



**DEPARTMENT OF BUILDING
UNIVERSITI TEKNOLOGI MARA
(PERAK)**

ROAD CONSTRUCTION METHOD

Prepared by:

**MUHAMMAD RAZIQ IMRAN
BIN MOHD RAZIF**

2019429542



اَبُو سَيِّدِي تَيْكُو لُو كِي مَارَا
UNIVERSITI
TEKNOLOGI
MARA

**DEPARTMENT OF BUILDING
UNIVERSITI TEKNOLOGI MARA
(PERAK)**

ROAD CONSTRUCTION METHOD

Prepared by:

MUHAMMAD RAZIQ IMRAN BIN MOHD RAZIF

2019429542

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

FABRUARY 2022

It is recommended that the report of this practical training provided

By

**Muhammad Raziq Imran Bin Mohd Razif
2019429542**

entitled

ROAD CONSTRUCTION METHOD

be accepted in partial fulfillment of requirement has for obtaining Diploma in Building.

Report Supervisor : Ts. Wan Nur Syazwani binti Wan Mohammad

Practical Training Coordinator : Dr. Nor Asma Hafizah binti Hadzaman

Programme Coordinator : Dr. Dzulkarnaen Bin Ismail.

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

FEBRUARY 2022

STUDENT'S DECLARATION

I hereby declare that this report is my own work, except for extract and summaries for which the original references stated herein, prepared during a practical training session that I underwent at Solaris Enterprise for duration of 20 weeks starting from 23 August 2021 and ended on 07 January 2022. It is submitted as one of the prerequisite requirements of BGN310 and accepted as a partial fulfillment of the requirements for obtaining the Diploma in Building.

.....

Name : Muhammad Raziq Imran Bin Mohd Razif

UiTM ID No : 2019429542

Date : 7 January 2022

ACKNOWLEDGEMENT

Alhamdulillah, Praise to ALLAH S.W.T

First of all, I would like to give my gratitude from bottom of my heart for an advice, guidance and knowledge given to me because I was surrounded with amazing people that willing to share their experienced with me even I still in my industrial training. Its my pleasure to meet this kind of people in my internship because I can gather much knowledge while I still learning and working. I can understanding more about construction and learn new skill everyday thanks to Mr. Muner Zaky, Project Manager and Mr. Zainuri for give me a guidance at construction work on site in surveying, leveling, inspect the document about the project and learn the method that been using in the construction. And for En. Azmi, I would like to give all my gratitude for giving me opportunity to join this company and learn a lot from the workers about the construction in site. It's a really meaningful internship for me to be able to gain so much from this company and be able use the knowledge I get while working here for my future if I continued working on this field.

I also would like to thanks all UiTM lecturers that have taught and give everything they could to make sure I can be a competent student and person. I would too using this opportunity to extend my deepest appreciation to lecturers that involved during my practical training time. To Miss Nur Azizah bin Talkis, Supervising Lecturer, Madam Ts. Wan Nur Syazwani binti Wan Mohammad, Report Supervisor, Sir Ts. Dr. Nor Asma Hafizah binti Hadzaman, Practical Training Coordinator, Muhammad Naim bin Mahyuddin, Evaluation Lecturer, Dr. Dzulkarnaean bin Ismail, Programme Coordinator. I will treasured their effort, encouragement, time and idea that they gave to make my practical training successful, and this report will present the valuable knowledge I gain from last few semester and its because of them all.

Last people that I want to give my special thanks is to my lovely parents, because of their encouragement and sacrifices for over the years.

Thank you.

ABSTRACT

Road Construction method. Roads make a crucial contribution to economic development and growth and bring important social benefits. They are of vital importance in order to make a nation grow and develop. In addition, providing access to employment, social, health and education services makes a road network crucial in fighting against poverty. However, currently there is limited research conducted on proper road construction particularly in construction site. Therefore this report will discuss road construction conducted in University Tun Hussein Onn Malaysia, Batu Pahat, Johor. The objective of this report is to explain the method of road construction and the problem occurred while on construction. In addition this study was conducted by using 3 appropriate method by using Observation, Interview and Internet Surfing. As a result the road construction involved 5 essential step to follow. Step one, Site clearance, Step two, Surveying, Step Three, Excavation work, Step four, Leveling, Step five, Landfill, Step six, Compaction, Step seven, Premix work . However, there are problem during the road construction are identified, such as weather, soil condition, machinery and workers default. As a conclusion, knowing the proper road construction method is required for contractors in order to strengthen the knowledge in road construction for their future project.

CONTENTS	PAGE NO
Acknowledgement	i
Abstract	ii
Contents	iii
List of Tables	iv
List of Figures	v
CHAPTER 1.0 INTRODUCTION	
1.1 Background of Study	2
1.2 Objectives	3
1.3 Scope of Study	6
1.4 Methods of Study	8
CHAPTER 2.0 COMPANY BACKGROUND	
2.1 Introduction of Company	11
2.2 Company Profile	13
2.3 Organization Chart	14
2.4 List of Project	19
2.4.1 Completed Projects	21
2.4.2 Project in Progress	23
CHAPTER 3.0 CASE STUDY (BASED ON TOPIC OF THE REPORT)	
3.1 Introduction to Case Study	25
3.2 Subtopic (Based on objective 1)	28
3.3 Subtopic (Based on objective 2)	40
3.4 Subtopic (Based on objective 3)	45
CHAPTER 4.0 CONCLUSION	
4.1 Conclusion	50

REFERENCES

LIST OF TABLES

Table 2.2.1	6
Table 2.4.1	8
Table 2.4.2	8

LIST OF FIGURES

Figure 2.3.1	7
Figure 3.1.1	9
Figure 3.1.2	10
Figure 3.2.1	11
Figure 3.2.2	12
Figure 3.2.3	13
Figure 3.2.4	14
Figure 3.2.5	15
Figure 3.2.6	16

CHAPTER 1.0**INTRODUCTION****1.1 Background of Study**

Road are a method for traveled way on which people, animals, or wheeled vehicles using which is a path. Following the introduction of the wheel about 7,000 years ago, the larger, heavier loads that could be transported showed the limitations of dirt paths that turned into muddy bogs when it rained. The earliest stone paved roads have been traced to about 4,000 B.C. in the Indian subcontinent and Mesopotamia. To help support the movement of legions throughout their empire, the Romans developed techniques to build durable roads using multiple layers of materials atop of deep beds of crushed stone for water drainage. Some of those roads remain in use more than 2,000 years later, and the fundamental techniques form the basis of today's roads (Steve, 2013).

