

FACULTY OF CIVIL ENGINEERING

INDUSTRIAL TRAINING REPORT

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JULY 2019

ABSTRACT

Assalamualaikum w.b.t. My name is Sara Alya Luqman Bt Zalimie Sham, student from the Faculty of Civil Engineering Universiti Teknologi MARA (UiTM) Cawangan Johor Kampus Pasir Gudang. The main reason engineering students need to do Industrial Training (IT) is so they are well prepared for a graduate job in their chosen field. It is a chance for us to put what we have learned at university to work in the kind of real-life situations we will come up against when we start our career.

First of all, this report is about my industrial training that I have been going through for two month, which is 8 weeks from 8 July 2019 until 30 August 2019 at **Perunding ZMS**. I choose this place as my location for industrial training is because it near to my home town. The reason I choose to do my internship locally because I believe that I will gain a lot of experiences which I have yet to explore whether it is related my course or anything that related to real life as an engineer. This internship is a great experiences for me to learn and improve as well as to develop new sets of skills.

Nevertheless, my experience having an industrial training at the **Perunding ZMS** can really teach me about working condition and the working attitude in the organization itself. This report consists of four main chapters. In this report, I will tell about my company background, which is for me is a very basic thing to have in a report. This report also consists of organization chart, vision and mission of the company. All about the company is in the chapter one while in the chapter two consists of weekly summary based on my logbook. In the chapter three, it is about a technical report. In that chapter, I tell about what I learned. Last but not least, in the chapter four is about the conclusion of my report, which is about what do I get from undergo through the industrial training. That is all about my report that I can share about. I hope with this information can really taught me something about working for the private sector.

ACKNOWLEDGEMENT

Alhamdulillah, all praises to Allah for the strengths and His blessing in completing this report exactly within given time. First and foremost, special appreciation goes to my supervisor, Ir. Mohd Fauzi Bin Sani as Technical D who had taken a lot of efforts to arrange our industial training between us and our employer. Not forgotten, my appreciation to Mr. Saaidin Bin Abu Bakar as a Managing Director, for giving me such a good opportunity to get more knowledge regarding this report.

Secondly, I would like to express my sincerity to Admin & Account Department especially Mrs. Zairina and Mrs. Sabariah for their cooperation, knowledge and endless patience. Their cooperation indeed helped me, hence my work became easier and faster.

Besides, I would like to extend my gratitude to the Drainage Engineer, Mrs. Norhayaty Binti Sukardy for sharing knowledgewith me. In addition, I would like to presenting my honor to Mr. Ahmad Imanuddin Bin Md Akhir, Geotechnical Engineer as well as Mr. Ahmad Adib Bin Saaidin, Road Design Engineer for their kindness and his trust for giving me the opportunity to learn more detail about civil engineering.

And at the same time, a deepest thankful given to Technical Executive & Drafter, purposely to Mrs. Aieda Mohd Yunus, Mr. Kamarul Shariman and Mr Zamzarifa Zainal, who had taken a lot of effort to give a guideline during working process in using autocad system. My acknowledgement also goes to all the officer and office staffs of **Perunding ZMS** management for their technical knowledge. Last but not least, I would like to express my heartfelt gratitude to my family, friends and also lecturer for their support, constructive suggestion and also helpful criticism.

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CHAPTER 1.0: INTRODUCTION

1.1 INTRODUCTION

Industrial Training module is a main component in the learning academic for Universiti Teknologi MARA (UiTM) Cawangan Johor Kampus Pasir Gudang. Industrial training is one of the compulsory courses for every UiTM under the Faculty Civil Engineering semester 5. Every student bounds to be involved in industrial training for 8 weeks during the semester break in order for him or her to get his or her diploma certificate.

The industrial training was carried out the main purpose of the industrial training is to produce graduates who are ready and capable to face their profession academically or non-academically with a high professionalism appearance.

Other than that, the industrial training exposes the students about the real situation of the working class citizen. The industrial training also helps in developing social skills in the students such as communication skills, presentation skills, management skills and etc. Furthermore, to expose the students to the real life working experience and expanding the knowledge in their specific field. They will also learn what they need to do in order to finish their works. This will prepare the students so that they will easily fit in and fulfill the demands of their profession after they finish their course.

Nowadays, construction in Malaysia has grown rapidly. As far as we can see, highways and buildings are the most obvious development has been done. Nevertheless, many of us had played their role perfectly, because to construct a building it is impossible for one man's job. As example, developers, contractors and consultants are all included in any projects, and behind the organization there must be civil engineers. The company that is going to be introduced is a consultant firm that has been operating since last two years.

1.2. BACKGROUND OF THE COMPANY

1.2.1 Background Of Perunding ZMS Sdn Bhd.

Perunding ZMS Sdn Bhd (ZMS) commenced its business as geotechnical design consultants in December, 2000. Initially, our focus was on providing services as Independent Geotechnical Checker and Slope Failure Rehabilitation Design.

In the intervening years, we have expanded to become a full-fledge consultancy outfit for undertaking design and engineering work for roads, bridges, buildings and drainage systems. We have sufficient number of professionals capable of doing a multitude of project assignments.

ZMS is duly registered with Ministry of Finance and under Engineers Registration Act. Our company is 100% owned by Bumiputera and operated by Bumiputera professionals having the necessary experience and knowledge to undertake a diverse range of design and engineering consultancy assignments.

