory - Dadar and Nagar Haveli.

The NHSRCL is developing the project in close coordination with the Japanese authorities and maintaining the utmost standards of safety and engineering excellence. It is also utilizing its own technical and material resources to build infrastructure under the "Make in India" initiative.

Speed of Progress: India's Bullet Train Digest

Modi 3.0: Continued capex push for infra, bullet train among priorities Jun 09 2024 |

The ever-changing dynamics of a coalition government could alter the order of priorities for the new ministers handling the two cornerstones of Prime Minister Narendra Modi's economic policy – infrastructure and railways. Insiders expect a capex policy push to continue at a similar pace, with minor inter-sectoral changes in priority.

The new railway minister will oversee the execution of several important initiatives in the Centre's 100-day agenda, such as overhauling capacity and safety infrastructure, bringing bullet trains to India, and improving the digital user experience with a super app.

The new government's policies on railways may see a higher focus on areas like direct employment generation for the national transporter, which had been outsourcing non-core jobs over the past decade to keep its rising pension bills in check.

'Vande Bharat Bullet Train' soon? Indian Railways looks to roll out 'Make in India' bullet trains with 250 kmph speed this year

'Make in India' bullet trains on Vande Bharat platform! The Indian Railways has assigned the Integral Coach Factory (ICF) the task of domestically producing two standard-gauge bullet trains within the current fiscal year. This decision comes as negotiations with Japanese suppliers encountered obstacles due to pricing disagreements, according to officials.

According to an ET report by Twesh Mishra, for the first time, India will manufacture a train capable of reaching a maximum speed of 250 kilometers per hour (kmph). International recognition with India: Bullet Train Digest

Bullet train to have automatic rainfall monitoring system Jun 15, 2024,

Six instrumented rain gauge stations are proposed to be installed along the Mumbai-Ahmedabad corridor in Thane and Palghar districts, specifically near vulnerable earth structures, mountain tunnel entrance or exit and tunnel portals among others.

The system provides two critical measurement values including hourly rainfall (the amount of rainfall recorded in the last hour) and the 24-hour rainfall (the cumulative rainfall over the past 24 hours).

PM Modi, Japanese PM pledge to speed up bullet train project

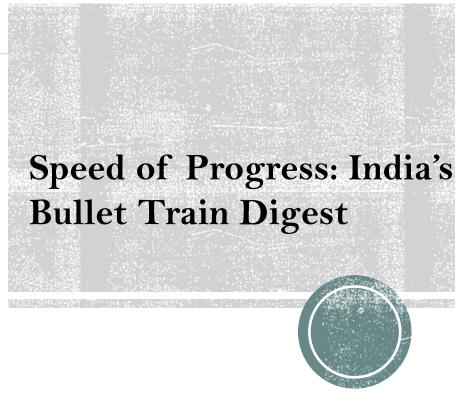
NEW DELHI: PM Narendra Modi held a bilateral meeting with his Japanese counterpart Fumio Kishida, affirming that ties with Japan will continue to receive priority in his third term.

Govt said in a statement that India and Japan are collaborating in several important areas including the landmark Mumbai-Ahmedabad high speed rail project which, it added, will usher in the next stage in mobility in India.

Bullet train progress takes center stage in Modi-Kishida bilateral talks Jun 16, 2024,

Ahmedabad high-speed rail project, describing it as a significant step forward for India's mobility infrastructure. Despite facing a five-year delay, Japanese authorities confirmed earlier this year that work on all sections has commenced and expressed satisfaction with the progress. They assured that all uncertainties regarding the project have been resolved.

In addition, both leaders discussed Japan's planned 5 trillion yen investment in India over the 2022-2027 period. They also reviewed the India-Japan Industrial Competitiveness Partnership, which aims to enhance manufacturing cooperation between the two nations.

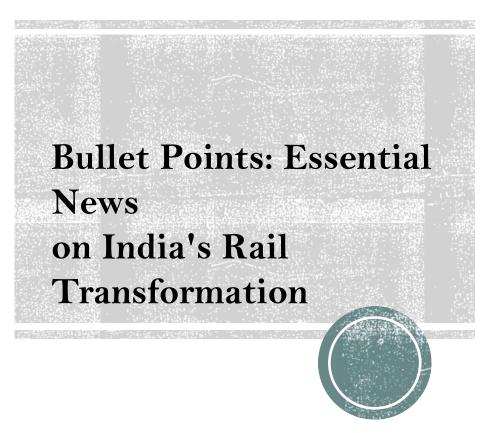




Work begins in Thane on country's first undersea rail tunnel for bullet train

Thane, India - July 19, 2024: High speed railway (bullet train) tunnel from Ahmedabad to BKC Mumbai is in progress at Ghansoli parsik hill, in Thane,in Mumbai, India, on, Friday, July 19, 2024. (Praful Gangurde /HT Photo)

MUMBAI: Even as Indian Railways battles back-to-back derailments, it is making rapid strides in the progress of the country's first high-speed rail corridor connecting Mumbai with Ahmedabad. In Mumbai, the National High Speed Rail Corporation Limited (NHSRCL) is carrying out excavation work for the construction of the sole underground bullet train station at Bandra Kurla Complex (BKC) and the first dual rail line underground tunnel for the ₹1.08-lakh-crore rail project.





