Tidagundi Canal Cum Road (India)

Project description

The Tidagundi Canal Cum Road is one of the most important projects that ensures the constant supply of water for irrigation from the Krishna River to the district of Bijapur and the surrounding areas in the state of Karnataka, India. The project is expected to be finished in 2019.

This unique waterway was constructed from 30 m long, simply supported U shaped sections, which were pre-casted and pre-tensioned. Each of these sections weighs 230 t and has a length of 30 m.

They were lifted to position using two 500 t cranes. The canal was made from composite precast deck slabs using in-situ concrete stitches.

The estimated cost of the project is 38,000 TUSD.

mageba scope

Initially, the project specification suggested the use of spherical bearings as Indian standards previously did not allow the use of elastomeric bearings to transfer seismic forces. This would have been more cost efficient with the additional advantage of easier installation.

To overcome this issue, it was suggested to design and manufacture elastomeric bearings as per EN 1337-3:2005. Due to this solution the costs were reduced to one third in comparison to the initially estimated price. The quality of bearings were ensured by affixing them with CE labels.

A total number of 1,660 pieces of LASTO®BLOCK Type B elastomeric bearings (CR) were supplied within a year.

Installation assistance was also provided by mageba to further ensure the performance of the products.

Highlights & facts

mageba Products:

Type:	LASTO®BLOCK elastomeric bearings of type B
Installation:	2018

Structure:

State:	Bijapur, Karnataka
Country:	India
Length:	15 km
Owner:	Krishna Bhagya Jala Nigam Ltd.
Contractor:	Shankaranarayana Construction Pvt. Ltd.
Engineer:	Root Design Technocrat Pvt. Ltd.

Location of bridge in Tidagundi, Karnataka

Installation supervision of LASTO®BLOCK elastomeric bearings

Installed LASTO®BLOCK bearings pairs on top of the bridge's pylons

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