

New Jubilee Bridge, Kolkata (India)



Project description

A railway bridge was constructed in the late 19th century to span the Hooghly River near Kolkata - formerly known as Calcutta and the capital of erstwhile British India. Due to its opening in 1887, the fiftieth year of the reign of Britain's Queen Victoria, the bridge was called the Jubilee Bridge. At the start of the 21st century, after 125 years of service, the bridge was deemed to be in need of replacement, and a new bridge is currently under construction. The New Jubilee Bridge has been designed with a bow-string three-span continuous steel truss superstructure of overall length 417m.

mageba scope

mageba was awarded the contract to supply the bearings that support the bridge's deck. RESTON®SPHERICAL bearings with ROBO®SLIDE high-grade sliding material were selected for use. Such bearings were established to offer the optimal solution for this project, thanks to their high strength to footprint ratio and excellent durability. The bearings, with vertical load capacities of up to 46'500kN, shall be delivered marked with the CE label, certifying compliance with EN 1337 – a first in India for any type of bridge bearing. The project also represents the first use of spherical bearings on a major Indian railway bridge.

Highlights & facts

mageba products:

Type: RESTON®SPHERICAL bearings – for loads of up to 46,500kN
Features: ROBO®SLIDE high-grade sliding material
Installation: 2015-2016

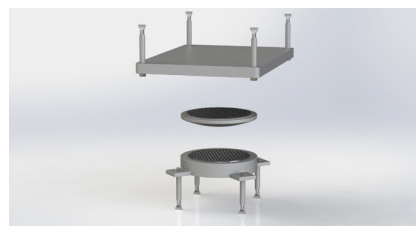
Structure:

State: Kolkata
Country: India
Completed: ongoing
Type: Railway bridge
Length: 417 m
Contractor: Tantia Constructions Ltd

The new bridge crosses the Hooghly River near Kolkata, eastern India.



Illustration of a RESTON®SPHERICAL Type KA bearing – exploded view showing central calotte.



A typical RESTON®SPHERICAL bearing during application of grease to upper sliding surface.