Railway to Tomorrow: India's High-Speed Vision

Mumbai-Ahmedabad Bullet Train Progress: NHSRCL sets new pace! Places 290 girders, 380 more to go – Watch here

The Mumbai-Ahmedabad Bullet Train project is moving forward like a comet, blazing with unstoppable momentum. The National High-Speed Rail Corporation Limited (NHSRCL) has achieved a significant milestone with the full span box girder launching gantry, gracefully winding its way back to the casting yard, shifting gears with finesse. This gantry has placed 290 sleek girders spanning 12 kilometers in one direction. Now, poised for the next phase, this gantry gears up to install an additional 380 girders in the opposite direction, marking a decisive leap towards an accelerated future.

The NHSRCL recently shared a video of an awe-inspiring voyage with the full span box girder launching gantry, maneuvering back to the casting yard, a symphony of precision

Indian Railways to launch first Hydrogen train this year, aims for 50 by 2047

Speaking at FICCI's Future Rail India 2024 conference, Anil Kumar Khandelwal, Member (Infrastructure) of the Railway Board at the Ministry of Railways said, "Our first hydrogen train will be coming this year, and we are planning to launch about 50 by 2047."

Expanding further on the advancements in safety and infrastructure, Khandelwal detailed the expansion of the Indigenous train protection system, Kavach. "We have already finalized our Kavach final specification on July 16th for Version IV. Now, we are launching it in a big way throughout the country," he said. The system is currently operational over 1,400 kilometres, with expansion work ongoing on 3,000 kilometres of the Delhi-Mumbai and Delhi-Howrah routes. Bids for an additional 3,200 kilometres have been invited, with plans to extend by another 5,000 kilometres.

Express India: The Complete Bullet Train Collection

What's For Bullet Train in Sitharaman's Budget

Indian Railways was allocated Rs 2.40 lakh crore in Union Budget 2023-2024 and Rs 2.52 lakh crore in Interim Budget 2024-2025. This marks a whopping 75% increase from the fiscal 2022 allocation.

Until 2017, a separate budget was maintained for Indian Railways besides the Union Budget. However, this norm changed following recommendations by the government's think tank, NITI Aayog. The decision to merge the two budgets was taken on the basis of several factors. Firstly, the significance of railway revenue had declined over the years as other sectors grew, reducing its proportion in the overall budget. NITI Aayog outlined this pattern, advocating that a separate budget for railways was no longer justified.

Bullet train project: Construction at Surat train station progresses swiftly, watch new video

Bullet train project: The construction of India's first bullet train project between Mumbai and Ahmedabad is moving forward with ace speed. The construction work at various stations that will fall on the route are underway simultaneously including India's diamond and textile hub Surat.

As the project progress is advancing with each passing day, the Railway Ministry has shared an update on the construction work at the Surat bullet train station. Taking to social media platform X, the ministry has shared a video showing the advancement of work. Take a look.

Not just for railways, but the bullet train project is also adding up advance infrastructure in the city.

The Indian Railways has already announced that the first phase of the bullet train project between Surat and Bilimora in Gujarat will be operationalised by 2026.

Recently, the construction of a bridge over the Dhadhar river in Gujarat's Vadodara district has been completed, taking the dream of running the country's first bullet train between Mumbai and Ahmedabad closer to fruition.

Mumbai-Ahmedabad bullet train expected to begin operations in Gujarat by 2027 end July 04,2024



Construction work is underway at the Bandra Kurla Complex Station, a key component of the Mumbai-Ahmedabad High-Speed Rail (HSR) corridor, in Mumbai. | Photo Credit: PTI

The Mumbai-Ahmedabad bullet train, Prime Minister Narendra Modi's pet project, is expected to begin operations in Gujarat by 2027 end and will later be extended to Maharashtra, according to the National High Speed Rail Corporation Limited (NHSRCL).

The first phase of operations is likely to begin ahead of the Gujarat Assembly election, which is due in 2027 with the term of the House expiring on December 19, 2027.

