

# **CBR TEST FOR COHESIVE SOILS**

*by:*

**Gregoris Gregoriou**

*Project Report*

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**HIGHER TECHNICAL INSTITUTE**  
**Nicosia - Cyprus**

**CIVIL ENGINEERING DEPARTMENT**

Academic Year 1991/92

Diploma Project Number: **C/618**

Title: CBR test for Cohesive Soils

Objectives:-

1. To give an account on pavement thickness design methods.
2. To write about the importance of subgrade bearing capacity on pavement thickness design.
3. To give the test methods by which the bearing capacity of soils may be measured.
4. To elaborate on the CBR test and give its relation to other tests.
5. To carry out an experimental study and examine the influence of density and moisture content of a soil on its CBR test results.

Terms and Conditions:-

1. For the experimental Part a cohesive soil shall be used.

Student : Gregoris Gregoriou (3CE2)

Supervisor : Ioannis Economides

External Assessor : J. Sophos

IE/ML

# CBR TEST FOR COHESIVE SOILS

GREGORIS GREGORIOU

Project Number: C/618

## SUMMARY

The reason this project was undertaken, was to determine the soil Strength with the California Bearing Ratio. The soil which is investigated is a cohesive soil with an amount of sandy.

In this project all aspects which effect in pavement design were investigated, as highway materials, traffic loading and subgrade. Also chapter one deals with the elements of pavement which are the surface, roadbase and subbase.

In addition this project deals the other method of pavement design and provides a correlation with a CBR test.

Finally the last chapter includes the results and conclusions of the CBR test.

The conclusions are that when the water content is increased, the CBR is decreased and when the dry density is increased the CBR is increased too.

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