Our clients vary from the Government federal and local authorities and local contractors. With the combined experience of our technical team, we are well positioned to take on from minor civil engineering structures to diverse infrastructure and utility projects. The categories of major projects undertaken include:

- Slope engineering and design
- Infrastructure and utilities for building projects
- Highways and bridges
- Flood mitigation and river rehabilitation







Figure 1.2.1.1 Perunding ZMS Sdn Bhd logo

Logo Perunding ZMS reflect on the areas in the civil and structural consulting engineering. Our scope of services includes highway, bridge, building, and drainage design work. We could provide turnkey and 'design and build' services through collaboration with our various associates. The company also has the capability to deliver various related services including Project Management, Geotechnical Investigations, and Mechanical & Electrical services.



Figure 1.2.1.2 Map

Figure 1.3: No 9-2, Jalan 11/62A, Bandar Menjalara 52200 Kepong, Kuala Lumpur.

1.3 ORGANIZATION STRUCTURE

ORGANIZATION CHART

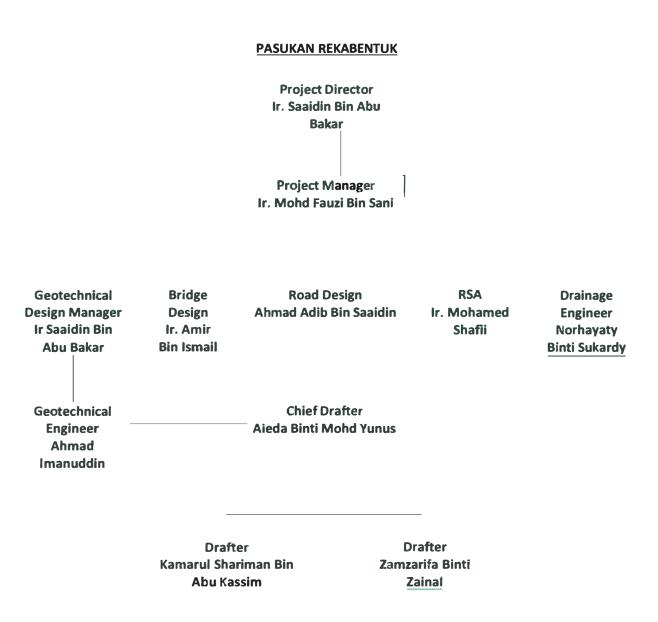


Figure 1.3.1 Design Office Organization chart

RE Ir. Mohd Fauzi Bin Sani ARE 1 Ahmad Adib Bin Saaidin Akhir

PASUKAN PENYELIAAN

Figure 1.3.2 Site Investigation Organization chart

COW 2

Ammar Izzuddin

COW 2

Zamzarifa Bin Zainal

COW 1

Mohd Nizam Bin

Kamaruddin

1.4 NATURE OF THE BUSINESS

Consultant in Civil Engineering id to provide expert advice on design, planning, and management which cover all type of construction. In construction, engineer as consultant helped client make sound preparation for project and to ensure that contractors complete the project on cost. It helped provide cost estimation, draw budget, select contractor, administer construction. They also helped to resolve differences between contractor and project owner. Therefore, there are a few things to prepare before start surveying which is preparation documentation that need to look. Documentation that need to be prepare is tender which it will help in understanding maintenance of any type of structure according to the needs of client.

Revealing the function and roles of the consultant to the public, it also aims to obtain information and feedback to the consultant company with more easy and faster line with client. Hence, this type of information by collecting data and picture in the website may disclose to general function and objectives of the consultant so that the public can find out the consultant company's roles in distributing to national development.

1.5 PRODUCT

1.5.1 PROJECT MANAGEMENT

1.5.1.1 Project Management and Supervision

The desired quality is achieved through **ZMS's** disciplined approach to project management systems involving the preparation of a detailed Project Management Plan for every project undertaken. These includes:-

- Methods statements for all main activities
- Strategy and structure for managing the project
- Planning and control framework
- Quality control programmed
- Resources utilization
- Procurement and material control
- Health, safety and environmental programmed

1.5.2 Geotechnical Services

ZMS provides a comprehensive range of geotechnical services related to civil engineering and building construction. These include:

- General field investigations
- Standard penetration test
- Plate bearing test
- Soil characteristics and strength test

1.5.2 Design and Build Project

In 'Design and Build' projects undertaken by the company, we had planned for designed, bid and executed several public and institutional projects. The approach calls for total responsibility in implementing the project management, engineering, construction and other related activities to successfully deliver the project to the satisfaction of clients. In augmenting our services in the engineering and construction business, *ZMS* has formed strategic alliances with architects and other technical consultants, as well as various companies in order to allow for maximum flexibility in the delivery of services. With its team of qualified and experienced technical personnel *ZMS* is able to undertake a range of design and engineering services. These cover all aspects of project development, from feasibility study through project execution, and maintenance work. Examples of services provided are:

- Infrastructure and utility project proposals
- Highway and bridge designs
- Solutions for rehabilitation of civil engineering structures
- Miscellaneous engineering and technical support activities in performing the various types of proposals and contracts

1.5.4 Facilities

ZMS's headquarters is located at Bandar Menjalara, Kepong, Kuala Lumpur. The office is equipped with security control, computer facilities, modern digital phones and facsimile system.

