

UNIVERSITI TEKNOLOGI MARA

FACULTY OF CIVIL ENGINEERING

INDUSTRIAL TRAINING REPORT

NUR ADILLAH BINTI KHAIRUDDIN 2013285372

JABATAN PENGAIRAN DAN SALIRAN DAERAH KLANG JALAN TALI AIR, 41000 KLANG, SELANGOR

JUNE 20億

Table of Contents

Contents	
Table of Contents	1
List of Figures	11
Abstract	1
Employment Details	2
Acknowledgement	3
Chapter 1: Introduction	
1.1: Introduction to Organization	4
1.2 : Background of Company	4
1.3 : Organizational Structure	10
1.4 : Nature of Business	10
1.5 : Conclusion	12
Chapter 2: Training Attended	
2.1 : Introduction	13
2.2 : Exposure Level	13
2.3 : Conclusion	19
Chapter 3: Technical Report	
3.1: Introduction to Problems	20
3.2 : Affected Area	21
3.3 : Contract Details and Problems Solving	22
Chapter 4: Conclusion	
4.1: Introduction	36
4.2: Lesson Learned	36
4.3 : Knowledge Gained	37
4.4 : Suitability of Organization	48
4.5 : Conclusion	48
References	49
Appendices	50

List of Figures	Page
Figure 1: Inspection for the failure embankment	14
Figure 2: Slope and detention wall failure	14
Figure 3: Site Inspection at Jalan Dusun	14
Figure 4: One of inspected structure	14
Figure 5: Type of OSD Tank and Its' Location.	15
Figure 6: Detention Pond	16
Figure 7: Trash Screen	16
Figure 8: OSD Tank	16
Figure 9: Reserves Drain	16
Figure 10: Installation of Gabion	17
Figure 11: Floodwall in Kampung Johan Setia	17
Figure 12: Persiaran Hamzah Alang	18
Figure 13: Cempaka Meeting Room	18
Figure 14: Geotextile in Separation	27
Figure 15: Geotextile in Filtration	28
Figure 16: Pavement Structure	30
Figure 17: Gabion's installation design	35
Figure 18: Mattress used in site	35
Figure 19: Installation style of gabion	35
Figure 20: During installation of Gabion wire	51
Figure 21: Installed Gabion wire and rocks filled	51
Figure 22: Installed Gabion wire and rocks filled	52
Figure 23: Gabion wire and rocks used	52
Figure 24: Mattress used	53
Figure 25: The commissioner involved	54
Figure 26: Ambushment	54
Figure 27: House to be demolish	55
Figure 28. After demolishing	55

Abstract

As a student from Universiti Teknologi Mara (UiTM) that is just finish semester four in Diploma in Civil Engineering, I need to go to the industrial training. This report describes my industrial training experience. I spent my internship period at the Ministry of Natural Resources and Environment in Department of Irrigation and Drainage Malaysia (DID). The organization responsible in framing out water, drainage and irrigation system in Malaysia and responds to any complaints by the customer. DID also play a role legislate Construction law to help checking the development whether it is following the characteristic that have been decided by the government as compulsory. I was placed under DID of Klang district in Selangor state, which is just responsible to Klang area. After eight weeks, that is similar to two months I undergo Industrial Training in this Department of Irrigation and Drainage Klang, various knowledge about the real-life experienced and skill question able in studies. At first, I did not want to do my industrial training in DID because I thought that nothing is related to civil engineering except Basic Hydraulics subject. During my internship, I realised that my first expectation is so wrong. DID also handling projects involving construction of bridge, floodwall and retaining wall. The projects are majorly purposed for preventing flash flood. DID also involve in the inspection for any housing or development projects. This knowledge can be made as a foundation to prepare trainee face the real world of works after end the diploma level studies in this institution, Universiti Teknologi Mara (UiTM).

Acknowledgement

The internship opportunity I had with the Department of Irrigation and Drainage (DID) Klang was a great chance for learning and professional development. Therefore, I consider myself as a very lucky individual as I was provided with an opportunity to be a part of it. I am also grateful for having a chance to meet so many professionals who led me though this internship period.

Bearing in mind previous I am using this opportunity to express my deepest gratitude and special thanks to the District Engineer of DID Klang, Ir. Hajj Mohd Nazri bin Yasmin who in spite of being extraordinarily busy with his duties, took time out to hear, guide and keep me on the correct path and allowing me to carry out my project at their esteemed organization and extending during the training.

I express my deepest thanks to Madam Ely Elyani binti Selamat, Assistant District Engineer for taking part in useful decision & giving necessary advices and guidance and arranged all facilities to make life easier. It is my radiant sentiment to place on record my best regards, deepest sense of gratitude to Ms. Siti Fairuz Fadzillah binti Rahmat, Mr. Raja Harun bin Raja Abd. Malek, Mr. Abdul Hakim bin Mokhtar, and Mr. Rajandran Aiyakannu, for their careful and precious guidance which were valuable for my study both theoretically and practically.

I perceive as this opportunity as a big milestone in my career development. Hope to continue cooperation with all of you in the future,

Sincerely,

Nur Adillah Khairuddin.