

Naini Bridge (India)



Project description

The Naini Bridge, also known as New Yamuna Bridge, is located in the northern Indian state of Uttar Pradesh.

With a length of 1,510 metres – including a main span of 260 m – it is one of the longest cable-stayed bridges in India.

The bridge was opened to traffic in 2004 with the aim of minimizing the traffic over the Old Naini Bridge. It carries six lanes, and features two pylons, made up of concrete, that provide support to the major part of the deck of the structure held together by steel cables.

The bridge runs across the Yamuna River and connects the city of Prayagraj with the town of Naini.

The bridge is located in north part of Indian, in the state of Uttar Pradesh



mageba scope

In the course of a major bridge renovation, bearing and expansion joint replacement work was required, and mageba was awarded the contract to supply the necessary items. Huge RESTON®SPHERICAL bearings were supplied to replace the existing pot bearings, and a six-gap TENSA®MODULAR expansion joint was supplied to replace the existing joint. The new bearings are especially notable for the large displacements of ± 780 mm they are designed to accommodate. In addition to the associated design and fabrication work, mageba was also responsible for much of the work on site – in the case of the bearings supervision of installation was provided, and in the case of the expansion joint mageba carried out the complete replacement work. This was made all the more challenging by the requirement to keep traffic flowing on the bridge at all times, and by the very tight schedule imposed by the overall project.

Lifting into position of a new TENSA®MODULAR expansion joint at one end of the Naini Bridge



Highlights & facts

mageba Products:

Type: RESTON®SPHERICAL bearings
TENSA®MODULAR LR joint
Installation: 2023

Structure:

City: Prayagraj
Country: India
Type: Cable-stayed bridge
Length: 1,510 m
Main span: 260 m
Owner: National Highways Authority of India
Contractor: Freyssinet Menard India (P) Ltd
Consultant: COWI

A new TENSA®MODULAR joint following placing in the recess formed when the old joint was removed