1.5.5 Quality Assurance

It is our policy to continually enhance the use of information and communication technology in line with our strategy to thrive on knowledge. Computer-aided engineering and project management are therefore an integral part of **ZMS**'s operations.

1.5.6 Software

Software available includes project management, civil engineering design and analysis, planning and control, 3D-modelling, general-purpose office software, and graphics packages. Examples of softwares used are:

- Microstrand for structural analysis
- MX Road
- Moss for highway design
- CivilCad for highway design
- Slope/W for slope stability analysis
- Orion
- TEDDS
- Infra Package C
- Urban Stormwater Design
- Drain Network Analysis And Design
- WaterRec
- Earthworks Computation
- AutoCAD 2011

1.6 MARKET STRENGTH

Project in the previous job act as reference for client to check company information and quality. Therefore, these methods used to attract client through company previous job. These in based on client whether they satisfied with company services. As they satisfied, we will provide a proposal to client which are technical and financial proposal. These proposals contain all method that company used for the project and whether client accept or not. Therefore, I would be grateful if you can provide feedback and comment to us in order to improve the quality of our services.

1.7 CONCLUSION

Many things can be exposed to students when they joined developers, consultants or contractors. A lot we can learn from the company that we joined for industrial training, we have been exposed to various type of company that done civil engineering scope, it will lead us to choose the suitable job that we interested to. Thus, it is a must for students to join and understand the scope of their job.

CHAPTER 2.0: TRAINING ATTENDED

2.1 INTRODUCTION

In this period, Industrial Training had showed me many things throughout the industrial training activities. Although it only took 8 weeks from 15 July 2019 until 6 Sept 2019, and it is considered a short period, but overall I have been exposed to so many compliances whether in academics or even on soft skills.

2.2 EXPOSURE LEVEL

Week 1 (15th-19th July)

- > Introduced to all staff
- > Calculate invoice claim by using excel
- > Calculate mileage transportation using excel for project 'Felda Waha, Sedili'
- > Check arrangement report 'Siasatan Intergriti Struktur'
- > Checked drawing borehole using Autocad
- > Folded A2 size drawing to A4 size
- > Draw plan house using Autocad
- > Type content for 'Senarai Semakan Dokumen Mandatori Cadangan Kos' by using
- Write 'Format Pengiraan Keseluruhan Anggaran Kos Perunding'
- > Site at Desa Park City

Week 2 (22th-26th July)

- Write document 'Penyerahan Projek Jalan & Dokumen JKR' using excel
- > Photostate document
- > Learn detailed about excel and guided by Encik Fauzi
- > Check CV staff for tender 'Felda Waha, Sedili'
- > Type tender for project '2nd Bridge, Penang'
- ➤ Check technical proposal for project '2nd Bridge, Penang'
- ➤ Check CV staff involved for project '2nd Bridge, Penang' and attached with their certificate

Week 3 (29th July-2nd August)

- Make a copy tender '2nd Bridge. Penang' for financial Proposal
- Make a cover page for envelope using word
- > Learn how to bind document using binder
- > Learn how to combine all pdf into one pdf using adobe acrobat
- > Print and scan document for tender' Felda Waha, Sedili'
- > Photostat and scan certificate staff involved
- > Added CV Encik Ammar and check format CV
- > Create organization chart using excel
- > Printed document 'SoilPro Technical Services Sdn Bhd'

Week 4 (5th -9th August)

- Print and scan document 'Borang A: Penyediaan Pelan Pengurusan Lembaga Sunagi Bersepadu'
- > Draw table for list of figure, list of table, appendices and table of content using word
- > Learn how to make report
- > Learn how to apply supplier registration for Syabas using internet.
- > Scan company profile
- ➤ Photostat account statement from May 2019- June 2019
- > Checked and printed organization chart using word
- > Checked calculation on mileage transportation using excel
- > Checked drawing 'Semakan Pra-Penyerahan kepada UPNM' using Autocad

Week 5 (13th-16th August)

- > Print document 'Surat Pelepasan Gemas' and attached to technical proposal
- > Checked and send to Encik Fauzi via email
- > IT Visit presentation about experience gained during training
- ➤ Learn more detailed about contract document for 'Menyiapkan Baki Kerja-kerja Yang Tertinggal Untuk Projek Menaiktaraf Persimpangan Jalan Serdang, Raya Puchong, Sungai Besi'
- > Print and scan document 'Geotechnical Report' and make another copy
- > Write document 'Sijil Pemenriksaan Visual' using word
- Created separator for 'Siasatan Integriti Struktur di Pusat Universiti Kebangsaan Malaysia' using word
- > Print document 'Sijil Pemeriksaan Visual' and attach to file 'Siasatan Struktur di Pusat Kebangsaan Malaysia'

Week 6 (19th-22th August)

- > Folded A3 size drawing to A4 size
- Make list of drawing of UPNM using Autocad
- > Recalculate the financial proposal for 'Felda Waha, Sedili' using excel
- > Added staff name in organization chart
- > Insert CD for softcopy and binding document 'Tender Financial Proposal Gemas'
- ➤ Binding document project 'Membina 24 unit Rumah Teres di Setapak' which contain three of it.
- > Rename all drawing number and title and convert into pdf.

