



UNIVERSITI TEKNOLOGI MARA

FACULTY OF CIVIL ENGINEERING

INDUSTRIAL TRAINING REPORT

NUR ASHIKIN BINTI AMDAN

(2013476416)

JABATAN KERJA RAYA SELANGOR, BAHAGIAN JALAN JKR  
SELANGOR, TINGKAT 1 BANGUNAN SULTAN SALSAHUDDIN ABDUL  
AZIZ SHAH, 40582 SHAH ALAM

JUNE 2015

## ABSTRACT

This Industrial Training program is designed to provide students with a paid work experience within a semi-formal academic framework that carries with it official course credit from the UiTM. Other than that, through this internship period, student can see the differences between what they have learned during course and another possible alternative way of doing something in construction field. Thus, students can improve their thinking skill while they faced some task given and possible upcoming problem.

Industrial training is an important phase of a student life. A well planned, properly executed and evaluated industrial training helps a lot in developing a professional attitude. It develop an awareness of industrial approach to problem solving, based on broad understanding of process and mode of operation of organization. During less than 2 month training at Jabatan Kerja Raya Selangor, most of theoretical knowledge that had been gained during the course of studies were applied in certain nature of work that I involved.

As for me, i am so grateful that i had a chance to pass through my internship program within the. Honestly I feel more confident after finish my internship session because personally I had gained much informative lesson and knowledge while being a trainee and I do have a great experience that widely open my eyes to see and think more further about civil engineering field. Through the report I made, I had write and compile all about the organization I work with, little aid of my precious experience, knowledge and also a necessary details process of the project I get involved to complete my industrial report as it is an important element I need to finish and hand in to the lecturer for evaluation phase.

## ACKNOWLEDGEMENT

To begin with, my sincere thanks to Dato' Ir Hj. Mazlan bin Muhammad, Director of Road Department JKR Selangor because he gave us a chance to feel the great experience working in construction field as he send a memo for all of the practical student to move to the site project located at Teluk Pulai Klang. Other people that i have to express my gratitude and high appreciation is Dato' Paul Latimer who gave a permission to JKR to place us under supervision of a few project engineer . It was a great moment working with those technician, project engineer and some labour to gained information about this project.

It is a matter of great pleasure and privilege for me to present this report of 7 weeks industrial training. Through this report, i would like to thank numerous people who contribute a lot of information and guidance till i can finish this report with just a right content. These are numerous people that i would like to express my greatest appreciation because of their help and support :

- ❖ Dato' Paul Latimer, Project Director of Cergas Murni Sdn, Bhd (CMSB)
- ❖ Encik Muhammad Rozi Bin Jaafar, Site technician of JKR
- ❖ Nur Sharmiza Binti Ishak, Quality Control engineer of CMSB
- ❖ Nasron Sihotang, Lab Technician (CMSB)
- ❖ Fadilah Binti Omar, Technician of VAST Consultant
- ❖ Encik Sufian, Project enginer of CMSB
- ❖ Muhammad Faiz Bin Razali, Project Engineer of Teluk Pulai Area (CMSB)
- ❖ Puan Aini Binti Abdul Rahman, Technical Assistant (JKR)
- ❖ Ir Safrina, Project engineer of JKR ( Maintainance Section)
- ❖ Entire staff of CMSB, VAST Consultant and JKR

## LIST OF CONTENT

NO.	TILTE	PAGE
1.	LIST OF FIGURES	1
2.	LIST OF APPENDICES	1
CHAPTER 1: INTRODUCTION		
3.	INTRODUCTION	2
4.	BACKGROUND OF THE COMPANY	3
5.	ORGANIZATIONAL STRUCTURE	6
6.	NATURE OF BUSINESS	7
7.	PRODUCTS	8
8.	CONCLUSION	11
CHAPTER 2: TRAINING ATTENDED		
9.	INTRODUCTION	12
10.	EXPOSURE LEVEL	13
11.	CONCLUSION	17
CHAPTER 3: TECHNICAL REPORT		
12.	INTRODUCTION	18
13.	PROBLEM ENCOUNTERED AND SOLUTION	40
14.	EXPERIENCE GAINED	40
15.	CONCLUSION	41
CHAPTER 4: CONCLUSION		
16.	INTRODUCTION	42
17.	LESSON LEARNED	43
18.	KNOWLEDGE GAINED	43
19.	SUITABILITY OF ORGANIZATION	44
20.	LIMITATION AND RECOMMENDATIONS	44
21.	REFERENCES	46
22.	APPENDICES	47

## LIST OF FIGURE

No	Name	Page
1	Pile Positioning	20
2	Checking on boreholes eccentricity	22
3	Cleaning of base	24
4	Installation of reinforcement cage	25
5	Concreting of bored pile	29
6	Vibro power pack	30
7	Vibro hammer 5 ton	31
8	Extracting temporary casing using vibro power pack	31
9	Isometric view for setup of test instrument	37
10	One of MLT setting point	37

## LIST OF APPENDIX

No	Appendix
1	Summary of Project
2	Pile Cap Drawing - Pier 10 - Pier 13
3	Pile Detail for 1200mm & 1500mm diameter size for pier
4	Pile Testing Point Layout
5	MLT Layout
6	PDA- Calculation to determine height of hammer drop
7	Sample of Delivery Order (D.O) - concrete
	Trial Mix - HANSON