



## İZMIT BAY SUSPENSION BRIDGE

Erdogan DEDEOGLU<sup>1</sup> and İsmail KARTAL<sup>2</sup>

Gebze-Orhangazi-İzmir Motorway (İzmit Bay Crossing and Connection Roads) is one of the most important transportation infrastructure projects in Turkey, having the largest tender budget so far. Gebze-Izmir Motorway Project is under construction which is tendered by BOT Method. With the construction of the İzmit Bay suspension bridge, the İzmit Bay which can be travelled around using the existing state roads by 70 minutes will be crossed through in just six minutes. That means 92 % decrease in travel time. Izmit Bay Bridge will be a 2682 m long suspension bridge with a 1550 m long main span and a 566 m each side span. The bridge girder will be of steel box girder construction with a stiffened steel plate deck with asphalt surfacing. The main suspension cables will be formed from pre-fabricated parallel wire strands (PPWS). The towers will be of stiffened steel plate construction. The towers of the bridge are 252 m high. The anchorages will be of the gravity type and will be supported on spread foundations. The tower foundations will be concrete caissons placed on improved soil. Soil improvement will be achieved by steel pile inclusions. The transition spans between the side span piers and transition piers will be formed by single span steel box girders. The İzmit Bay Suspension Bridge is located between along the western part of Hersek peninsula and Dilovası.

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<sup>1</sup> Bridge Chief Engineer, General Directorate of State Highways, Bay Bridge Directorate of Public-Private Partnership, Bursa, Turkey, ededeoglu@kgm.gov.tr

<sup>2</sup> Director, General Directorate of State Highways, 1st Division Directorate, Istanbul, Turkey, ikartal@kgm.gov.tr