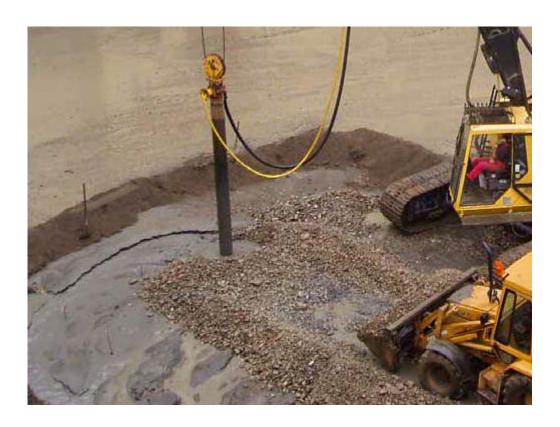


Cevital plant construction

Bejaia

Soil reinforcement by wet process vibro stone columns for the construction of the Cevital plant.



The project

This project was for the construction of the Cevital oilseed crushing plant including a storage silo with a capacity of 80,000 tonnes, as well as several sugar conditioning and processing facilities. The overloads applied to the ground were about 420 kN/m².

The challenge

The land was essentially composed of muddy sand, characterised by peak resistances from qc = 0.6 MPa to 5 MPa up to 18 metres deep then denser sands. Soil reinforcement was required to ensure adequate load-bearing capacity for the structures.

The solution

To increase bearing capacity and reduce settlement, Keller installed 106,750 linear metres of columns at an average depth of 18 metres.

Project facts

Owner(s)

Cevital

Keller business unit(s)

Keller Algeria

Main contractor(s)

Cevital

Solutions

Bearing capacity / settlement control

Markets

Industrial

Techniques

Vibro stone columns / Vibro replacement

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