

# Sahar Elevated Access Road (India)



## Project description

The Sahar Elevated Access Road (SEAR), which opened to traffic in 2014, provides access for road traffic to the new Terminal T2 of Mumbai's Chhatrapati Shivaji International Airport, connecting it to the Western Express Highway. The road's 1,300m-long viaduct has spans of approximately 35 m. Its deck of precast concrete segments was erected using a specially fabricated launching girder and strand jack. The 27.6m-wide deck consists of a 9m-wide precast central spine and 9.3m-wide cantilever wings on either side, connected to the central spine by concrete stitching and transverse pre-stressing.

## mageba scope

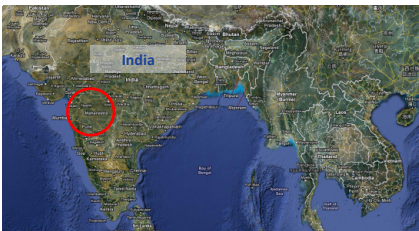
mageba supplied both the bearings and the expansion joints required in the construction of this long viaduct. 161 RESTON®POT bearings were required, for vertical loads of up to 13,700 kN – some of the fixed type, and others allowing sliding movements along either or both main horizontal axes. TENSA®GRIP single gap expansion joints, with a total length of 1035 m, were also supplied to accommodate the small deck movements arising at the gaps between the deck's individual segments. All of the products, bearings and expansion joints, were manufactured in India at mageba's Kolkata subsidiary.

## Highlights & facts

### mageba products:

Type:	RESTON®POT bearings, TENSA®GRIP expansion joints
Installation:	2014
<b>Structure:</b>	
State:	Mumbai
Country:	India
Completed:	2014
Type:	Precast concrete segmental road bridge
Length:	1300 m
Contractor:	Larsen & Toubro
Owner:	MMRDA

The viaduct provides road access to Terminal 2 of Mumbai's international airport.



RESTON®POT bearings as manufactured, ready for installation.



Illustration of a TENSA®GRIP single gap expansion joint, showing its strong anchorages.

