



Cable-stayed bridge across Oued Bouregreg

Civil Engineering Structures

Jan. 2009 - Feb. 2014



MOROCCO - Rabat

Client

AUTOROUTES DU MAROC (ADM)

Project owner
ADM

Miscellaneous

Cable-stayed bridge:
745 m,
Deck length: 951,66 m,
Central span: 375 m,
Piles height: 200 m



Description of the project

ADM (Autoroutes du Maroc) had for a long time wished to realize a cable-stayed bridge for the Kingdom of Morocco.

After a first draft planed over the Oued Sebou, close to Fès which reached the stage of pre-detailed draft with a team composed of SETEC TPI, Setec Morocco, the architect Hervé Vadon (Strates) and TERRASOL, a second opportunity occurred on the highway bypassing Rabat as an alternative to classical viaduct with concrete segments.

The same team presented an ambitious project with exceptional dimensions: total length of 952 m with a central span of 375 m, 100 m deck height and two main piles of 200 m height with an architecture inspired by the Arts of Islam.

Description of the mission

The geological and geotechnical context is characterized by the presence of metamorphic terrains (Carboniferous shales) covered by sedimentary formations (calcareenites, limestones, mudstones). The quality of the soils below the main pillars led to favor a supporting solution with shallow foundations, however with impressive dimensions (25x30m, about the size of a tennis court).

Key features

- Definition and follow-up of soil investigations
- Foundations pre-design
- Geotechnical assistance during works (earthworks, foundations)
- Control of detailed design

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