

**THE RELATIONSHIP BETWEEN THE  
MOISTURE CONTENT, THE DENSITY  
AND THE STRENGTH OF SOILS**

(Experimental)

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Project Report

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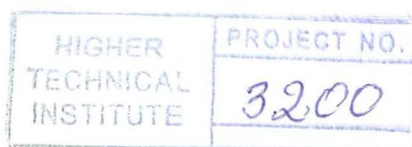
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## SUMMARY:

The object of this project was to determine the relationship between the moisture content, the dry density and the strength of soils. The soil tested was the crusher run and for the determination of the above, the California Bearing Ratio (C.B.R.) test and the Proctor test were carried out.

The project is divided in five chapters and a brief description of each chapter is given below:

The first chapter gives an account on the soil stabilization and mentions the properties of soil.

The second is referred to mechanical stabilization and densification (general).

The third chapter deals with the C.B.R. test in detail.

It mentions the purpose, scope and the basis of this test and also how the C.B.R. value is calculated.

In the fourth chapter we can see an experimental study in order to examine the influence of dry density and moisture content of a soil on its strength.

In the last chapter there is a presentation of the project's results and graphs. Furthermore the conclusions are present in chapter five, with the references and appendixes.

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