Extension of the Algiers Metro, Algeria

Project details

Client: Cosider
Date: 2018
Country: Algeria
Area of Activity: Specialised engineering and Railways
Main Activity:
Building project and works assistance
Other relevant information:
It includes an underground station, an incrementally launched bridge with a length of 1.5 km and two elevated stations

Project for construction and support during the extension works

Algiers is the capital of Algeria and, with over two million inhabitants, the most populated city in the country. It is an important focus of economic activity, which directly impacts public transport needs. The metro of Algiers are currently undergoing a process of expansion, with the objective of increasing access to the city.

Within the framework of this expansion, Prointec has developed the construction project for the extension of the Ain Naadja–Baraki line, including an underground station and an incrementally launched viaduct with a length of 1.5 km, on which will be located two elevated stations, and will provide technical assistance throughout the works.

The structures included in this project have the following main features:

The **Mohamed Boudiaf station** consists of an underground structure with a depth of 27 m and a floor plan of 144 m x 27 m. It has four entrances and comprises six levels: floor slab, platform level, two levels for technical rooms, access level and roof level. The construction process involves the complete excavation of the station under the shelter of a screened area with piles anchored to the ground, in which the structure of the station will subsequently be built from the floor slab to the roof.

The El Harrach viaduct, with a total length of 1,466 m (area of 13,785 m^2), is distributed in 35 spans with a maximum height of 51 m, on which are located two elevated stations, one to give intermodal access to an existing railway line and another for access to a new urban development. The viaduct has been planned with a reinforced concrete cage, and will be built by incremental launching of platforms, with a length of 930 m and 389 m respectively, from both buttresses, thus minimising the impact on the

surrounding area. The central connecting section and the definitive outer reinforcement will be installed after the completion of both incremental launches.