Purpose on choose Non-woven geotextiles is when both soil separation and permeability are required. These products is used when conjunction with other sub-surface drainage solutions. Non-wovens are also typically used beneath rock riprap revetment, where both separation and drainage are critical. As an example, if a new gravel driveway is being constructed over dry or well drained subsoils, it will be desirable for moisture to pass through the fabric in both directions. This set of conditions allows absorption into the subsurface during and after rain events, and conversely facilitates evaporation between wet periods (Everett, 2020).

Since the important of road construction therefore this report will be discovered the road construction method.

1.2 Objectives

There are 2 objectives highlighted in this study:

1. To determined the road construction method.
2. To investigate the problems occurred on site and the solutions to solve the problems.

1.3 Scope of Study

This study is conducted to investigate the road construction method from the site clearance until the project finished. process of road construction from site clearance until the project handover. The target time for the construction to finish for building is 11 January 2022 and for road its in 3 March 2022. The location of the site are in University Tun Hussein Onn Malaysia, Persiaran Tun Dr. Ismail Jalan Kluang Parit Raja, 86400 Batu Pahat, Johor. Common machinery used for site clearance are excavator and backhoe as they had a bucket that can easily dig the soil or crusher run. The used of back pusher are to evenly leveling the soils and crusher run. For compaction of the soil and crusher run for road construction they will use road roller as they are for compacted the ground to lock the gravel in place. The problem occur during transporting the crusher run using lorry 10 tonne, it is where we realize the land are soft and to solve the problem we excavated the land 8 feet deep and landfill it.

1.4 Methods of Study

To gather the information related about the project, There are 3 kind of method to collect the data to create this report.

1.4.1 Observation

This method was done during in the practical training at the site. It is by observe all the aspects and how the workers do their job, by that mean can understand how the road construction are carried out. This method are easily to do it but will not had a clear understanding because this method. Using this method, it is important to record what the activity on a day either by writing it on note book and capture the picture of the work that being done for the day. With the data obtained by using this method, it will share with my Project Manager as he will know either the works are follow the schedule or delay.

1.4.2 Interview

There is another method that can be used aside from the observation which is by interview. With this method it is more efficient especially for practical training, As we know practical student are not aware of how the works are carried on site, so its more better to using this method on practical training. The interview was conducted with Project Manager in order to obtain detailed information regarding about road construction method. Not only that we can gather more precise data from the Project Manager about machinery, method statement for the work and even gather new knowledge for my work experience. There is so much input on making a road construction on site beside the condition of the site.

1.4.3 Internet Surfing

After we get the knowledge about on how the machines works and how the works are carried, It is important to add a little bit extra knowledge on internet from forum, youtube and google to see how the construction of road are performed in more modern country. This method will make us more understanding about uncertain part if its are new method that we did not learn while in class. It will improve our works since our knowledge about construction are increase.

CHAPTER 2.0

COMPANY BACKGROUND

2.1 Introduction of Company

Solaris Enterprise is a company establish since 2004. The company located at NO.3 JALAN BUDI 2, TAMAN INDUSTRI WAWASAN, 83000 BATU PAHAT, JOHOR. Many of their project are located at University Tun Hussein Onn Malaysia (UTHM). The project site that I currently working is under their company, I start my practical on 23 August 2021 until 7 January 2022. With me working here, I can learn a lot of scope of work from start of the project until its finished. I can adapt my skill from learning at University to adapt in here. In my position working here, I learn a lot from the contractor, designer and engineer. Its scope of work are matching with my course in this industry and it is surely the right choice. (Solaris Enterprise company profile, 2018)

2.2 Company Background

Table 2.2.1. Company Background

Company Name	:	SOLARIS ENTERPRISE
Year of Registration	:	2004
Business Contact Info	:	Telephone- 014-2664570
Business Address	:	NO.3 JALAN BUDI 2, TAMAN INDUSTRI WAWASAN, 83000 BATU PAHAT, JOHOR
Business Status	:	Bumiputera

2.3 Company Organisation Chart

Site Project company organization.

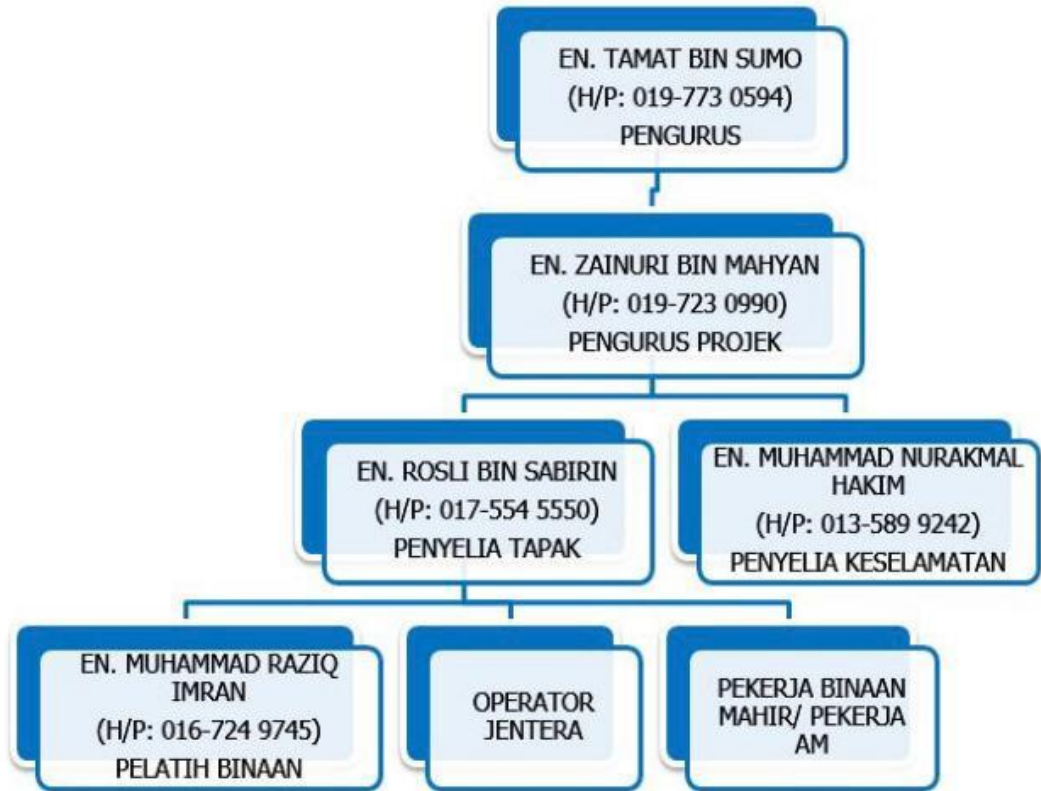


Figure 2.3.1. Site Organization Chart

(Source: Solaris Enterprise, 2020)

2.4 List of Projects

Table 2.4.1 shows the completed project by the company Solaris Enterprise recently. There are 5 completed project done by this company. Meanwhile, table 2.4.3 show the project in progress. Currently, there is 2 project still on progress.

