



**DEPARTMENT OF BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
UNIVERSITI TEKNOLOGI MARA
CAWANGAN PERAK
KAMPUS SERI ISKANDAR**

CONSTRUCTION OF LEAN-TO-ROOF AT WALKWAY

**MUHAMMAD RAIHAN BIN MOHD RAZLAN
(2015263456)
DIPLOMA IN BUILDING SURVEYING**

**PRACTICAL TRAINING REPORT
MARCH – JULY 2018**

**DEPARTMENT OF BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
UNIVERSITI TEKNOLOGI MARA
CAWANGAN PERAK
KAMPUS SERI ISKANDAR**

CONSTRUCTION OF SHED ROOF AT WALKWAY

MARCH – JULY 2018

This practical training report is fulfilment of the practical training course.

PREPARED BY : MUHAMMAD RAIHAN BIN MOHD RAZLAN
SUPERVISING LECTURER : PUAN SITI ZUBAIDAH HASHIM

ACKNOWLEDGEMENT

Assalamualaikum. Alhamdulillah and praise to Allah SWT the Creator, the internship could not be done in time without His Consent. During my internship everything is at ease and I would like to thank Him for the ease of these past four month. My parents also contribute so much helping me during this period. Support from them is so much and only Allah can repay them.

Completion of this internship and report would not be possible without the assistance of my supervisor from Universiti Teknologi MARA, Puan Siti Zubaidah Hashim who taught me a lot regarding my internship and the report. Unlimited examples was given in order to let us understand well among the topics in order to give us the chance to interpret in this report.

I would like to thank my supervisor at Universiti Sains Islam Malaysia, En Md. Azri Arepin and Puan Halina Halim. Their both has taught me a lot during my times here with my internship. Not to forget, En Bazli, En Saiful, and En Zamre that lead me with all the works and tasks here. Guidance from them give me much knowledge and information for my future and hoping with the knowledge, I can becoming better than them and give others the knowledge and share.

Lastly, thanks Universiti Sains Malaysia who give me the chance for me to perform my internship here. Much gratitude from me to them and hoping Universiti Sains Malaysia will becoming the leading Islamic universities across world.

TABLE OF CONTENT

TITLE	PAGE
ACKNOWLEDGEMENT	i
TABLE OF CONTENT	ii
LIST OF TABLES	iii
LIST OF FIGURE	iv
CHAPTER 1 : INTRODUCTION OF CASE STUDY	
1.1 Overview	2
1.2 Location of USIM	
1.2.1 Key Plan	4
1.2.2 Location Plan	4
1.2.3 Site Plan	5
1.3 Company Background	5
1.3.1 Department of Development and Facilities Management Background	6
1.4 Organization Objectives	
1.4.1 Main Organization Objectives	7
1.4.2 Department of Development & Facilities Management (JPPF)	8
1.5 Organization Of USIM	9
1.5.1 Main Organization Chart	8
1.5.2 Development & Facilities Management Organization (JPPF) Chart	10
1.5.3 Civil Engineering Organization Chart	11
1.6 Scope of Works JPPF	12
1.7 Summary	16
CHAPTER 2 : LITERATURE REVIEW	
2.1 Introduction to Roof	18
2.2 Types of Roof	19
2.3 Components of Roof	23
2.4 Shed Roof or Lean-To-Roof	24
2.5 Advantages & Disadvantages of Shed Roof	26
2.6 Summary	26

CHAPTER 3 : INSTALLATION OF SHED ROOF AT WALKWAY	
3.1 Introduction	28
3.2 Project Brief	29
3.3 Specifications & Elements	30
3.4 Construction of Shed Roof	33
3.5 Summary	39
CHAPTER 4 : PROBLEMS & RECOMMENDATION	
4.1 Introduction	41
4.2 Problems & Recommendation	41
4.3 Summary	43
CONCLUSION	44
REFERENCES	45
APPENDIXES	46

LIST OF TABLES

NO OF TABLE	PAGE
Table 1.6.1: Scope of Works of JPPF Units	12
Table 2.3.1: Functions of roof components	23
Table 3.2.1: Project brief	29
Table 3.3.1: Elements of Roof	30
Table 4.2.1: Problems and Recommendation of Project	41