Accelerate: India's Bullet Train Progress Report





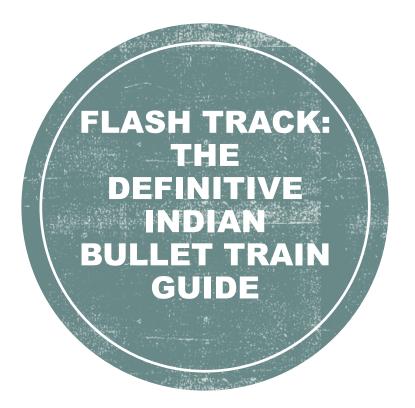
Underwater Bullet Train Tunnel Project in India: 10 facts that will leave you impressed : Aug 21, 2024.



India is all set to make a significant impact on the global engineering landscape with the construction of a 21 km underwater tunnel beneath the Arabian Sea for its first bullet train service along the Mumbai-Ahmedabad route. This ambitious endeavor is a key component of the Mumbai-Ahmedabad High-Speed Rail Corridor, a visionary infrastructure project set to transform travel between two of India's major cities.

Flash Track: The Definitive Indian Bullet Train Guide





Bihar Bullet Train: These 5 Cities To Have Stations As Part Of Delhi-Howrah High-Speed Rail Corridor

Patna: As construction of country's bullet train project between Mumbai-Ahmedabad is in full swing, an ambitious high-speed train project is also being planned in Bihar. The upcoming bullet train project will cover five major cities in state including Buxar, Arrah, Jehanabad, Patna and Gaya. Railway officials who are involved in pre-construction survey of the project have visited Udwantnagar in Bihar for land acquisition survey. The bullet train line in Bihar will fall between Bhojpur-Buxar.

The initial work related to the bullet train project in Bihar has already been initiated. The upcoming bullet train project will be an 61-km long elevated corridor with five stations.

Flash Track: The Definitive Indian Bullet Train Guide

India launches 'Make in India' steel bridge for Bullet Train Project

August 26, 2024 4

New Delhi: Another steel bridge of 100 m length has been launched for the Mumbai-Ahmedabad Bullet Train Project on August 25 near Silvassa in Dadra & Nagar Haveli, a press release stated.

This 1464 MT of steel bridge of 14.6 m in height and 14.3 m in width has been fabricated at the workshop in Trichy, Tamil Nadu and was transported on trailers to the site for installation.

Temporary launching

A temporary launching nose spanning 84 meters and weighing 600 MT was connected with the main bridge for launching, to avoid any intermediate support. Additional temporary members were also installed to strengthen the bridge during launching.

A total of 27,500 nos. of HSFG (High-strength friction grip) bolts were utilised to connect the components of the launching nose and approximately 55,250 nos. of Tor-Shear Type High Strength (TTHS) bolts with C5 system painting and elastomeric bearings, were utilized for the main bridge.

Mumbai-Ahmedabad Bullet Train Project Gains Momentum With Launch Of 100-Meter Steel Bridge In Silvassa

August 26, 2024.



A 100-meter-long steel bridge has been launched in Silvassa, Dadra, and Nagar Haveli, as part of the Mumbai-Ahmedabad Bullet Train Project. The bridge, launched on August 25, 2024, marks a significant milestone in India's ambitious high-speed rail initiative.

Statement Of An Official Of The National High-Speed Rail Corporation

"The bridge, which weighs 1,464 metric tonnes, stands 14.6 meters tall and 14.3 meters wide. It was fabricated at a workshop in Trichy, Tamil Nadu, and transported to Silvassa using trailers for final assembly and installation" said an official of the National High Speed Rail Corporation.



Mumbai-Ahmedabad Bullet Train Project: Breaking down engineering secrets of India's first high-speed rail corridor August 31, 2024

A lot has been said and written about India's first bullet train from Mumbai to Ahmedabad – its ambitious goals and grand promises. But beyond the headlines and soundbites lies the truth of extraordinary technology that many of us are yet to understand. This article aims to peel back the layers of media hype and offer a fresh, insightful look into the true marvel of engineering behind this high-speed revolution. Picture a train gliding effortlessly, slicing through the landscape at mind-boggling speed. How does it work? What makes it tick? Here, we'll uncover the innovation driving India's leap into the future of rail travel, and see why this project is more than just a high-speed promise—it's a technological game-changer.

Mumbai-Ahmedabad Bullet Train Alignment

The National High Speed Rail Corporation Limited (NHSRCL) spokesperson tells Financial Express that the Bullet Train corridor features approximately 90% of its route elevated, strategically designed to minimize disruptions to the existing infrastructure. This elevation approach enhances both efficiency and safety throughout the project.



Over 1.75L noise barriers installed on bullet train corridor Sep 10, 2024,



Vadodara: More than 1.75 lakh noise

barriers have been installed in Gujarat along the high-speed corridor Mumbai-Ahmedabad bullet train corridor. The barriers have been installed along a 87.5km stretch out of 508km of corridor being constructed under the project.

According to National High Speed Rail Corporation Limited (NHSRCL) officials, six factories — three in Ahmedabad and one each in Surat, Vadodara and Anand — are supplying the pre-cast barriers.