Week 7 (26th – 30th August)

- Make list of drawing for 'Masjid UiTM Pahang' using Autocad
- > Checked and do correction on list of drawing 'Masjid UiTM Pahang' in term of drawing number and title using Autocad
- > Checked drawing plan based on list of drawing in term of drawing number and title for project 'PSKN'
- Learned how to print and folded A1 size drawing
- Convert drawing acad to pdf using autocad and print all drawing UPNM including cover and separator
- ➤ Write document 'Section 4: Taking Over, Inspection, Testing, Commissioning and Over Linear Park Sewerage Network.
- > Added 'Plan Layout Site Investigation' drawing into list of drawing and attached with other drawing

Week 8 (3rd – 6th September)

- ➤ Learned how to compress many acad drawing into one compressed zip folder for project UPNM and project 'Bungalow Melaka'
- Learned the easy way to use autocad with a guide of Encik Kamarul and Encik Fauzi
- > Print 'Site Investigation Report Desa Park City' and make another copy as a reference
- > Print drawing for project 'HUKM' in A3 size
- ➤ Learned more about document contract for project 'Menyiapkan Baki Kerja-kerja Yang Tertinggal untuk Projek Menaiktaraf Persimpangan Serdang, Jalan Puchong Sungai Besi'

2.3 CONCLUSION

During that training period, I learned a lot of knowledge that does not have during my studies. From this training, I learned to know the different between studies and the real life working as an engineer. Many things can be exposed when they join consultant, developer or contractor. I also learned many things through various type such as communication. This training has opened up more my interest as student of civil engineering in order to learn more detailed of civil engineering works.

CHAPTER 3.0: TECHNICAL REPORT

3.1 INTRODUCTION

Consultant in Civil Engineering id to provide expert advice on design, planning, and management which cover all type of construction. In construction, engineer as consultant helped client make sound preparation for project and to ensure that contractors complete the project on cost. It helped provide cost estimation, draw budget, select contractor, administer construction. They also helped to resolve differences between contractor and project owner. Therefore, there are a few things to prepare before start surveying which is preparation documentation that need to look. Documentation that need to be prepare is tender which it will help in understanding maintenance of any type of structure according to the needs of client.

3.2 EXPERIENCE GAINED

Tender can be described as documentation that provide services required or supply the goods. This documentation how their company will solve business problem using their method. There are three roles of tender which is overview of company, response section and pricing section. Overview of company is the background of company and their quality in the previous project.as for response section, the company response and client response based on this tender. The pricing section is where all the cost or amount that need to use for project. Therefore, there are two type of tender which is technical proposal and the financial proposal.

3.2.1 Technical Proposal

Technical proposal is a documentation where they introduce their product to client and to explain the method use that can solve the recipient issue. As for client, they can identify the company's plan for execution. Therefore, the easier way to know the company's background is by providing technical detailed of the deals. Other than that, this proposal is provided to understand that proposal document has other critical function and need to be of good quality to serve the client needs. In the technical proposal, there appear the agreement document and consultant technical proposal such as:-

- > Letter of Acceptance
- > Project information
- > Guidelines for technical proposal

3.2.2 Guideline for Preparation of Technical Proposal

FORM A

Form A is the declaration form where all information and accompanying document is truthful, complete and correct. This form is a sign form on the information.

FORM B

Form B is the general information and consultant background. This form is known as the company's profile or company background.

FORM C

Form C is about the financial data of company. It contains of monthly account bank statement for latest twelve months.

FORM D

Form D is the company's experience within last five years. This form is including copy of certificate/confirmation of completed project/studies and letter of acceptance for each of the completed project/studies.

Project	Contract	Scope of	Consultant	Duration	Commence	Completion	Name &
Name	Sum	Consultancy	Cost	of	Data	Data	Address
		Services		Services			Employer

Table 3.2.2.1 Experience Record

FORM E

Form E is a technical staff including curriculum vitae based on standard format containing basic information. All CV staff that involved in project are included and certificate are attached together according to their CV.

FORM F

Form E is known as project implementation. This section is given with detailed activities using Microsoft Office Project based on the term of reference.

FORM G

Form G is the methodology section. This section described the scope of Independent Checking Engineer (ICE) services for Rest & Service Area (RSA). This section is check and review all designed proposed by consultant during design stage including:-

- > Carry out Design Checking and overall review of all design input parameters
- > Review and comment on Final Design Report
- > Prepare design check report
- > Checking drawing and associated schedule
- Ensure that design review and necessary changes in design/working procedures which made by designer or contractor
- Design coordination with Contractors

FORM H

Form H is a quality assurance program. This form is contained with firm's staff competency development program, innovation carried out and to be implemented and ISO/MS-ISO (certificate/ in process of certification).

3.3 PROBLEM ENCOUNTERD AND HOW TO OVERCOME IT

3.3.1 PROBLEM ENCOUNTERED

There are many major and minor problem during preparing these tenders documentation. Sometimes a few errors done by contractor or a consultant. Therefore, this problem must be solved. These are few problem can be highlights:-

- > Last minutes datelines
- > Prepare and not checking
- > Risk management
- > Does not have a clear view about what tendering process will achieve
- > Tender still requires robust business requirement

3.3.2 THE SOLUTION

Due to several analysis and observation, management have done to construct the best way to reduce the mistakes. To ensure the work done properly, there are few solutions can need to do as guidelines:-

- > Check standard and specification of material to be used in building
- > Check design loading for both gravity load and lateral load acting on the structure
- Verify key element of structure and mechanical & electrical which being designed are consistence
- > Perform independent calculation with view to determine the adequacy of key structural element of the building
- > Check stability of structural system
- Ensure all work is practical and viable and potential damage to adjoining properties during construction of the proposed building is minimized and public safety is not endangered

3.4 **CONCLUSION**

Consultant play a big role in the project which is by giving their best in advice, planning and designing the project. This can be seen during the tender documentation in order to make a easier way to understand the method they used. These documentation is giving a good condition by preparing the tender. In addition, consultant may be giving a many benefit as their objective construct.

