FINAL YEAR PROJECT REPORT

ADVANCED DIPLOMA IN CIVIL ENGINEERING
SCHOOL OF ENGINEERING
MARA INSTITUTE OF TECHNOLOGY

PROPERTIES OF GRANITE DERIVED RESIDUAL SOILS

BY

MOHAMAD ISMAIL BIN KEPLI
(91010430)
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Mohamad Ismail Kepli
ITM/MAY94(Shah Alam)

TABLE OF CONTENTS

SYNOPSIS

This research project is aimed to study the properties of granite derived residual soils. The samples were taken from two sites in Melaka. Good result expected to be obtained because the samples collected are undisturbed. The samples nicely bored and great care taken to transport the samples from Melaka.

Disturbed samples mainly were used in performed the classification tests. Whereas the undisturbed samples prepared for strength tests. The results were compared to existing granitic residual soils properties taken from skepper et al, Yee and Ooi, etc. The results obtained are in intermediate correlation to them.

Malaysia is rapidly developing countries, demand bigger and high rise structures. These situations brought about a general awareness of the soil problems amongst engineers. To understand better the problems, it is necessary to know the soil distributions and their engineering properties. I hope my work may add the knowledge sought.

CHAPTER ONE INTRODUCTION

1.0 THE SAMPLES OF THE PROJECT

Samples were taken from two projects in Melaka.

i. Proposed turtle sanctuary management and hatches center.

ii. Proposed extension block to Sekolah Kebangsaan Bacang, Bacang.

The former have four tubes of undisturbed samples received by Institut Kerja Raya Malaysia (IKRAM) from JKR Melaka on 4th May 1993 and the latter has two tubes also undisturbed received on 24th June 1993. The samples were taken from IKRAM on 29th July 1993.

The areas of study and comparison areas such as Tebong, Jasin and Kem Terendak are clearly located in the map 1. These comparison areas are mainly use to understand the situation at Bacang and Bandar Melaka.