

**MECHANICAL STABILIZATION AND
DENSIFICATION OF SOILS**

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ABSTRACT

This project is about the mechanical stabilization and densification of soils. The project deals with the processes needed, so as the properties of the soil become ideal for use in the construction industry, and mostly for road construction.

At the beginning of the project there is an introduction about various road conditions and how this is related to soil stability. Afterwards, there is a brief description of what "mechanical stability" is and what its properties are.

After, there is a detailed description of the principles and the properties of soil, so as to be stabilized for certain construction needs. Then, the major soil types are given and there is a description of the ways, the methods, and the use of their recognition.

Continuing, the various methods of stabilization are described, giving emphasis to Mechanical Stabilization, which is the main method of stabilization covered in the project.

Finally, there is an analysis of the procedures and equipment used for Mechanical Stabilization, so as various soil properties are altered and finally have the standards needed in each given situation.

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