



Anji Khad Bridge

Why in News?

Recently, [Indian Railways](#) completed [the Anji Khad Bridge](#), India's first [cable-stayed rail bridge](#), located in the **Reasi district of Jammu and Kashmir**.

- It is a key component of the [Udampur-Srinagar-Baramulla Rail Link \(USBRL\) Project](#), designed to enhance regional connectivity and drive economic growth.

Key Points

▪ About the Bridge:

- The bridge spans **725.5 meters** with a **331-meter-high pylon**, built to withstand winds up to **213 km/h** and support trains traveling at **100 km/h**.
- It utilizes **96 cables** of varying lengths (82 to 295 meters) and an **innovative hybrid foundation** to stabilize the mountain slopes.
- It used **DOKA Jump Form Shuttering, Pump Concreting, and a Tower Crane Technique** to improve efficiency, reducing construction time **by 30%**.
 - The DOKA Jump Form Shuttering Technique is used for **constructing vertical concrete structures** like high-rises, bridges, and towers.
- The bridge will enhance **tourism**, **boost local economic growth**, and **improve transportation in the region**.

▪ Challenging Terrain:

- The **Himalayan location posed challenges** due to complex geology, [seismic activity](#), and fragile features like faults, folds, and thrusts.
- [IIT Roorkee](#) and [IIT Delhi](#) conducted site-specific studies to assess conditions and ensure the feasibility of construction.