2.4.1 Completed Projects

NO.	Project Title	Start Date	Completion Date	Duration
1.	Project Repaired Senggarang Dam	12/09/2021	06/10/2021	25 Days
2.	Repairing work of Surau Kampung Parit Bengkok Laut	10/10/2021	14/11/2021	28 Days
3.	Work of installing v drain 300mm at Sekolah Agama Mampan	21/10/2021	21/11/2021	28 Days
4.	Work of pavement road at Lorong Hj Hassan	21/10/2021	21/11/2021	28 Days
5.	Cleaning work at area of Kolej Kediaman Tun Dr Ismail and Kolej Kediaman Tun Fatimah At UTHM	19/10/2021	/25/10/2021	7 Days

Table 2.4.1 Completed Project

2.4.2 Project in Progress

NO.	Project Title	Start Date	Completion Date	Status
1.	Proposed Temporary Accommodation Unit Uniform of UTHM	27/08/2021	12/1/2022	Ongoing
2.	Proposed Construct Pavement Road From Taman Universiti to UTHM Mosque and Parking for University Tun Hussein Onn Malaysia	8/11/2021	5/3/2022	Ongoing

Table 2.4.2 Ongoing Project

CASE STUDY (ROAD CONSTRUCTION METHOD)**3.1 Introduction to Case Study**

The projects for road are located on University Tun Hussein Onn Malaysia. The purposed for the road construction is to link Masjid Sultan Ibrahim UTHM to Taman Universiti for an easier access to go the mosque especially on Congregational Prayer on Friday for resident near the Taman Universiti to had a fastest way instead going around outside the UTHM to finally be able to enter Mosque gate. The Road Project start on 15 October 2021 and will be finished on 03 March 2022 with project valued RM 894,020.00. This project are not for public facility, it is for university facilities as they will used the road aside for the congregational prayer, it is too will be using on graduation day at UTHM as it will avoid heavy traffic inside the UTHM.

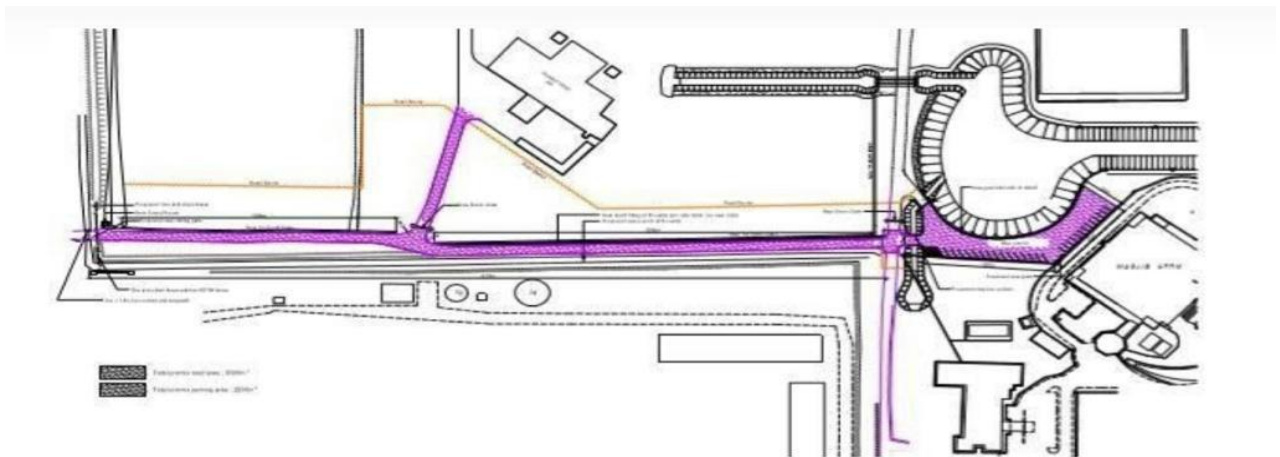


Figure 3.1.1. Site Location



Figure 3.1.2. Project Signboard

3.2 Road Construction Method

To start the road construction there is 7 steps need to be carried out. There is total of 7 steps to completed the project from start until finished.

Step 1

The most important part to start any construction works, is by Site clearance. It is for remove any trash or object at the site for example they will remove bush, grass, and others obstacle such as old drain that need to be remove. To start the process it by using excavator or backhoe. The machine driver will executed the order by following the instruction of the project manager. They will clearing out all the waste using lorry to dump it at other place.



Figure 3.2.1. Site Clearance

Step 2

The equipment to perform Surveying is by using 1 auto level, 1 tripod, 1 staff. Its for to determined the OGL. They will peg all the point and line the road to be straighter. With the OGL we can know the level of the road and will choose one of the highest point to get the level of the road. It is conducted by worker and is supervise by the project manager.



Figure 3.2.2. Surveying

STEP 3

Excavation work will be done by excavator and backhoe. As the new road that will be construct had consist part of the old road, they will excavated around 8 feet of the soil using excavator because of the condition of the soil don't have the strength to let heavy vehicle pass by. The width of the road are 7 meters and the old road only had 4 meter of it. With new soil are 200mm lower than the OGL.



Figure 3.2.3. Excavation Work

STEP 4

The equipment to perform this is by using 1 auto level, 1 tripod, 1 staff. Using this to find level of the premix and with the level of premix they will get the detail about crusher run level, they will tied string at every point to let the driver see the mark much better.



Figure 3.2.4. Checking Premix Level

STEP 5

The workers will landfill the part that have been removed with a new soils. After the landfill, 2 worker required to lay Geo-textiles on top of the soil as its function is to filtered out the water. The Geo-textiles will be closed with 50mm of sand and 300mm of the total crusher run. The machinery that will be use is back pusher or backhoe.



Figure 3.2.5. Laying The Geo-textiles

STEP 6

The compaction work start with using the compaction machinery, road roller. The purpose of road roller is it will give vibration strong enough on crusher run so that it will be glued together with the soil to had more strength to let vehicles pass.



Figure 3.2.6. Compacting The Crusher Run

STEP 7

Premix work will start after compaction step are done. After the road are been level, they will spray the bitumen on the crusher run as it will glued together with the premix. There are 2 type of asphalt cement that will be use, it is AC-14 and AC-20, it will be pour to fill up the road and will be compact again with road roller.

