

## The New Cable Stayed Bridge in Bari, Italy

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## Summary

The municipality of Bari, in the SE of Italy, had long been waiting for the completion of an important existing road axis, connecting the North and South ends of the city through its densely populated precinct. Hence the necessity to overpass both the large railway area and the urban district nearby with a bridge. Its function will not only be that of providing an important facility for transport, but it will also be an outstanding landmark, in the effort to improve the outlook of the urban territory.

Hence the new cable stayed bridge was conceived to be the right answer not only to the requirements of vehicular circulation but also a fine architectural implant for the requalification of the urban tissue beneath. The structural, logistic and aesthetical choices always took into account the links between each other.

**Keywords:** cable-stayed bridge; post-tensioning; seismic isolators; pylon; railway.

## 1. Overview and main features

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*Fig. 1: The construction site in Bari*

As a fence in the delimitation between these two components of the city that wait to be effectively linked up with the completion of the North-South road axis, the railway tracks lay wide in their East-West main direction. The effect of physical separation is made even more powerful by the presence – in the central portion of the crossing to be overpassed – of a large area with railway facilities like sheds, banks, and a certain number of sidings with skew orientation that made the preliminary placement of the deck's