BEML Ltd to manufacture India's first bullet train

October 16, 2024 04:00 IST

On September 5, 2024, ICF issued a tender to build two high-speed trainset (also referred as a rake), designed to reach a top speed of 280 km/h and operate at 249 km/h.

State-run BEML Ltd has been awarded the contract for the design, manufacturing, and commissioning of two high-speed trainsets, each comprising eight cars by Integral Coach Factory (ICF), the company said in a filing to the stock exchanges on Tuesday.

"The price of each car is Rs 27.86 crore and the total contract value is Rs 866.87 crore which includes design cost, one-time development cost, non-recurring charges, one time cost towards Jigs, fixtures, tooling and testing facilities, which will be utilised for all future High-Speed projects in India," the company added. BEML said that this project marks a significant milestone in India's high-speed rail journey and will see the first indigenously designed and manufactured trainsets with a test speed of 280 kmph.

The company operates in three verticals- Defence & Aerospace, Mining & Construction and Rail & Metro, and has state-of-the-art manufacturing facilities located in Bengaluru, Kolar Gold Fields, Mysore, Palakkad, with R & D infrastructure and nationwide network of sales and services.

Momentum: Documenting India's Bullet Train Development

BEML awarded contract worth ₹866.87 crore to build indigenous high-speed trains

The move comes close on the heels of Union Railway Minister Ashwini Vaishnaw's visit to Japan to discuss cost escalation issues of the Shinkansen bullet train

Published - October 15, 2024 07:54 pm IST - New Delhi

BEML Limited, a public sector unit, will manufacture an indigenous high-speed train for a total contract value of ₹866.87 crore.

"This project marks a significant milestone in India's high-speed rail journey and will see the first indigenously designed and manufactured train sets with a test speed of 280 kmph," the BEML has stated.

Why the Mumbai-Ahmedabad bullet train project may have overcome a key hurdle

Det 15, 2024 20:14

Recent updates on station facilities and track construction suggest the high-speed rail project is picking pace after overcoming land acquisition hurdles in Maharashtra

India's first high-speed rail project seems to be on track with two key developments announced this month by the National High-Speed Rail Corporation Limited (NHSRCL) marking significant steps forward. Problems related to land acquisition in Maharashtra that have been plaguing the marquee project since its inception are finally over, and there is an indication of when operations may start.

The government overcame land acquisition hurdles in Gujarat a few years ago, but Maharashtra—part owner of the Mumbai-Ahmedabad bullet train project—proved tough, especially during the reign of Uddhav Thackeray, leading to a logjam. It was only after the Eknath Shinde government took office that things began to move—

Express India: The Complete Bullet Train Collection

NHSRCL invites applications for bullet train's track work in Maharashtra

Oct 07 2024

NHSRCL, in a release, said the bullet train track in Maharashtra will be 314 km long as the route alignment is 157 km between the train station at Bandra Kurla Complex and Zaroli village

The National High Speed Rail Corporation (NHSRCL) on Monday invited bids from eligible Indian and Japanese companies for the design, supply and construction of tracks for the Ahmedabad-Mumbai bullet train project in Maharashtra.

NHSRCL, in a release, said the bullet train track in Maharashtra will be 314 km long as the route alignment is 157 km between the train station at Bandra Kurla Complex and Zaroli village on the state's border with Gujarat.

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The tender is for the design, supply and construction of tracks and track-related works, including testing and commissioning for the double-line high-speed railway, it said.

Multimodal hub at Sabarmati to provide seamless connectivity Oct 15, 2024, 1



Ahmedabad: The high-speed rail multimodal hub in Sabarmati will offer seamless connectivity between transport modes, including Sabarmati railway stations, the metro station, the upcoming bullet train station, and the Bus Rapid Transport System (BRTS).

As an essential component of the Mumbai-Ahmedabad high-speed rail corridor, the hub's facade showcases a striking stainless steel mural depicting the historic Dandi March, highlighting Sabarmati's significance in India's history.

Express India: The Complete Bullet Train Collection

Rail expansion, ops safety, high-speed train on parliamentary panel agenda Oct 10 2024 |

The 31-member committee headed by BJP MP C M Ramesh will also examine a number of other issues, including improvement of public facilities at the railway stations

The parliamentary panel on the railways has selected "ensuring safety in Indian Rail operations", expansion of its network in the North East and UTs, and high-speed train network as among the subjects the panel will take up in its tenure.

The 31-member committee headed by BJP MP C M Ramesh will also examine a number of other issues, including improvement of public facilities at the railway stations, increasing freight-related earnings and the development of dedicated freight corridors, passenger reservation system and the promotion of railway-based tourism, an official bulletin said.

