# A STUDY TO IDENTIFY AN EFFICIENT TRANSPORTATION SYSTEM AT THE LOWEST COST

A GRADUATION EXERCISE SUBMITTED

AS PARTIAL FULFILMENT OF THE

ADVANCE DIPLOMA IN BUSINESS ADMINISTRATION

(TRANSPORT)

BY ROSHIDA BTE AHMAD

ADVANCE DIPLOMA IN BUSINESS ADMINISTRATION

(TRANSPORT)

SCHOOL OF LUSINESS AND MANAGEMENT

MARA INSTITUTE OF TECHNOLOGY

SHAH ALAM

MAY 1991

### ACKNOWLEDGEMENT

I would like to express my utmost gratitude to my advisor Cik Norminsham Bte Abdul Karim for her guidance during this exercise. Her helpful comments, advise and constructive criticisms and fine suggestion are very much appreciated.

I owe a million thanks to the management of Harpers Trading (M) Sdn. Bhd. for providing me a place to do my six months practical training and particular to my supervisor, Mr. Risha Rajadhurai who has been a great help in not only my graduation exercise but also on the aspects of work of the department of Distribution and Warehouse. His concern and patience is very much appreciated.

I also would like to express my gratitude to Mr. Yap Hon Kong, Harpers Warehause and Transportation manager, who has help me a lot in giving me with all the information that I needed, either printed or not.

This graduation exercise would not have been possible without the encouragement and inspiration from both my beloved father and mother, my brothers and sisters and also my friends, special thanks goes to Rahimah Idris for all the helps and encouragement.

### ABSTRACT

Transportation costs is the major cost item in total physical distribution costs. Transportation costs play about 16 to 24 percent of total distribution costs in most of the countries.

Transportation costs has a direct line with fuel, labour and warehouse system. This make control of the system difficult. In today modern world, they are many systems and approaches that have been suggested in handling and managing transportation system.

It is the aim of this study to identify an efficient transportation system at the lowest cost. Efficiency have been valued in terms of cost-effectiveness. This study also discusses comparison between own transport and contract hire service.

# TABLE OF CONTENT

### PAGE

Confidentiality

Acknowledgement

Abstract

List Of Figures And Graphs

# CHAPTER 1 : INTRODUCTION

1.1	1.1 Introduction								1
	1.1 (A) P	hilosophy	Of	Harpers	Trading	(M)	Sdn.	Bhd.	2
	1.1 (B) O	bjectives	Of	Harpers	Trading	(M)	Sdn.	Bhd.	2
1.2	Problem S	Statement							3
1.3	Objective	s Of Study	,						5
1.4	Hypothesi	s							6
1.5	Literatur	e Review							6
1.6	Scope And	Limitatic	חכ						12
1.7	Methodolo	) g y							13

# CHAPTER 2 : TRANSPORTATION COSTS

2.1	Introduction	16
2.2	Transportation Costs	16
	2.2.1 Own Fleet Costs	16
	2.2.2 Contact Fleet Costs	19
2.3	Factors Affecting Transportation Costs	19
	2.3.1 Policy And Objective Of a Company .	20
	2.3.2 Characteristics Of Products Handled	20
	2.3.3 Customer Location And Size Of Order	22
	2.3.4 Routeing And Scheduling Of Vehicles	23

24
25
25
26
26
27
28
31
31
35
37
37
38
38
39
40
43
70
57
58
59