3.3 Problems occurred on site and solutions to solve the problems

There Are many obstacle and problem in the construction world. It is must to be a creative so that when problem happen its can easily facing the problem. The problems that occurred in both of this site is lack of supply that client wanted. To overcome the problem, Project Manager ask the client to hold a meeting to discuss about it and the answer after the meeting is we get to change the material but there will be no additional cost if the price of the material are more expensive than in the BQ. Other than that is the condition of the site. On making progress with the road project, we discovered that the old road are not strong enough for any heavy vehicles to pass due to the contractor are not follow the specific requirement by JKR. We overcome this problem by informing the client to excavate some of it due to weak soil under the crusher run. Soon, new soil are placed to cover the weak soil.

CHAPTER 4.0

CONCLUSION

In conclusion, Practical training will give benefits for students to gather knowledge and experiences about the work field. It is like a preparing them if they want to continued in the work field without know nothing about construction. There is to much things to learn about this fieldwork but once they had a common knowledge about it, it will boost the confidence for them to entered construction work. With this its let student thinks quickly and solve the problem faster and its the most important aspect in construction. The study are focusing on road construction method while emphasizing two main objectives. These are to determine the road construction method and to investigate problems occurred on site and solutions to solve the problems. To achieve these objectives three methods are use such as observation, interview and internet surfing. As a result, there are 7 step are required in road construction this are Site clearance, Surveying, Excavation work, Leveling, Landfill, Compaction and Premix work. It is hope that the knowledge of road construction method from this report will be beneficial to contractors for their guidelines to improve their work in future

.REFERENCES

Web Site:

By Steve Abrams, May 16, 2013. The Unseen History of Our Roads.<https://www.roadandtrack.com/car-culture/a4447/the-road-ahead-road-evolution/>.

By Everett J. Prescott (2020, November 06) The Importance of Selecting and Using the Correct Geotextile Fabric <https://www.ejprescott.com/blog/the-importance-of-selecting-and-using-the-correct-geotextile-fabric>.

Designing Buildings Ltd. 2022 (2021, January 07) Road Construction https://www.designingbuildings.co.uk/wiki/Road_construction






UNIVERSITI TEKNOLOGI MARA

AP116 DIPLOMA IN BUILDING




PRACTICAL TRAINING LOG BOOK



1.	STUDENT'S NAME :	MUHAMMAD RAZIQ IMRAN BIN MOHD RAZIF
2.	UITM MATRIC NO. :	2019429542
3.	H/P NO. :	016-724 9745
4.	HOME ADDRESS : NO. 9, JALAN AKED 1, TAMAN AKED, PARIT RAJA 86400, BATU PAHAT, JOHOR	
5.	ADDRESS OF PRACTICAL TRAINING : SITE PROJECT INSIDE UTHM, UNIVERSITI TUN HUSSEIN ONN MALAYSIA, PERSIARAN TUN DR. ISMAIL JALAN KLUANG PARIT RAJA, 86400 BATU PAHAT, JOHOR	
6.	SUPERVISOR IN-CHARGE 1 : MUNER ZAKY BIN MAULAN H/P : 010-663 0173	
	SUPERVISOR IN-CHARGE 2 : ZAINURI BIN MAHYAN H/P : 019-723 0990	



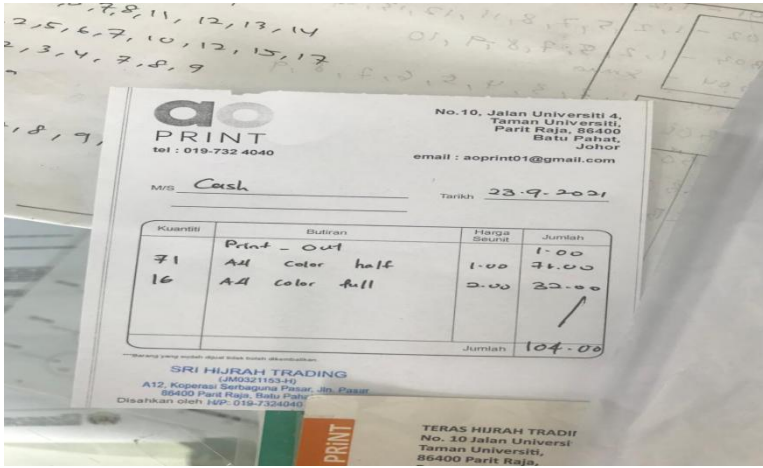
DATE	ACTIVITY	REMARKS
6/9/2021	SET UP BARRIER NEAR THE CRANE WHILE CRANE WORK WILL BE CARRIED OUT. 	
7/9/2021	HELPING ON INSTALLING COLUMN FOR HORDING. 	

DATE	ACTIVITY	REMARKS
8/9/2021	<p>TAKING A PROGRESS PICTURE.</p> 	
9/9/2021	<p>SIGN THE CRUSHER RUN DOCUMENT.</p> 	
10/9/2021	<p>INSTALLING STICKER FOR SIGNBOARD.</p> 	

DATE	ACTIVITY	REMARKS
<p>11/9/2021</p>	<p>VIEWING NEW SITE PROJECT REPAIRING SENGGARANG DAM.</p> 	
<p>12/9/2021</p>	<p>HELPING CUTTING STEEL LINK FOR BEAM.</p> 	
<p>13/9/2021</p>	<p>BENDING STEEL LINK FOR BEAM.</p> 	