Safety in the running of trains has always been a sensitive issue and the opposition parties have cited some recent accidents to accuse the government of compromising on this crucial aspect.

However, the Railway Ministry has insisted that the overall accident rate has come down drastically during the Modi government's tenure.

Indian-designed high speed trains ordered 16 October 2024

INDIA: Integral Coach Factory in Chennai has awarded BEML an Rs8·67bn contract to design, manufacture and commission two 280 km/h high speed trainsets.

BEML said order for the first indigenously designed and manufactured high speed trains which was announced on October 15 'marks a significant milestone in India's high speed rail journey'.

The eight-car trainsets will be built at BEML's Bengaluru coach factory for delivery by the end of 2026.

Full Speed Ahead: India's Bullet Train Revolution

BEML Ltd to manufacture India's first bullet train October 16, 2024



State-run BEML Ltd has been awarded the contract for the design, manufacturing, and commissioning of two high-speed trainsets, each comprising eight cars by Integral Coach Factory (ICF), the company said in a filing to the stock exchanges on Tuesday.

"The price of each car is Rs 27.86 crore and the total contract value is Rs 866.87 crore which includes design cost, one-time development cost, non-recurring charges, one time cost towards Jigs, fixtures, tooling and testing facilities, which will be utilised for all future High-Speed projects in India," the company added. BEML said that this project marks a significant milestone in India's high-speed rail journey and will see the first indigenously designed and manufactured trainsets with a test speed of 280 kmph.

BEML to build India's first indigenously designed and manufactured high-speed train with 280 km/h speed

Published - October 16, 2024 07:00 am IST - BENGALURU

BEML Limited's Bengaluru rail coach complex will build the country's first indigenously designed and manufactured high-speed train with a test speed of 280 km per hour.

BEML Limited has been awarded a contract valued at ₹866.87 crore by Integral Coach Factory (ICF), Chennai, for the design, manufacture, and commissioning of two high-speed trainsets, each comprising eight cars.

Mumbai-Ahmedabad Bullet train BIG Update: 4 stations to get SMART makeover, to be integrated ... October 30, 2024



New Delhi: Under the SMART (Station Area Development) plan, the Indian Railways has earmarked four of the twelve stations on India's inaugural bullet train route between Mumbai and Ahmedabad for targeted development, according to The Indian Express report.

These stations – Virar and Thane in Maharashtra, along with Sabarmati and Surat in Gujarat – will be developed into vibrant activity hubs. This will enhance the connectivity and provide modern amenities for travelers and nearby communities.

Full Speed Ahead: India's Bullet Train Revolution



Rapid Transit Revolution: Mapping India's High-Speed Rail

Mumbai-Ahmedabad bullet train corridor: Construction of 12 river bridges completed in Gujarat

"The 120-metre-long bridge on the Kharera river in Navsari district is the 12th such structure to be recently completed in Gujarat," the National High Speed Rail Corporation Limited said

Updated - November 03, 2024 03:25 pm IST - Ahmedabad

The train is expected to reduce the travel time between Ahmedabad and Mumbai to around three hours from the current 6-8 hours.

"The bridge on the Kharera river, Navsari district, has been completed on October 29, 2024 for the bullet train project which marks the completion of all nine river bridges between Vapi and Surat bullet train stations (in south Gujarat) of Mumbai-Ahmedabad bullet train corridor," the NHSRCL said in a statement.

"Kharera is one of the tributaries of the Ambika river, which originates from the hills in Vansda taluka in the border area of Gujarat and Maharashtra. The river is located around 45 km from the Vapi bullet train station and 6 km from the Bilimora station," it said.

Biting the bullet: Will India's Bullet Train project become a reality soon?



In February of 2007, J P Batra, Railway Board chairman at the time, presented the idea of a high-speed rail to then Railway Minister Lalu Prasad Yadav. A socialist inspired by Jayaprakash Narayan, Yadav said his principles would never allow a premium train only the bourgeoisie could afford.

Batra, already credited with the Deccan Odyssey, a luxury tourism train, was so keen on the project that he defied the minister and convinced Prime Minister Manmohan Singh to give the green signal. Batra and Finance Commissioner R Sivadasan visited Gujarat and other states without even informing Yadav.

High-speed 280 kmph trains soon! Indian Railways to manufacture bullet trains - check top features

TOI Business Desk / TIMESOFINDIA.COM / Nov 28, 2024, 11:50 IST



Indian Railways is embarking on a 'Make in India' initiative to produce high-speed trains reaching 280 kmph, in partnership with BEML. These trains, estimated at Rs 28 crore per car, will boast modern amenities.



Bullet train: The train sets will feature modern amenities, including aerodynamic exteriors, sealed gangways. (AI image)

'Make in India' bullet trains soon! Indian Railways' Integral Coach Factory in Chennai is collaborating with BEML to design and manufacture high-speed train sets capable of reaching 280 kmph!

