



FREYSSINET

SUSTAINABLE TECHNOLOGY

As a part of Palm Deira Development in Dubai, launched by Nakheel in 2007, significant role was dedicated to infrastructure projects, including many roads and bridge structures. The first phase of this project is construction of Access Bridges, awarded to Belhasa Six Construct in 2008.

The Palm Deira Access bridges present twin deck, six lane, multi box girders with average span of 95m.

Following financial downturn in 2009, project was put on-hold and un-completed structures were left abandon for several years. Inspection of the structure confirmed longitudinal dislocation of deck segment on East bridge E2 along with damages on mechanical pot bearings, caused by earthquake in neighbour Iran. Completion of the structure required repositioning of deck segment and replacement of all bearings (total 8 pcs).

Freyssinet was appointed to design, supply and execute deck repositioning works and replacement of damaged pot bearings, involving longitudinal movement of the deck of 900 mm and transversal movement of 65mm. Total weight of bridge deck was 15 000 tonns. Complete operation on site took not more than 6 weeks, following detail design and fabrication of temporary supports, required for safe execution. After completion of remedial works, deck was ready to be joined with the remaining part of the bridge.

Repairs

Palm Deira Access Bridges – Bridge Repositioning and Bearings Replacement Works Dubai, UAE



Client

Road & Transport Agency

Consultant

Parsons

Contractor

BESIX

Construction

December 2013 – January 2014