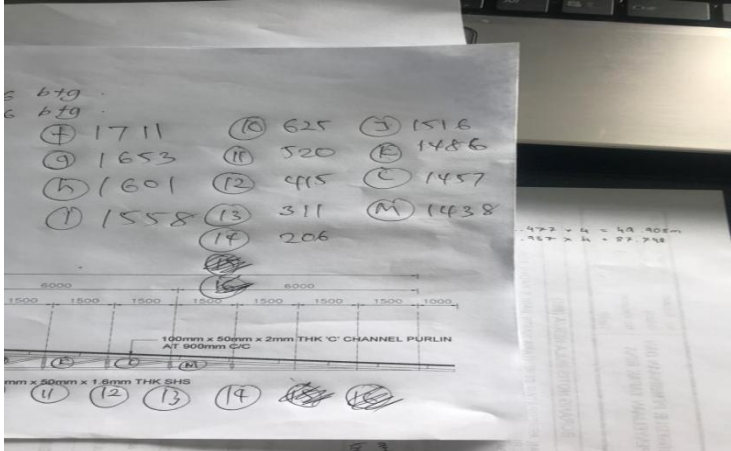
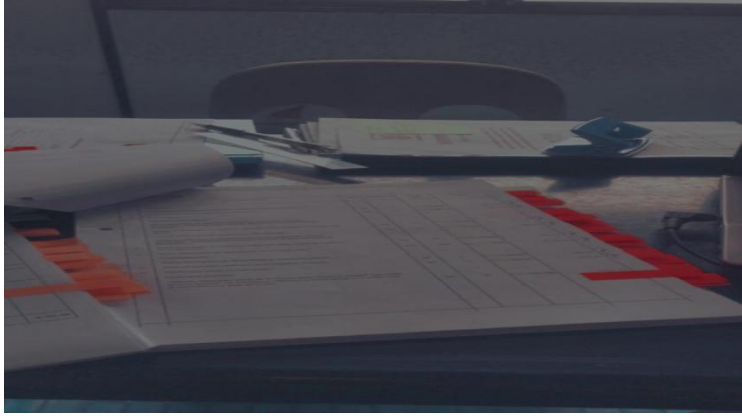

DATE	ACTIVITY	REMARKS
14/9/2021	<p data-bbox="384 239 995 277">HELPING ON INSTALING SCAFFOLDING.</p> 	
14/9/2021	<p data-bbox="384 831 983 869">HELPING ON INSTALLING SIGNBOARD.</p> 	
15/9/2021	<p data-bbox="384 1375 1018 1413">BUYING ITEMS FOR OFFICE EQUIPMENT.</p> 	

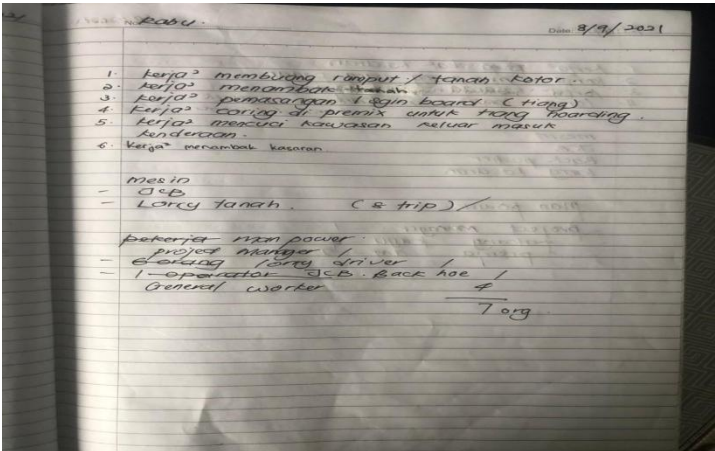
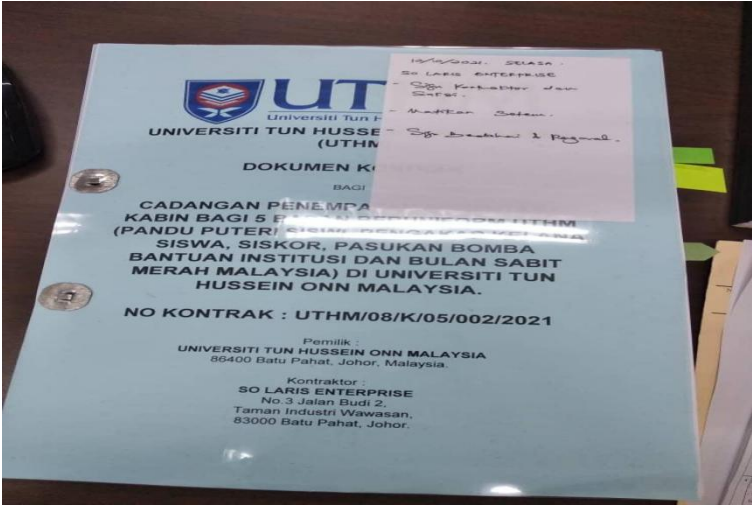

DATE	ACTIVITY	REMARKS
17/9/2021	<p data-bbox="384 239 831 275">TAKING PROGRESS PICTURE.</p> 	
18/9/2021	<p data-bbox="384 837 887 873">HELPING ON INSTALLING BEAM.</p> 	
19/9/2021	<p data-bbox="384 1375 871 1411">SIGNING DOCUMENT FOR BRC.</p> 	

DATE	ACTIVITY	REMARKS																
20/9/2021	<p>MAKE A SLUMP TEST FOR SLAB AND BEAM CONCRETE.</p> 																	
21/9/2021	<p>HELPING TO CURE THE CONCRETE.</p> 																	
23/9/2021	<p>SETTLING THE DOCUMENT FOR PROPOSING AIRCONDITION.</p>  <table border="1" data-bbox="507 1682 995 1816"> <thead> <tr> <th>Kuantiti</th> <th>Butiran</th> <th>Harga Seunit</th> <th>Jumlah</th> </tr> </thead> <tbody> <tr> <td>71</td> <td>Print - Out A4 color half</td> <td>1.00</td> <td>71.00</td> </tr> <tr> <td>16</td> <td>A4 color full</td> <td>2.00</td> <td>32.00</td> </tr> <tr> <td colspan="3">Jumlah</td> <td>104.00</td> </tr> </tbody> </table>	Kuantiti	Butiran	Harga Seunit	Jumlah	71	Print - Out A4 color half	1.00	71.00	16	A4 color full	2.00	32.00	Jumlah			104.00	
Kuantiti	Butiran	Harga Seunit	Jumlah															
71	Print - Out A4 color half	1.00	71.00															
16	A4 color full	2.00	32.00															
Jumlah			104.00															

DATE	ACTIVITY	REMARKS
24/9/2021	<p data-bbox="384 239 954 275">LEVELING DRAINAGE SYSTEM LEVEL.</p> 	
25/9/2021	<p data-bbox="384 790 1050 826">COMPRESSION TEST FOR CONCRETE CUBE.</p> 	
26/9/2021	<p data-bbox="384 1384 1158 1462">COMPLETED THE REPORT IN SLIDE FOR PRESENTATION TO THE CLIENT.</p> 	

DATE	ACTIVITY	REMARKS
27/9/2021	<p data-bbox="384 239 919 275">SITE VISIT AT SENGGARANG DAM.</p> 	
29/9/2021	<p data-bbox="384 875 831 911">TAKING PROGRESS PICTURE.</p> 	
2/10/2021	<p data-bbox="384 1413 823 1449">TAKING PROGRESS PICTURE</p> 	