Railway Minister Ashwini Vaishnaw told Parliament on Wednesday that after the successful implementation of Vande Bharat trains under "Make in India", Indian Railways has initiated this new project.

Responding to queries from BJP MPs Sudhir Gupta

Rapid Transit Revolution: Mapping India's High-Speed Rail



Brief of Rajeev Chadha (Public Private Partnership Infrastructure and Investment, Guru)

Rajeev (aka PPPII Guru), MBA (Finance), Faculty of Management Studies, Delhi University, M.Sc (Electronics), MRICS (London), CAIIB, M.S(Consultancy Management-BITS Pilani), IRDA, AMFI certified. Rajeev is a professionally trained ex-banker (Management Trainee -1986 batch) from the second largest bank in India (Punjab National Bank). Rajeev has 38++ years of rich, varied, and unique industry experience spread across top MNCs (Ascendas Pte), Public Sector (Punjab National Bank) / Private Sector (Gold Souk, Wegman), Central Government (Ministry of Finance, Ministry of Urban Development) / state governments (Government of Uttaranchal + 20 other States of India) and Government of Singapore, statutory bodies (National Capital Region Planning Board, Ministry of Urban Development) and regulators (Inland Waterways Authority of India) in the infrastructure domain. Rajeev has been in leadership roles as CEO of four Real Estate Companies in India in the pre-demonetization era including two Real Estate and Infrastructure Private Equity and Venture Funds. Rajeev has provided consulting inputs to top international strategy consulting companies such as McKinsey, Bain, BCG, GLG, Deloitte, PwC and KPMG as a subject expert in the areas of infrastructure (all sub-sectors) as well as public, corporate, project and personal financing & infrastructure planning. Rajeev has worked extensively with the Government of India including the Ministry of Finance and the Ministry of Housing and Urban Affairs at the senior management level. This work besides Urban Infrastructure development also includes Smart Cities and land monetization.

Rajeev has been involved in infrastructure planning, financing & advisory of over 1800++ infrastructure projects/schemes aggregating to Rs.65 lac crores spread across ALL sectors. This includes 350++ PPP projects in various stages of development and 250++ transaction advisory assignments. Rajeev has undertaken Capacity Building and Training of over 6000++ professionals in India, Nepal, Bangladesh, Sri Lanka, and Singapore in innovative infrastructure financing, PPP (all sectors), land monetization, smart cities, and climate/disaster financing. Rajeev has also taught in two Management Colleges as external faculty as well as the Training College of Punjab National Bank in his areas of expertise i.e. Infrastructure, PPP, Urban / Smart Cities / Real Estate / Climate Financing etc.

Currently, Rajeev is also involved in 11 top infrastructure consulting assignments as a Team leader or Finance / PPP expert in South Asia along with the Infrastructure/PPP expert for Swadesh Darshan 2.0, Ministry of Tourism, PPP/finance/real estate expert in Musi River Front Development & Transit Oriented Development based Zonal Development Plan Ghaziabad (NCRTC) Projects Namo Bharat. He has been invited as a subject expert in SPA Delhi, Basic PPP training in Bangladesh (ADB project) & PPP Expert for the training program on transport infrastructure projects for BIMSTEC.

Rajeev is the only Asian to provide training not just in India but government-sponsored training workshops to government servants/bankers in Nepal, Bangladesh, and Sri Lanka. He has provided consultation and insights to the officials of the Holy City of Mecca and a Master Trainer for 9-day workshop for the PPP practitioners of Malawi.

Rajeev Chadha

Infrastructure Finance & Policy, Procurement, PPP (all sectors), Banking & Multilateral Projects, Government Finances, Sustainable Development, Climate Finance, Institutional Development & Governance

INDIA



Years of Experience

• 38+ Years

Qualifications

- MBA, FMS Delhi University
- M.Sc. (Electronics), Delhi University (Equivalent to B.E Electronics)
- Prince2R Project Management
- Key Expertise
- Infrastructure Finance & PPP (Project initiation to execution –entire lifecycle including appraisals)
- Banking, Private Equity & Venture Fund
- Urban Development & Large Infrastructure Projects
- Financing, Fundraising and Strategies for Government Organisations, Cities, Urban Development Bodies, State & Central Governments and Projects
- Public Financing (Central, State & ULBs)

Background

Rajeev has 38 + years of <u>unique</u> industry experience spread across top MNCs, Public / Private Sector organisations, Central / State Governments, Statutory bodies and regulators. *Rajeev also provided consulting inputs to top international strategy consulting companies such as McKinsey, Bain, BCG, GLG, PwC and KPMG as subject experts.* His consulting experience of 15+ years is across areas such as strategic advice, organization development, new policy formulation and framework, pre-feasibility and feasibility studies, project conceptualization and planning, the entire life cycle of project management & and program management, monitoring and review, mid-course correction, team management and providing overall leadership to assignments/projects and organizations.

