

BOCC building Railway Station

King Abullah Economic City, KAEC



CLIENT	Haramain High Speed Railway Consortium
PROJECT DATE	2014
LOCATION	KAECV, Saudi Arabia
FIELD OF ACTION	Geotechnical Design

In 2012 the works regarding the connection between Madinah & Makkah by a High Speed Railway line of 450 km began. As part of this project, INES has developed the geotechnical design for the BOCC Building.

The Backup Operation Control Centres (BOCC) is a building involving multidisciplinary centres where, different tasks and activities related to railway operation (abnormalities management, planning, maintenance, training and others) are carried out.

The BOCC Building is conceived as the aggregate of different volumes, with a perimeter wall enclosing all. The entry to the complex will be linked to the main access



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road and next to the car parking area.

Overall, a total floor area of 1,135 m² is projected, reaching a maximum of two storeys and without basements.

The geological design required first the performance of 5 boreholes with standpipes, 4 test pits, an electric thermography and a geotechnical and chemical analysis of the soil samples.

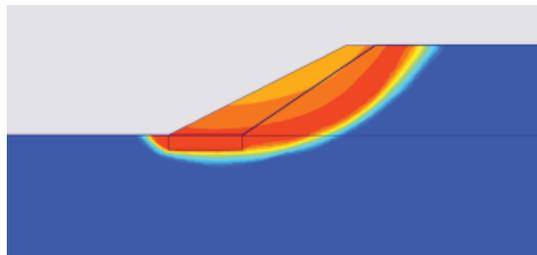
Once in possession of the mechanical properties and if the soil configuration, seismic, stability and settlement assessments were performed, following the Saudi Building Code Standard.

As result or conclusions, the ground was described, establishing limits for earthworks, embankments and foundations for the performance of the BOCC Building.

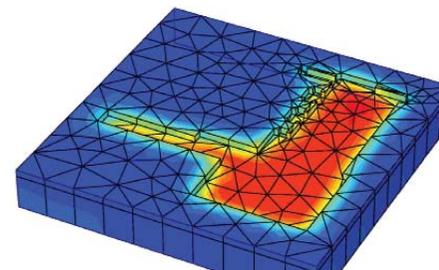
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Stability



Settlements