DATE	ACTIVITY	REMARKS
3/10/2021	<p>CALCULATING HOW MUCH STEEL IS NEEDED TO ORDER FOR ROOF TRUSSES.</p>  <p>Handwritten calculations and technical drawing for roof trusses. The calculations list items 1 through 14 with their respective quantities. The drawing shows a truss layout with dimensions and labels for '100mm x 50mm x 2mm THK C CHANNEL PURLIN' and 'mm x 50mm x 1.6mm THK SHS'.</p>	
5/10/2021	<p>CHECKING THE BQ CLAIM TO MAKE SURE ITS TALLY.</p>  <p>A photograph of a large architectural drawing or blueprint spread out on a table, with a red arrow pointing to a specific section of the drawing.</p>	
6/10/2021	<p>INSTALING BANNER FOR SAFETY IN CONSTRUCTION SITE.</p>  <p>A photograph of a blue metal gate at a construction site. A safety banner is attached to the gate, featuring various warning signs and text. A yellow wheel is visible in the foreground.</p>	

DATE	ACTIVITY	REMARKS
<p>10/10/2021</p>	<p>UPDATE THE SITE DIARY ACTIVITIES.</p> 	
<p>12/10/2021</p>	<p>RECEIVED DOCUMENT FOR CLAIM FROM CLIENT.</p> 	
<p>13/10/2021</p>	<p>TAKING PROGRESS PICTURE.</p> 	

DATE	ACTIVITY	REMARKS
<p>16/10/2021</p>	<p>LEVELING THE COLUMN ON EACH CORNER.</p> 	
<p>20/10/2021</p>	<p>TAKING PROGRESS PICTURE.</p> 	
<p>26/10/2021</p>	<p>TAKING PROGRESS PICTURE.</p> 	

DATE	ACTIVITY	REMARKS
28/10/2021	<p data-bbox="400 271 938 304">ENTERING MEETING WITH CLIENT.</p> 	
5/11/2021	<p data-bbox="400 1090 1169 1162">MEET WITH CLIENT TO GIVE RFI DOCUMENT ABOUT THE ROOF TRUSS ISSUE.</p>	
8/11/2021	<p data-bbox="400 1270 847 1303">TAKING PROGRESS PICTURE.</p> 	

DATE	ACTIVITY	REMARKS
8/11/2021	<p>READ DRAWING PLAN FOR ROAD PROJECT.</p>  <p>The drawing shows a cross-section of a road structure. SECTION A-A details a concrete base with a 2-layer SRC A10 and a 300mm thick rubber run. The overall width is 4100 units. SECTIONAL PLAN shows a 1500x1500 Box Culvert with a 100mm thick top. Material specifications include 1500x1500 Box Culvert, 200mm thick concrete base, 2 layer SRC A10, 300mm thick rubber run, and 100mm thick top.</p>	
16/11/2021	<p>SETTLING DOCUMENT FOR BAKAU PILES.</p>  <p>A white truck is shown with its bed raised, dumping a load of bakau (coconut husks) onto a dirt site. The background shows a landscape with trees and a clear sky.</p>	
17/11/2021	<p>SETTLING DOCUMENT FOR CRUSHER RUN.</p>  <p>A truck is shown dumping a load of crusher run material into a pile on a dirt site. The background shows a landscape with palm trees and a clear sky.</p>	

DATE	ACTIVITY	REMARKS
18/11/2021	<p>TAKING PROGRESS PICTURE.</p> 	
19/11/2021	<p>TAKING PROGRESS PICTURE.</p> 	
19/11/2021	<p>SETTLING DOCUMENT FOR BOX CULVERT AND GUIDED THE DRIVER.</p> 	

DATE	ACTIVITY	REMARKS
20/11/2021	<p data-bbox="400 237 1181 360">DISCUSSION WITH LAND SURVEYOR ON HOW THE ROAD SUPPOSED TO LOOK ALIKE WITH DRAWING.</p> 	
21/11/2021	<p data-bbox="400 831 1181 909">HELPING TO SUPPLY THE BAKAU TO THE GENERAL WORKER WHEN PILING BAKAU.</p> 	
22/11/2021	<p data-bbox="400 1368 1181 1447">HELPING TO WRAP THE CHAIN AROUND THE BOX CULVERT WHEN ISNTALING BOX CULVERT.</p> 	

DATE	ACTIVITY	REMARKS
23/11/2021	SETTLING DOCUMENT FOR BOX CULVERT AND GUIDED THE DRIVER. 	
24/11/2021	HELPING TO SUPPLY THE BAKAU TO THE GENERAL WORKER WHEN PILING BAKAU. 	
25/11/2021	TAKING PROGRESS PICTURE. 	

DATE	ACTIVITY	REMARKS
26/11/2021	<p>SETTLING DOCUMENT FOR ELETRIC ITEM APPROVAL TO CLIENT.</p> 	
27/11/2021	<p>MEASURE THE ROAD LENGTH.</p> 	
28/11/2021	<p>HELPING SITE SAFETY SUPERVISOR ON MAKE SURE SAFETY ON SITE IS PRIORITY.</p> 	

DATE	ACTIVITY	REMARKS
29/11/2021	<p data-bbox="400 248 1181 331">MEASURING THE THICKNESS OF CRUSHER RUN IS THE SAME AS ON BQ.</p> 	
30/11/2021	<p data-bbox="400 842 1062 880">SETTLING DOCUMENT FOR CRUSHER RUN.</p> 	
1/12/2021	<p data-bbox="400 1435 847 1473">TAKING PROGRESS PICTURE.</p> 	



