

## 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/m<sup>2</sup>.

### The challenge

The land was essentially composed of muddy sand, characterised by peak resistances from  $q_c = 0.6$  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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