Mahatma Gandhi Setu, Patna



This bridge is one of the longest bridges in Asia having 45 spans of 121 Meters and 2 end spans of 63.5 M. each. The total length of this bridge is 5525 Meters long and is situated on NH-19 across River Ganga in Patna. It is a pre-stressed concrete bridge with pre-cast double cantilever construction on RCC piers and wells. The superstructure consists of cantilever 'T' arms of 60 Meters on each side of the pier.

The cantilever arms were deflected due to loss of prestressing forces in existing cables. The box girder is segmental casting. Due to distress, some of the segments separated forming a gap of 15 to 20 mm. In few spans, cracks were observed in the bottom slab of the box girders and there was excessive sagging of the cantilevers. Rehabilitation measures adopted were External Prestressing to the deflected cantilever tips, spans and stitching was done with imported Macalloy bars. The damaged Central Hinge Bearings and Expansion Joints were replaced with new ones.