CHAPTER 4.0: CONCLUSION

4.1 INTRODUCTION

Being exposed to industry during diploma is really valuable whereby it helps to learn new things

and know what industrial training actually all about. It does bring benefits to students to face the

real world in the future and know the real scope of engineering world. Diploma in Civil

engineering is not only about what we learned during our learning process, but also how we

could contribute to the country and society as well. Other than that, from this industrial training

student could see which part they should improve more, and they should have learned a lot of

things that they don't get in the class, especially soft skills. Thus, students should be very

grateful for getting this opportunity.

4.2 <u>LESSONS LEARNED</u>

70% of development came from on-the-job activities and action learning. 20% of development

came from interactions with others, and another 10% of development came from training. Thus,

author had gotten so much skills that is being useful.

Technical

Basically many designs scope has been exposed to the author and some of engineering

software has been used during the designing work such as E-Tabs, Auto-Cad and more. Besides,

to check the calculations and values of the analysis also can be check by creating your own

spreadsheet through Microsoft Excel. Off course with this software we can do our work more

efficient.

[27]

4.3 KNOWLEDGE GAINED

4.3.1 SOIL INVESTIGATION

Boreholes is a deep verticle holes with small diameter drilled into the ground to obtain soil samples for soil investigation required for the construction of suitable foundation for the planned structure. There are a few methods to determine the soil strength such as Standard Penetration Test (SPT). The soil samples are takes to get values such as c, k and ø in order to use the given formula to get consolidation settlement. There are a few of machines can be used to get the soil samples.

During my Industrial Training, I got an opportunity to get the knowledge how they collect soil samples for testing. Even though I have learned in my studies but for the first time I get to know the procedure that needs for investigation. The machine that they used to collect soil samples is Borehole Drilling machine.



Figure 4.3.1.1 Boreholes Drilling Machine

Borehole Drilling machine is machine that dig the soil into the ground. When I was in a site visit at Desa Park City, they dig the soil using the Borehole Drilling machine in order get the soil sample. They dig that ground until they reach the rock layer. This type of machine used to estimate the criteria soil strength. Mostly they dig around SPT 50 for 5 casing set.

4.5 **SUITABILITY OF ORGANIZATION**

Nowadays, we heard many post-graduates were unemployed. It might because of inadequate experience or they are being too choosy. That's why it is important for diploma students to have industrial training so that they could prove their ability and in the future they might be offer for a position in the organization, and this organization is really suit for practical students to have their industrial training.

In addition, this organization is good in many aspects, such as they gave suitable task for students to finish, they even considered the results that we have done and correct it patiently. Besides, the senior engineers are willing to share their knowledge and never feel tired to answer the question.

Nonetheless, they provide suitable rate of allowance for industrial training's students.

Although it took some times for students to adapt with office environment, it is good for those who are more interested in doing designing jobs rather than staying at site and being a site engineer.

Nevertheless, working in a small consultant office can train us to apply all the knowledge we had learned in the class before, means all scope of designing works we have to do, no matter substructure or superstructure. If we work in a big company, we might have to stay at a specific department and only apply some of the knowledge.

Thus, it is suitable for student to come back to work with this company. After all student that has been offered to come back should take that opportunity and do not be too greedy to go for other big company as their salary is higher. Last but not least, work hard now if you want to be success.

4.6 LIMITATIONS AND RECOMMENDATIONS

For my opinion, the industrial training should have brought benefit for the students. We really hope that each student gain knowledge and experience throughout this 8 weeks of industrial training. It is such a waste if students itself doesn't know how to appreciate it. However, there are still many aspects that can be improved.

First, students that went to consultant office do not being prepared with fundamental of design. The superior has been expecting so much, that they thought students can help them to do designs task. It is nothing to be shocked of when there are some students are not being appoint to do any jobs or task, they are even being abandoned. We don't fully blame the superior for their insufficient. Because as we know, they are so busy to rush the due date for a project and it is impossible for them to give any task. Thus, it is important for students to have at least study the fundamental of design or structure first.

Nonetheless, students are more suitable to join contractor and developer because the chances for students to go to site are higher. As it is more things that will be exposed to them. Students can't only gain knowledge and experience from professional and seniors' engineers, they can also gain it from layman. If and only if, students can start doing their practical when they are already in or after part 5 because during that time they already have more fundamentals.

Nevertheless, some students are being misunderstood as parasite when they got allowance from the company but they didn't contribute anything to them. It's lucky for students who gain knowledge and allowance together. But it's a lost for them who never gain knowledge and allowance both.

