

Chenab Railway Bridge

June 7, 2025 • vajiramandravi.com



Chenab Railway Bridge Latest News

The Prime Minister recently inaugurated the Chenab railway bridge, the world's highest rail bridge, marking a historic milestone in India's infrastructure journey.

About Chenab Railway Bridge

- It is located in the **Reasi district of Jammu and Kashmir**.
- It is built at a cost of around ₹1,400 crore above the **Chenab River**.
- It is a vital **part of the Udhampur-Srinagar-Baramulla Rail Line (USBRL)**, aimed at **connecting the Kashmir Valley to the rest of the country**.
- It holds the record for the **tallest railway arch bridge globally**, with a deck height of 359 metres—35 metres higher than the Eiffel Tower.
- **Spanning 1,315 metres**, the structure includes a **785-metre arch** and a 530-metre approach span, designed **to traverse a deep gorge** in the challenging Himalayan terrain.

- The bridge is designed **to last 120 years**, capable of **withstanding winds up to 266 km/h**, **earthquakes up to magnitude 8**, and **explosions equivalent to 40 tonnes of TNT**.
- It is engineered to endure extreme Himalayan climates, **tolerating temperatures as low as -20°C** and maintaining structural integrity in severe weather.

Chenab Railway Bridge Project Execution

- **Managed by Konkan Railway Corporation**, the project was **executed by Afcons Infrastructure, VSL India, and South Korea's Ultra Construction & Engineering**.
- **Steel Authority of India supplied the steel**, and Swiss firm Mageba provided specialised bearings.
- Engineers used **Tekla software to create precise 3D models**, **aiding accurate design** and construction in a geologically complex region.
- The foundation and **safety assessments** were **conducted by top Indian institutions**.
- **IISc Bangalore** designed the protective base, **IIT Delhi and IIT Roorkee** handled seismic and slope analyses, while **DRDO contributed** to the bridge's **blast-resistant features**.
- Construction required over 28,660 metric tonnes of steel and the creation of 26 kilometres of motorable roads for access and transport in the mountainous region.

Chenab Railway Bridge FAQs

Q1: Where is Chenab Railway Bridge located?

Ans: It is located in the Reasi district of Jammu and Kashmir.

Q2: Is Chenab bridge world's highest?

Ans: It is the world's highest rail arch bridge.

Q3: The Chenab Railway Bridge is a part of which railway project?

Ans: Udhampur-Srinagar-Baramulla Rail Line (USBRL)

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