

The subject bridges are situated in the Industrial Area of Messaied. One of the 2 bridges crosses existing road over the sea water channel. Bridges has same geometry, superstructure and substructure.

Each bridge deck is a “beams and slab” type, consisting of eight (8) nos. of precast reinforced concrete beams, with a concrete top slab cast-in-situ on permanent formworks. No diaphragm beam connecting the precast girders has been found. A total thickness of bridge (deck slab + asphalt layer) is 450 mm. The static system of bridge is simply supported beam with span of 15.3 m.

Neoprene bearing pads were extremely deteriorated losing its original elastic properties. The height of some bearings has drastically decreased, so that the beams are only few millimetres above the concrete face.

For the replacement of bearings, bridges were lifted by 8 hydraulic jacks & supporting structures.

Repairs

Deck lifting and Elastomeric Bearings Replacement

Messaied Bridge,
Messaied - Qatar



Client

Qatar Petroleum

Consultant

Technital

Contractor

Galfar Al Misnad

Construction

February 2007 – March 2007