# BUILDING SURVEYING DEPARTMENT FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING UNIVERSITI TEKNOLOGI MARA CAWANGAN PERAK

## A STUDY ON THE SATISFACTION LEVEL OF ROAD MAINTENANCE WORK DONE BY PRIVATE CONCESSION

## MUHAMMAD SUHEIL BIN ABDUL KADIR (2014899696)

**Bachelor of Building Surveying (Hons)** 

#### **SUPERVISOR'S DECLARATION**

#### Academic Project Title:

### A STUDY ON THE SATISFACTION LEVEL OF ROAD MAINTENANCE WORK DONE BY PRIVATE CONCESSION

I admit that I had read this report and from my opinion it has fulfilled the

Requirements and qualified for the purpose of conferment of

Degree or Bachelor in

BUILDING SURVEYING (Hons.).

Signature :
Supervisor's Name: Sr. Pn. Suriani binti Ngah Wahab
Date :

#### **ABSTRACT**

Road Facilities is one of the biggest assets in the country. Taking care of these facilities is essential as it can be the main factor in the development of the country. In Malaysia, Public Work Department (PWD) Malaysia is the main custody to make sure the roads is in a good condition especially for Federal roads network. PWD Malaysia has applied Pavement Management System (PMS) that utilizes Highways Development and Management (HDM-4) as the engine to analyze in term of economic and technical perspective to generate work program to be implemented in state level by private company. Privation of the road maintenance work has bring question whether it is sufficient due to cases arise regarding the quality of the road in Malaysia. PWD Malaysia as the responsible party need to address whether they are satisfied with the work done by the private concession company. This study has covers the type of routine road maintenance works done by these private concession company in district level for federal and state road which has different private concessions companies to undertake the maintenance work. An observation made to the area to give clear view about the routine road maintenance work done by these concession companies. There are two types routine maintenance work done which are on-carriageway and off carriageway. Questionnaires have been distributed to the PWD of district level to identify the level of satisfaction of the work done by these private concession companies. The study has shown that, there is different satisfaction level between private concessions companies of Federal Road and State road maintenance work.

#### **ACKNOWLEDGEMENT**

First of all, I would like to thank to The Almighty Allah S.A.W for blessing me and give strength for me to be able to finish this study. I also would like to thank to my beloved parents and family, dearest lecturers and teachers, sincerest friends from the beginning of my life until now. No words can express my thankfulness of your blessing in finishing this study.

Here I would like to thank to every individuals who involved in the completion of this study. I would like to express my deepest gratitude to my beloved supervisor, Sr. Suriani Ngah Abdul Wahab for your nonstop guidance and advice, patience and criticism from the beginning of this study until completion. Without your countless effort, it would be a huge load for me, to complete my study. I would also like to thank to every lecturers in the Department of Building Surveying for their effort and suggestion since the first day I become a building surveying student. Nothing can repay your efforts.

I would like to add the respondents from all case studies to my acknowledgement for their cooperation and sincerity in completing my questionnaire survey forms. Your generosity is beyond my gratitude.

Last but not least, I would like to thank to all my classmates and every individual who involved directly and indirectly in the completion of this study. Your sincerity will always be in my mind.

#### CONTENT

TITLE	PAGES	
Abstract	i	
Acknowledgement	ii	
Table of Content	iii — v	
List of Table	vi – vii	
List of Figure	vii	
List of Plate	viii	
CHAPTER 1 (INTRODUCTION)		
1.0 Overview	1 – 2	
1.1 Problem Statement	2 – 4	
1.2 Aim and Objective	4	
1.3 Scope and Limitation	5	
1.4 Research Methodology	6 – 8	
1.5 Significant of Study	8 – 9	
1.6 Chapter Outline	9 – 10	
CHAPTER 2 ( LITERATURE REVIEW )		
2.0 Introduction	11 – 12	
2.1 Road Network	12	
2.1.1 Federal Road	12 – 13	
2.1.2 State Road	13	
2.1.3 Administration of Road	13 – 14	
2.2 Definition of Road Maintenance	14 – 15	
2.3 Road Maintenance Management	16	
2.3.1 Road Maintenance Management in Malaysia	16 – 18	
2.3.2 Pavement Management System	18 – 21	
2.3.3 Highway Development and Management (HDM-4)	21 – 23	
2.4 Privatization	23	
2.4.1 Privatization in Malaysia	24	
2.5 Road Maintenance	24 – 26	
2.5.1 Type of Road Maintenance	26	
2.5.1.1 Routine Maintenance	26 – 27	
2.5.1.2 Periodic Maintenance	27 – 28	