Rajeev is currently involved in multiple advisory / Transaction Advisory projects in the Infrastructure sector.

- 1. Team Leader for TA services to National High-Speed Rail Development Corporation (NHRCL) for generating revenue from commercial utilisation of the High-Speed Rail Terminal at Sabarmati, Ahmedabad.
- 3. Investment, Finance & PPP Expert for Swadesh Darshan 2.0 for Himachal Pradesh & Jharkhand, Assam, Arunachal and Ladakh
- 5. Subject Expert, Capacity Building ERD /NPD, Government of Sri Lanka & PPPA, PMO, Government of Bangladesh
- 6. PPP/Real Estate/ Infrastructure Finance / TOD expert of Musi River Front Development
- 7. PPP/ Real Estate / Infrastructure Finance / TOD expert Zonal Development Plan Ghaziabad, NCRTC, Namo Bharat
- 8. Master Trainer for PPP Practitioners from PPP Commission of the Republic of Malawi P3World Council 9.Global Smart City, Finance, Climate & Disaster, PPP, TOD, Real Estate & Land monetization Expert City of Mecca

Key Experience

- Team Leader & Finance / PPP Expert, PPP Cell. Department of Economic Affairs (DEA), Ministry of Finance handling National Infrastructure Pipeline (NIP), National Monetization Pipeline (NMP), Gati Shakti & Centre of Excellence PPP (FCDO Funded
 - o Appraisal of large infrastructure projects on behalf of DEA (SFC. PIB . DIB , EFC , VGF , PPPAC & IIPDF Proposals)
 - o Policy making & capacity building for Public Private Partnership Projects (PPP) in India (FCDO Funded Project).
- Team Leader, GeM (Government E-Market Place, Ministry of Commerce), PMU -KPMG handling services design on GeM
- Team Leader (Medipark Industrial Estate , Chennai , Tamil Nadu) PMC –KPMG handling end to end advisory of Medical Devices Industrial Park.
- Team Leader Program Management for PMIDC, Govt. of Punjab for Smart City, HRIDAY, Swachh Bharat, Ease of doing Business, AMRUT. Supported Government of Punjab as overall leader & Finance / PPP Expert.
- Urban Finance & PPP Expert for PwC & KPMG. Inputs to 35 Smart cities namely Karnal, Indore, Gwalior, Bilaspur, Pasighat, Allahabad, Greater Warangal, Shivamogga, Hubbli Dharwad, Agartala & Karimnagar since 2015.
 17 Smart Cities of U.P in 2020-21 in a KPMG PMU Both Area based development (ABD) as well as Pan City ICT components of Smart Cities.
- Finance Expert at JBIC Funded Program Management for Yamuna Action Plan (YAP 2)- MoEF, Govt. of India. Urban reforms component. Entire life cycle of project management for a Japanese MNC Company Tokyo Engineering Consultants.
- Consultant for Govt. of A.P, Resident Commissioner Office, New Delhi handling ten (10) key Infrastructure Ministries & followup of Govt of AP Infrastructure projects
- Consultant (Finance & Audit), IWAI, Ministry of Shipping. World Bank assisted Waterways JVM -1. Handling CAG issues & advice on Finance matters. Fundraising by way of Bonds. Consultant, Ministry of Minority Affairs. Project appraisals for Grant disbursements. Approved Inspecting Authority of MAEF. Joint Director Finance NCR Planning Board. Infrastructure Projects in the NCR Region.
- · CEO of two real estate companies in NCR Region doing end to end Real Estate Projects including SEZs & Integrated Townships.