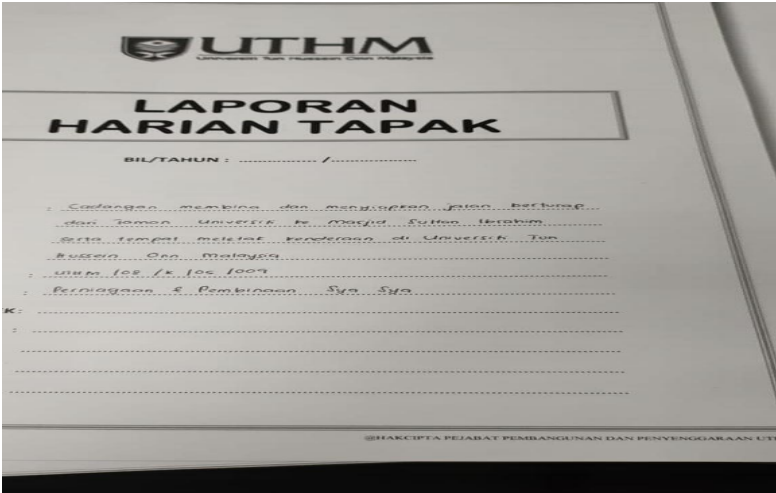
DATE	ACTIVITY	REMARKS																																																																																				
4/12/2021	<p>TAKING PROGRESS PICTURE.</p> 																																																																																					
5/12/2021	<p>COMPLETED MONTHLY REPORT FOR THE PROJECT.</p>  <table border="1" data-bbox="491 1093 1077 1205"> <thead> <tr> <th>Mesyuarat Tabak</th> <th>Tarikh</th> <th>Perancangan (%)</th> <th>Kumulatif Perancangan (%)</th> <th>Kemajuan Sebenar (%)</th> <th>Kumulatif Kemajuan Sebenar (%)</th> <th>Perbezaan Kemajuan Kerja (%)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>26/10/2021</td> <td>24.0</td> <td>24.0</td> <td>23.0</td> <td>23.0</td> <td>1.0 (Lewat)</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">JUMLAH KESELURUHAN:</td> <td>24.0</td> <td></td> <td>23.0</td> <td></td> <td></td> </tr> </tbody> </table>	Mesyuarat Tabak	Tarikh	Perancangan (%)	Kumulatif Perancangan (%)	Kemajuan Sebenar (%)	Kumulatif Kemajuan Sebenar (%)	Perbezaan Kemajuan Kerja (%)	1	26/10/2021	24.0	24.0	23.0	23.0	1.0 (Lewat)	2							3							4							5							6							7							8							9							10							JUMLAH KESELURUHAN:		24.0		23.0			
Mesyuarat Tabak	Tarikh	Perancangan (%)	Kumulatif Perancangan (%)	Kemajuan Sebenar (%)	Kumulatif Kemajuan Sebenar (%)	Perbezaan Kemajuan Kerja (%)																																																																																
1	26/10/2021	24.0	24.0	23.0	23.0	1.0 (Lewat)																																																																																
2																																																																																						
3																																																																																						
4																																																																																						
5																																																																																						
6																																																																																						
7																																																																																						
8																																																																																						
9																																																																																						
10																																																																																						
JUMLAH KESELURUHAN:		24.0		23.0																																																																																		
7/12/2021	<p>SURVEYING THE ROAD LEVEL.</p> 																																																																																					

DATE	ACTIVITY	REMARKS
8/12/2021	<p>TAKING PROGRESS PICTURE.</p> 	
9/12/2021	<p>TAKING PROGRESS PICTURE.</p> 	
13/12/2021	<p>PLACE WORK IN PROGRESS SIGN BOARD FOR SAFETY.</p> 	

DATE	ACTIVITY	REMARKS
14/12/2021	<p data-bbox="400 248 1185 331">MEASURING THE DEPTH OF THE EXCAVATED SOIL.</p> 	
15/12/2021	<p data-bbox="400 837 1185 965">SPREADING THE GEOTEXTILES ON TOP OF SOIL. AND MEASURE THE THICKNESS OF SAND ON TOP OF IT.</p>  	

DATE	ACTIVITY	REMARKS
16/12/2021	<p>TAKING PROGRESS PICTURE.</p> 	
17/12/2021	<p>MEASURING THICKNESS OF CRUSHER RUN FOR THE ROAD.</p> 	
18/12/2021	<p>SETTLING DOCUMENT FOR T-SHAPED FILE.</p> 	

DATE	ACTIVITY	REMARKS
19/12/2021	<p data-bbox="400 248 1185 331">HELPING SUPPLY THE BAKAU TO THE GENERAL WORKER FOR BAKAU PILING.</p> 	
20/12/2021	<p data-bbox="400 842 1185 925">HELPING WRAP CHAINING THE BOX CULVERT TO INSTALL IT.</p> 	
21/12/2021	<p data-bbox="400 1433 1185 1516">HELPING SUPPLY THE BAKAU TO THE GENERAL WORKER FOR BAKAU PILING.</p> 	

DATE	ACTIVITY	REMARKS
22/12/2021	<p>PUMPING OUT WATER FROM THE EXCAVATED SOIL.</p> 	
23/12/2021	<p>TAKING PROGRESS PICTURE.</p> 	
24/12/2021	<p>UPDATING SITE DIARY FOR THE ROAD PROJECT.</p> 	

DATE	ACTIVITY	REMARKS
25/12/2021	<p data-bbox="400 248 1054 286">HELPING CHAINING THE T-FILES CULVERT.</p> 	
26/12/2021	<p data-bbox="400 835 847 873">TAKING PROGRESS PICTURE.</p> 	
27/12/2021	<p data-bbox="400 1433 847 1471">TAKING PROGRESS PICTURE.</p> 	

DATE	ACTIVITY	REMARKS
28/12/2021	<p data-bbox="400 248 1187 331">HELPING THE SUB-CON ON INSTALLING CORRUGATED PIPE.</p> 	
29/12/2021	<p data-bbox="400 842 1187 925">MAKING SURE THE HEIGHT OF THE DRAIN WALL IS THE SAME AS DRAWING.</p> 	
1/1/2022	<p data-bbox="400 1431 900 1469">SITE VISIT OTHER PROJECT SITE.</p> 	

DATE	ACTIVITY	REMARKS
3/1/2022	<p>TAKING PROGRESS PICTURE.</p> 	
4/1/2022	<p>PEGGING FOR EARTH DRAIN.</p> 	
5/12/2021	<p>ALIGNMENT THE ROAD.</p> 	

DATE	ACTIVITY	REMARKS
6/1/2022	ALIGN THE PEG FOR GATE WALL. 	
7/1/2022	TAKING PROGRESS PICTURE. 	



UNIVERSITI TEKNOLOGI MARA
PERAK
KAMPUS SERI ISKANDAR

**BORANG PENGESAHAN SEMAKAN LOG BOOK LATIHAN PRAKTIK
BGN310**

Dengan ini disahkan bahawa saya, MUNER ZAKY BIN MAULAN telah pun membuat semakan terhadap log book pelajar yang bernama MUHAMMAD RAZIQ IMRAN BIN MOHD RAZIF (2019429542), dan mengesahkan bahawa tandatangan dan cop penyelia di log book pelajar ini diperakui.

TANDATANGAN & COP PENYELIA/MAJIKAN:

SO LARIS ENTERPRISE
(JM 0402445-T)
No 3, Jalan Budi 2
Taman Industri Nawasan,
83000 Batu Pahat, Johor.