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 <u>https://mail.google.com/mail/u/0/?tab=rm&ogbl#inbox/FMfcgxwDqxQbtGdVkgjGSBbgdhxzRFM</u>
 <u>M?projector=1&messagePartId=0.1</u>
- 4. https://www.google.com/search?ei=M6p3XbTeJMjqvAT3iqbgBA&q=civil+engineering+consulta
 nt+meanin&gs |=psy
 ab.3.2.0i22i30l4.14148.20179..23852...1.2...0.861.6541.2-5j3j3j2j2.....0...1..gws
 wiz......0i71j0j0i67j0i22i10i30.Uupti7kYGJw
- 5. https://www.google.com/search?ei=UKp3XZX0C8rzvgTknaeQDg&q=civil+engineering+consultan
 t+role&oq=civil+engineering+consultant+role&gs l=psyab.3..0i22i30.255160.259517..260814...1.2..0.250.1489.4j7j1.....0....1..gwswiz......0i71j0j0i22i10i30j33i22i29i30.fDmqne5Q jU&ved=0ahUKEwiV3JiUs8bkAhXKuY8KHeTOC
 elQ4dUDCAs&uact=5
- 6. https://www.google.com/search?ei=4q13XcLultmPwgPB7JWICw&q=roles+of+tender+document
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XZh3AKHUF2BbEQ4dUDCAs&uact=5

[32]

7. <a href="https://www.google.com/search?ei=TK53XfKqG4OYvQTyi7m4CQ&q=purpose+of+technical+proposal&oq=purpose+of+technical+proposal&gs l=psy-ab.1.0.0i13j0i22i30l2.55908.537657..544318...3.2..5.957.5433.17j7j3j0j2j0j2.....4...1..gws-wiz......0i71j0j0i10j0i131j0i67j0i131i67j0i13i30j0i13i5i30j0i8i13i30j0i8i13i10i30.rvRiwGrflro

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K13XZT8leGuvgSd6qLQDw&q=roles+of+tender+&oq=roles+of+tender+&gs l=psy-ab.3..0j0i22i30l6j0i22i10i30j0i22i30l2.79152.81643..82753...0.2..0.137.1264.9j4.....0....1..gws-wiz......0i71j33i22i29i30j33i10.MYEHNmQKcVk&ved=0ahUKEwiU2NfStsbkAhVhl48KHR21CPoQ4dUDCAs&uact=5

- 9. <a href="https://www.google.com/search?ei=0Kx3XcOtBOC6vgTk94HoCA&q=roles+of+tender&oq=roles+of+tender&oq=roles+of+tender&gs l=psy-ab.3..0i7i30l2j0l2j0i30l6.266797.271429..273627...0.2...0.259.1518.6j4j2.....0....1..gws-wiz......0i71j0i8i7i30j0i13.D UF4LMf3Nw&ved=0ahUKEwjD1afFtcbkAhVgnY8KHeR7Al0Q4dUDC</p>
- 10. <a href="https://www.google.com/search?ei=Vqt3XdrJGMi6vgT7xoOwBA&q=purpose+of+tender+&oq=purpose+of+tender+&gs_l=psy-ab.3..0l7j0i22i30l3.355717.367656..374941...0.3..0.406.1930.11j6j4-1.....0....1..gws-wiz......0i71j0i131j0i67j0i131i67.5rUbsr1NRp0&ved=0ahUKEwjazJyRtMbkAhVInY8KHXvjAEYQ4dUDCAs&uact=5

[33]

APPENDIX

[34]

APPENDIX A

APPENDIX B

APPENDIX C

Faculty of Civil Engineering Tel: 607-3818309 / 8339 / 8328

Fax: 607-3818141

UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR

Kampus Pasir Gudang, 81750 Masai, Johor. Te: 607–3818000 Fax: 607-3818141



UiTM.FKA.LI-01

INDUSTRIAL TRAINING PLACEMENT INFORMATION FORM

(Borang Matlumat Penempatan Latihan Industri)

A) STUDENT INFO)RMATION (Matlum	nat Pelajar)				
Name (Nama) :	SARA ALYA LUQI	MAN BT ZALIMIE SHAM		UiTM No. (No. U	JiTM)	2016772219
Programme : (program)	DIPLOMA KEJUR	UTERAAN AWAM		ID No. (No. k/p)		980625-14-6082
	SESI 2 2018/201			Semester (Semes	ster):	5
Address (alamat):		MAN ABADI U17/49A, 9	SEKSYE	•	•	
Phone (Telefon):		•	Mobile	No.(No. h/p): 01	13-282	2 4570
Email (emel) :	miniaturemode	l@gmail.com				
B) HEIRS (Waris)						
Name (Nama) :	ZALIMIE SHAM	BIN CHE MUDA				
Address (alamat):	No 33 JALAN AN	MAN ABADI U17/49A, S	SEKSYE	N U17, AMAN P	UTRI	40160 SHAH ALAM.
Phone (Telefon) :		- -	Mobil	e No.(No. h/p) : (017-34	11 5344
C) PLACEMENT OF	PTIONS (Pilihan pene	empatan)				
No.	State				Cit	ty
(Bil.)	(Negeri)			2410	(Ban	•
1. 2.	KUALA LUN	√IPUR		BAND	AR IVI	ENJALARA
۷.						
C) ORGANIZATION	N INFORMATION (Matlumat organisasi)				
· · · · · · -	PERUNDING ZM	IS SDN BHD.				
Address (alamat):	NO 9-2, JALAN 1	L1/62A, BANDAR MENJ	ALARA	, 52200 KUALA	LUMP	UR.
-						
Contact Person (Peg	zawai yang boleh dihul	bungi): IR SAAIDIN BIN	I ABU B	AKAR	-	
Designation (Jawat	an): MANAG	SING DIRECTOR				
Phone (Telefon):	+603 6280 3825		Mobile	e No .(No. h/p) :		-
Fax No. (No. Fax):	+603 6280 3802	Er	nail (eme	el):	ahoo.	com
	Signature (Tandata	ingan)		Date	tarikh,	
Office use:	Checked by:			Approved by:		
						1

