



Bridge over river Cedrino

Orosei, Italy / 2024

Owner
Client
Scope

UNIONE DEI COMUNI DELLA VALLE DEL CEDRINO
Centrale Unica di Committenza Unione dei Comuni Valle del Cedrino
tender design

The main bridge has an overall length of 280 m, measured between the centerlines of the abutments, with a straight alignment. It consists of five spans of varying lengths: 34 + 36 + 140 + 36 + 34 m. The cross-section is 25 m wide and accommodates two lanes in each direction. The main arch bridge crossing the Guadalfeo River has a span between supports of 140.0 m, comparable to the bridge subject of this competition.

The deck consists of a multicellular prestressed reinforced concrete box section, 10.0 m wide and 2.50 m deep. The number of webs in the box differs between the central span ($L = 140$ m), which has 3, and the side approach spans ($L = 34$ m and 36 m), which have 2. The cross-section is completed by diaphragms made of precast concrete beams spaced 4.0 m apart.



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