Key Achievements

- Infrastructure planning, financing and advisory of over 1800++ infrastructure projects/schemes aggregating to Rs. 58 Lac Crore spread across ALL sectors.
- Advisory of 350+ PPP Projects. Out of these 150 PPP Projects are at various stages of the project life cycle spread across ALL sectors.
- Transaction Advisory of over 250+ Infrastructure Projects (Brownfield & Greenfield)
- Capacity Building on PPP / Infrastructure Planning and financing to National Bank of Infrastructure, Bankers and Government Officers of Nepal through NIBM
- · Capacity Building on Infrastructure Financing for External Resources Department, Government of Sri Lanka.
- Teaching assignments at two Management Colleges in the Delhi / NCR Region on subjects related to Infrastructure, Finance, Banking and real estate.
- Strategic advice to the Department of Economic Affairs, Ministry of Finance, Government of India in large Infrastructure Project appraisals (SFC, EFC, PIB, DIB, VGF, IIPDF & PPPA. Over 100+ largest Infrastructure Projects in India were appraised during the period (2020-22). The total Project Cost involved Rs 5 lac crore.
- Strategic advice to the Department of Economic Affairs, Ministry of Finance, Government of India on Policy matters related to Public Private Partnership (PPP) ALL Sectors
- Strategic inputs to 35 Smart Cities in India in various Capacities as part of Project Management Consultants (PMC) and Project Management Unit (PMU) in 15 States in India.
- Enhanced Investment Portfolio of Punjab National Bank by 40% and increased Investment yield by 150 basis points across all types of financial instruments and maturities (1992-98).
- Played a key role in the Implementation of Finacle software at Punjab National Bank (1994-98)
- · Supported the Banking Division, Government of India in enacting the DRT Act (SARFARESI Act) and set up Debt Recovery Tribunals all over India.
- Transformation of Punjab National Bank Mutual Fund (2001) a subsidiary of Punjab National Bank
- Joint Director (Finance) at National Capital Region Planning Board, Ministry of Urban Development and supported Infrastructure Development in NCR Region.
 - o Raised Rs 3000 Cr by way of Private Placement of Bonds. Appraised over 300+Infrastructure Projects in the NCR Region
 - o Involved in large Infrastructure Projects such as KMP, FNG Expressway, IRBT, Delhi Metro, RRTS etc. Integrated Townships Projects in NOIDA, Gurgaon, Faridabad etc
 - o Managed the entire accounts & finance of NCRPB
 - o Capacity Building Workshops for ULBs in NCR Region
 - o Prepared the Regional Plan 2021 of NCR
- Joined SIDCUL, Government of Uttaranchal as General Manager (Infrastructure) and was involved in landmark Rurdrapur Industrial Estate & IT Park Dehradun development.
- Worked on Urban Sector Reforms under Yamuna Action Plan -2
- Raised Rs 1000 Cr for Solitaire Capital Advisors Singapore based Private Equity Firm
- · Joined Ascendas Pte Limited (Fully owned by Government of India) in 2008 as Vice President (North India Operations)
 - o Prepared Business Plans for two SEZs in Gurgaon one a JV with Dabur Group and the other with IREO
 - o Worked on Singapore India Economic Zone. Involved in over 20 Business development deals which included the acquisition of DLF Cyber City properties
 - o Listed the properties of Ascendas as REITS on the Singapore Stock Exchange (SGX)
 - Interacted with Central Government & State Government. Represented tCompany at various domestic and international forums such as FICCI, CII, ASSOCHAM, KOTRA, JETRO etc
- Worked as Professional CEO of two Real Estate Companies in 2012-17. Developed 25 Acre SEZ and 100 Acre Township. 25 Acre SEZ at NOIDA Ext leased out one tower of 3 lac sft to IBM.
- · Professional CEO & successfully developed Worked on Multiple assignments with Mckinsey, Bain and BCG providing support in the areas of my expertise
- Advised BHEL on Procurement-related matters pertaining to Make in India.
- · Inspected, and appraised over 10 projects for Maulana Azad Education Trust, MOEF, and GoI for grant funding.
- Raised Rs 300 Cr by way of Private Placement of Bonds for IWAI, Govt of India



Key Professional Milestones

- Joined Punjab National Bank as a Management Trainee in Aug 1986.
- Joint Director NCRPB, Ministry of Urban Development, Govt. of India (2001 04)
- O.S.D Banking Division, Ministry of Finance, Govt. of India (1999 2000)
- Vice President Punjab National Bank (1986 2001)
- G.M SIDCUL, Govt. of Uttaranchal (2004 05)
- Finance Consultant Yamuna Action Plan 2 (2005 06)
- Vice President Solitaire Capital (SEBI Regd Infra Fund) (2006 08)
- Vice President Ascends Pte Ltd (Fully Owned by Govt. of Singapore (2008 11)
- President Arenes Gold Souk, Gurgaon (2011 13)
- CEO Wegmans Trustone Group, NOIDA (2013 16)
- CEO AMRAC Advisors Pvt. Ltd (SEBI Registered AIF II (2016)
- Consultant Andhra Bhawan, Government of Andhra Pradesh (2016)
- Consultant IWAI, Ministry of Shipping, Government of India (2016 17)
- Consultant MAEF, Ministry of Minority Affairs, Govt. of India (2016 till date)
- Director PWC Government & Public Sector Advisory (2017 19)
- Sr. Advisor KPMG Govt. & Public Sector Advisory / Major Project Advisory (2019-TILL DATE)

BIMSTEC, 2025



Dhaka, Bangladesh Nov 2024



Dhaka, Bangladesh Oct 2024



Dhaka, Bangladesh Dec 2024



Colombo, Sri Lanka Sep 2023



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Infrastructure Finance, PPP, Procurement, Institutional, Governance and Global Smart Cities Expert

Colombo, Sri Lanka Jan 2024



Kathmandu, Nepal April 2022

