

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

FINAL PROJECT (BSB314)

CASE STUDY: IMMIGRATION BUILDING

PREPARED BY:

MOHAMAD AZIZ IZZUDDIN BIN BAHAROM	2012539873
SHAFIQ TAQIUDDIN BIN TAJUDDIN	2012343569
MOHAMMAD HASIF HAZIM BIN SAHDUN	2012912771
BENEDICT SANDIN ANAK JOSEPH GARAN	2012170519
SITI NURBAYA BINTI SHAMSHUL BHARI	2012614286

DIPLOMA IN BUILDING SURVEYING

SEMESTER DECEMBER 2014 – MARCH 2015



TABLE OF CONTENT

No.	Items	Pages		
1.	Acknowledgement	i		
2.	Table of Content	ii – v		
3.	List of Chart, Table, Diagram and Figure	vi – x		
4.	Abstract	xi		
5.	Chapter 1 : Detail of property			
	 1.1 Introduction 1.2 Building background 1.2.1 Objective 1.2.2 Mission 1.2.3 Vision 1.3 Building view 1.4 Location plan 1.5 Property summary detail 1.6 Adjacent building 1.7 Building accommodation 1.8 Facilities provides 1.9 Summary 	1 1-2 2 2 2-4 4 5 6-7 8-11 12-15 16		
6.	Chapter 2 : Organization / Maintenance Management			
	 2.1 Introduction 2.2 Aim of Maintenance Management 2.3 Organization Chart 2.3.1 Organization Immigration 2.3.2 Organization MINDA WAJA SDN BHD 2.4 MINDA WAJA SDN BHD Management Scope of work 2.5 Operation Time And Staff 2.6 List of staff 2.7 Quality Policy Of Maintenance 2.8 Responsibilities Of Out Source Contractor 2.9 Summary 	17 18 18 19 20 21 – 30 31 32 33 34 - 37		



7	Char	tor 2 - Maintananaa Baliay And Blanning	
7.	Cnap	ter 3 : Maintenance Policy And Planning	
	3.1	Introduction	38
	3.2	Maintenance policy	39 – 40
		3.2.1 Policy statement in Minda Waja	39
		3.2.2 Policy related to building user of Minda Waja	39
		3.2.3 Organization Minda Waja	40
		3.2.4 Procurement	40
		3.2.5 Monitoring & Feedback	40
	3.3	Maintenance planning	41 – 42
	3.4	Maintenance Programme	43 – 45
	3.5	Maintenance schedule	46 - 60
	3.6	Response time & Duration of work	61
		3.6.1 Flow chart of customer complaints (work order)	62
	3.7	Summary	63
		-	
8.	Chap	ter 4 : Building Design And Technology	
	4.1	Introduction	64
		Building Concept	64
		Building Design	64
		Natural / Artificial Lighting & Ventilation	65 – 69
	7.7	4.4.1 Artificial Lighting	65 - 66
		4.4.2 Natural Lighting	67
		4.4.3 Mechanical Ventilation	68
		4.4.4 Natural Ventilation & Lighting	69
	4.5	Building Construction	70 - 86
	7.5	4.5.1 Basement Construction Work	70 - 00 71 - 72
		4.5.2 Building Elements	73 - 86
	4.6	Building Services	87 – 112
	7.0	4.6.1 Mechanical Transportation	87 - 90
		4.6.2 Telecommunication	91 - 94
		4.6.3 Mechanical Ventilation	91 - 9 4 95 - 97
		4.6.4 Closed Circuit Television System (CCTV)	98 - 97
		4.6.5 Fire system	99 - 108
		4.6.6 Electrical Supply system	109 - 110
		4.6.7 Water Distribution System	111 – 112
	4.7	Building Technology	113 - 115
	7.7	4.7.1 Building control system (BCS)	114
		4.7.1 Building Control System (BCS) 4.7.2 Computer Maintenance Management System	114
		(CMMS)	110
	4.8	Summary	116
		- annia j	



ABSTRACT

Large building is a complex thing to be manage. It must be manage in proper way to prolong the building life and increase the value of the building by avoiding any problem occur that can harm the building and the occupants of the building. To manage a large building, someone must have knowledge on all aspect such as in management aspect and maintenance aspect to handle the property efficiently.

Purpose of this investigation on Immigration building that located at Putrajaya is to reveal the important aspects of maintenance management, technology, design, property, building economic, finance, law, communications, project planning and project management of the building.

Immigration building is a large building category and to control the building is not a easy work. There are many systems to be control and maintain to operate the building. Without proper method of controlling and maintenance the building will not able to operate smoothly.

In this report there are information about how the building is operated. There are include all types of system been used by Immigration building to be operate efficiently. It also provide all aspects that must be taken to operate the building.

In conclusion, a large building is a very complex to be manage. It need a proper management and maintenance to operate the building. Aspects such as maintenance management, technology, design, property, building economic, finance, law, communications, project planning, and project management of the building is a important aspects to operate the building smoothly.



CHAPTER 1

THE DETAILS OF PROPERTY

1.1 INTRODUCTION

This chapter will describes about the detail of the property of Immigration building so that people can understand what are the function of this building and explain how this building system work. This chapter is mention about the building background such as age of building, dimension, building view, location plan, adjacent building, accommodation of the building, facilities provided in this building, and others.

1.2 BUILDING BACKGROUND



Figure 1.0: Immigration Building, Putrajaya

Immigration building construction work is started from 2000 and complete on 2003. This building start to be used on 2004. The cost to construct this building is RM200,000,000.00. This building consist of 10 floors which is 7 floor offices and 3 floor basements. Total gross floor area (GFA) in this building is 688463 sq. ft. and total net floor area (NFA) in this building is 500763 sq. ft. This building is constructed by Putrajaya Holdings Sdn. Bhd. and Jabatan Kerja Raya (JKR) has appointed Minda Waja Sdn. Bhd. to manage and carry the maintenance works for this building.