Example of Resume (CV) (UiTM.FKA.LI-03)

RESUME



PERSONAL DETAILS

Name : Sara Alya Luqman Bt Zalimie Sham

Identification No. : 980625-14-6082

Date of Birth : 25.6.1998

Place of Birth : Hospital Besar Kuala Lumpur

Age : 21

Sex : Female
Marital Status : Single
Race : Melayu
Religion : Islam
Citizenship : Malaysia

Postal Address : No 33 Jalan Aman Abadi U17/49A, Seksyen U17, Aman Putri,

40160, Shah Alam.

Mobile Phone No. : 013-282 4570

E-mail : miniaturemodel@gmail.com

EDUCATIONAL BACKGROUND

Year / Period	Institution	Level	Achievement / Award	
2015	SMK Menjalara	Spm	1A	
2016	Uitm Jengka	Pra Diploma	3.62	
2010	Alikas Kamanas Dasis Carleys	Diploma in Civil	2.00	
2018	Uitm Kampus Pasir Gudang	Engineering	3.06	

EXTRA-CURRICULAR ACTIVITIES

Year / Period	Programme / Activity	Location	Participation
2018	Volleyball	UiTMPG	UiTM
2017/2018	TTS(Tempur Tanpa Senjata)	UiTMPG	UiTM
2018	Site Visit Perak	Perak	Faculty

WORKING EXPERIENCE

Year / Period Organisation Designation Re	esponsibilities
---	-----------------

SKILLS

Language skills :

Language	Written	Speaking
English	Good	Good
Bahasa Melayu	Excellent	Excellent

Computer Literacy: Autocad and Programming C++

Other skills : Drawing Plan, Microsoft Office

HOBBIES

No.	Description	
1	Play Badminton	
2	Autocad	

ACADEMIC REFEREES

1. Name Mohd Firdaus Bin Mohd Akhbar

Designation : Koordinator Latihan Industri Fakulti Kejuruteraan Awam

Organisation: Uitm Cawangan Johor, Kampus Pasir Gudang

Tel. No. : 013-299 4660 / 07-380 8368 Email : firdausakhbar@gmail.com

2. Name : Siti Shahidah Binti Sharipudin

Designation : Lecturer

Organisation: Uitm Cawangan Johor, Kampus Pasir Gudang

Tel. No. : 019-223 8265/ 07-381 8298 Email : shahidahs@uitm.edu.my

Faculty of Civil Engineering Tel: 607-3818309 / 8339 / 8328 Fax: 607-3818141

UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR

Kampus Pasir Gudang, 81750 Masai, Johor. Te: 607–3818000 Fax: 607-3818141



UiTM.FKA.LI-04

Rujukan Kami: 100-UiTMKPG(FKA14/3/4)

arikh : 30 APRIL 2019

Koordinator Latihan Industri Fakulti Kejuruteraan Awam UiTM Johor Kampus Pasir Gudang, Jalan Purnama 81750 Masai Johor.

(u/p: MOHD FIRDAUS B. MOHD AKHBAR, firdausakhbar@gmail.com)

Fax: 07-3818141

PENGESAHAN PENERIMAAN PELAJAR EC110 UNTUK LATIHAN INDUSTRI TAHUN
Merujuk kepada surat/faks Tuan yang bertarikh
Butiran Latihan:
Tarikh melaporkan Masa melaporkan Alamat melaporkan / ditempatkan Kami juga bersedia untuk menyediakan kemudahan berikut**:
1. Penginapan 2. Pengangkutan 3. Makanan dan minuman 4. Elaun bulanan 5. Kemudahan lain (sila nyatakan jika ada):
Sekian, terima kasih.
Yang benar,

(NAMA DAN COP ORGANISASI/SYARIKAT)

Sila faks / emailkan kembali surat ini kepada Fakulti Kejuruteraan Awam, UiTM Pasir Gudang selewat-lewatnya 2 minggu dari tarikh surat permohonan ini.

* Potong mana tidak berkenaan.

^{**}sila tandakan (√) bagi yang berkaitan

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Fax: 607-3818141

UNIVERSITI TEKNOLOGI MARA **CAWANGAN JOHOR**

Kampus Pasir Gudang, 81750 Masai, Johor. Te: 607_ 3818000 Fax: 607- 3818141



UiTM.FKA.LI-05

Our Reference:	100-UiTMKPG(FKA14/3/4)
Date:	•

To: **Industry Training Coordinator,** Faculty of Civil Engineering Universiti Teknologi MARA

