

Dwarka Expressway (India)



Project description

Dwarka Expressway, also known as the Northern Peripheral Road, is an 8-lane wide, 29-kilometre-long highway that connects New Delhi and Gurugram in northern India.

It was planned as an alternative road link between Delhi and Gurgaon, and is expected to ease the traffic situation on the Delhi-Gurgaon Expressway upon completion.

The expressway has numerous bridge structures, including an 8.5-km-long flyover, which all needed bearings to support their superstructures.

mageba scope

For this project, mageba supplied a total of 736 LASTO®BLOCK elastomeric bearings with diameters of up to 1,100 mm, which are able to support loads of up to 17,294 kN and resist horizontal forces of up to 1,036 kN.

The use of elastomeric bearings allowed the optimization of the design and the dimensions of the substructure at many bearing locations, reduced the cost of bearing supply and installation, while providing some seismic isolation to better protect the structures in the event of an earthquake.

Beyond the elastomeric bearings, RESTON®SPHERICAL and RESTON®POT bearings were also supplied with load capacities of up to 2,750 kN and 16,400 kN respectively.

Highlights & facts

mageba Products:

Type: LASTO®BLOCK elastomeric bearings
RESTON®POT and RESTON®SPHERICAL bearings

Installation: 2022

Structure:

City: New Delhi
Country: India
Owner: National Highways Authority of India
Contractor: Larsen & Toubro Limited, Construction
Designer: L&T Infrastructure Engineering Ltd.

The project is located in New Delhi, the capital of India



LASTO®BLOCK elastomeric bearings after assembly



One of the supplied RESTON®POT bearings in mageba India's factory