AP 116

Kumpulan:

Negeri:

REKOD KEDATANGAN LATIHAN PRAKTIK

(Diisi dan disahkan oleh Penyelia)

Nama Pelatih/Pelajar : MUHAMMAD RAZIQ IMRAN BIN MOHD RAZIF

Pensyarah Penyelia Laporan Praktikal : Madam Ts. Wan Nur Syazwani

binti Wan Mohammad

Bulan Kehadiran : SEPTEMBER

TARIKH	H	T.T	TARIKH	H	T.T
	TH	PENYELIA		TH	PENYELIA
1			16	H	
2			17	TH	
3			18	H	
4			19	H	
5			20	H	
6	H		21	H	
7	H		22	H	
8	H		23	H	
9	H		24	TH	
10	H		25	H	
11	H		26	H	
12	H		27	H	
13	H		28	H	
14	H		29	H	
15	H		30	H	
			31		

H – Hadir

TH – Tidak Hadir

Borang ini hendaklah dihantar bersama-sama dengan Laporan

Kemajuan Praktik kepada :

Timbalan Pengarah Kampus

Hal Ehwal Akademik, UiTM Perak

Disahkan Oleh
(Cop Majikan)


SO LARIS ENTERPRISE
(JM 0402445-T)
No 3, Jalan Budi 2
Taman Industri Mawasan,
83000 Batu Pahat, Johor.

AP 116

Kumpulan:

Negeri:

REKOD KEDATANGAN LATIHAN PRAKTIK

(Diisi dan disahkan oleh Penyelia)

Nama Pelatih/Pelajar : MUHAMMAD RAZIQ IMRAN BIN MOHD RAZIF

Pensyarah Penyelia Laporan Praktikal : Madam Ts. Wan Nur Syazwani

binti Wan Mohammad

Bulan Kehadiran : OCTOBER

TARIKH	H	T.T	TARIKH	H	T.T
	TH	PENYELIA		TH	PENYELIA
1	TH		16	H	
2	H		17	H	
3	H		18	H	
4	H		19	H	
5	H		20	H	
6	H		21	H	
7	H		22	TH	
8	TH		23	H	
9	H		24	H	
10	H		25	H	
11	H		26	H	
12	H		27	H	
13	H		28	H	
14	H		29	TH	
15	TH		30	H	
			31	H	

H – Hadir

TH – Tidak Hadir

Borang ini hendaklah dihantar bersama-sama dengan Laporan

Kemajuan Praktik kepada :

Timbalan Pengarah Kampus

Hal Ehwal Akademik, UiTM Perak

Disahkan Oleh
(Cop Majikan)


SO LARIS ENTERPRISE
(JM 0402445-T)
No 3, Jalan Budi 2
Taman Industri Mawasan,
83000 Batu Pahat, Johor.

AP 116

Kumpulan:

Negeri:

REKOD KEDATANGAN LATIHAN PRAKTIK

(Diisi dan disahkan oleh Penyelia)

Nama Pelatih/Pelajar : MUHAMMAD RAZIQ IMRAN BIN MOHD RAZIF

Pensyarah Penyelia Laporan Praktikal : Madam Ts. Wan Nur Syazwani

binti Wan Mohammad

Bulan Kehadiran : NOVEMBER

TARIKH	H	T.T	TARIKH	H	T.T
	TH	PENYELIA		TH	PENYELIA
1	H		16	H	
2	H		17	H	
3	H		18	H	
4	H		19	TH	
5	TH		20	H	
6	H		21	H	
7	H		22	H	
8	H		23	H	
9	H		24	H	
10	H		25	H	
11	H		26	TH	
12	TH		27	H	
13	H		28	H	
14	H		29	H	
15	H		30	H	
			31		

H – Hadir

TH – Tidak Hadir

Borang ini hendaklah dihantar bersama-sama dengan Laporan

Kemajuan Praktik kepada :

Timbalan Pengarah Kampus

Hal Ehwal Akademik, UiTM Perak

Disahkan Oleh
(Cop Majikan)


SO LARIS ENTERPRISE
(JM 0402445-T)
No 3, Jalan Budi 2
Taman Industri Mawasan,
83000 Batu Pahat, Johor.

AP 116

Kumpulan:

Negeri:

REKOD KEDATANGAN LATIHAN PRAKTIK

(Diisi dan disahkan oleh Penyelia)

Nama Pelatih/Pelajar : MUHAMMAD RAZIQ IMRAN BIN MOHD RAZIF

Pensyarah Penyelia Laporan Praktikal : Madam Ts. Wan Nur Syazwani

binti Wan Mohammad

Bulan Kehadiran : DISEMBER

TARIKH	H	T.T	TARIKH	H	T.T
	TH	PENYELIA		TH	PENYELIA
1	H		16	TH	
2	H		17	H	
3	TH		18	H	
4	H		19	H	
5	H		20	H	
6	H		21	H	
7	H		22	H	
8	H		23	H	
9	H		24	TH	
10	H		25	H	
11	TH		26	H	
12	H		27	H	
13	H		28	H	
14	H		29	H	
15	H		30	H	
			31	TH	

H – Hadir

TH – Tidak Hadir

Borang ini hendaklah dihantar bersama-sama dengan Laporan

Kemajuan Praktik kepada :

Timbalan Pengarah Kampus

Hal Ehwal Akademik, UiTM Perak

Disahkan Oleh
(Cop Majikan)


SO LARIS ENTERPRISE
(JM 0402445-T)
No 3, Jalan Budi 2
Taman Industri Mawasan,
83000 Batu Pahat, Johor.

AP 116

Kumpulan:

Negeri:

REKOD KEDATANGAN LATIHAN PRAKTIK

(Diisi dan disahkan oleh Penyelia)

Nama Pelatih/Pelajar : MUHAMMAD RAZIQ IMRAN BIN MOHD RAZIF

Pensyarah Penyelia Laporan Praktikal : Madam Ts. Wan Nur Syazwani

binti Wan Mohammad

Bulan Kehadiran : JANUARY

TARIKH	H	T.T	TARIKH	H	T.T
	TH	PENYELIA		TH	PENYELIA
1	H		16		
2	H		17		
3	H		18		
4	H		19		
5	H		20		
6	H		21		
7	H		22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		
14			29		
15			30		
			31		

H – Hadir

TH – Tidak Hadir

Borang ini hendaklah dihantar bersama-sama dengan Laporan

Kemajuan Praktik kepada :

Timbalan Pengarah Kampus

Hal Ehwal Akademik, UiTM Perak

Disahkan Oleh
(Cop Majikan)


SO LARIS ENTERPRISE
(JM 0402445-T)
No 3, Jalan Budi 2
Taman Industri Mawasan,
83000 Batu Pahat, Johor.