Cawangan Johor Kampus Pasir G Jalan Purnama 81750 Masai Joho	
Dear Sir / Madam	
INDUSTRIAL TRAINING REPORT DUT	
The above matter is referred.	
	ving students ha s reported for Industrial Training to our (completed by the company /
STUDENT NAME	: SARA ALYA LUQMAN BINTI ZALIMIE SHAM.
STUDENT NO.	: 2016772219
ID NO.	: 980625-14-6082
PROGRAMME	: DIPLOMA KEJURUTERAAN AWAM
SEMESTER	: LIMA (5)
REPORT DATE	: 15 JULY 2019
INDUSTRIAL TRAINING ADDRESS	: NO 9-2, JALAN 11/62A, BANDAR MENJALARA
	52200 KEPONG, KUALA LUMPUR.
DURATION / PERIOD	: 8 weeks (2 MONTHS)
Thank you.	
Yours sincerely,	
(Signature and Company /Organi	zation Stamp)

Faculty of Civil Engineering Tel: 607-3818309 / 8339 / 8328

INDUSTRIAL TRAINING STUDENT HANDBOOK

Fax: 607-3818141

UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR

Kampus Pasir Gudang, 81750 Masai, Johor. Te: 607–3818000 Fax: 607-3818141



UiTM.FKA.LI-06

- 22 -

CURRENT LOCATION INFORMATION FORM

(Borang Matlumat Penempatan Semasa)

A) STUDENT INFO	RMATION (Matlum	at Pelajar)		
			UiTM No. (No. UiTI	м)
Name (Nama) :				***************************************
Programme : (program)			iD No. (No. k/p)	
Session (sesi) :			Semester (Semester	
Address (alamat):				
Phone (Telefon) :				
Email (emel) :		Shaki addida kiraba abaa abaa abaa aa aa aa aa aa aa aa		
B) ORGANIZATION	N INFORMATION (Matlumat organisasi)		
Name (Nama) :		***************************************		
Address (alamat):				

Contact Person (Peg	jawai yang boleh dihul	bungi):		
Designation (Jawata	an) :			***************************************
Phone (Telefon) :		Mobil	le No.(No. h/p):	
		Email (en	nel):	
	Signature (Tan	datangan)	Date (to	arikh)
Industry Tra Faculty of Ci Universiti Te Cawangan J Jalan Purnai	nining Coordinator, ivil Engineering eknologi MARA Johor Kampus Pasii ma 81750 Masai J	r Gudang		email within a week to:
Office use:	Checked by:		Approved by:	
(u / p: Moho	amed Khatif Tawaj	f, fax to: 607-3818141 or email: i	mohdkhatif@johor.u	itm.edu.my)
, ,	•	,, , ,		,,
7-54				

Faculty of Civil Engineering Tel: 607-3818309 / 8339 / 8328 Fax: 607-3818141

UNIVERSITI TEKNOLOGI MARA **CAWANGAN JOHOR**

Kampus Pasir Gudang, 81750 Masai, Johor. Te: 607_ 3818000 Fax: 607- 3818141



UiTM.FKA.LI-05

Our Reference: 100-UiTMKPG(FKA14/3/4) Date:

To: **Industry Training Coordinator,**

Faculty of Civil Engineering Universiti Teknologi MARA Cawangan Johor Kampus Pasir Gu Jalan Purnama 81750 Masai Joho	
Dear Sir / Madam	
INDUSTRIAL TRAINING REPORT DUTY SESSION	
The above matter is referred.	
	ring students ha s reported for Industrial Training to our (completed by the company /
STUDENT NAME	: SARA ALYA LUQMAN BINTI ZALIMIE SHAM.
STUDENT NO.	: 2016772219
ID NO.	: 980625-14-6082
PROGRAMME	: DIPLOMA KEJURUTERAAN AWAM
SEMESTER	: LIMA (5)
REPORT DATE	: 15 JULY 2019
INDUSTRIAL TRAINING ADDRESS	: NO 9-2, JALAN 11/62A, BANDAR MENJALARA
	52200 KEPONG, KUALA LUMPUR.
DURATION / PERIOD	: 8 weeks (2 MONTHS)
Thank you.	
Yours sincerely,	
(Signature and Company /Organiz	cation Stamp)

UITM.FKA.LI-07

UNIVERSITI TEKNOLOGI MARA

CAWANGAN JOHOR Kampus Pasir Gudang, 81750 Masai, Johor

INDUSTRIAL TRAINING STUDENT PLACEMENT REPORT



(Report Evaluation Form)

STREA PLYA LUBMAN BT. JACIMIE SHAM A) Student Information Name

JULY - SEPT XOLA Programme

15 JULY 2019 Date of Commencement:

9800 x -14-608 6 sept 2019 りてくれらられ

UITM No.

Date of Completion

Semester

ID No.

Organization Information

Session

PERUNDING SMS SON BHD Organization

Ir. MOTO FAUX BIN SANI Name of Supervisor:

PENGARAH TEKNIKAL Designation

C) Faculty Supervisor Information

Name

D) Marks

	/2 /2	र्र म्र म	آ A JA	5) TOT	/5	5 /25
CO1-PO5) 	1/	a)	18/	s/	/25
No. Criteria	Abstract	Introduction	Report content	Conclusion and Recommendation for Industrial Training	Writing Quality	CO-PO MARKS
S.	∓ i	2.	3.	4.	5.	

Signature & Official Stamp (Faculty Supervisor)

Date



Report Evaluation Form

UITM.FKA.LI-07

UNIVERSITI TEKNOLOGI MARA

CAWANGAN JOHOR Kampus Pasir Gudang, 81750 Masai, Johor

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of, that has that has elearnt are described clearly that has earnt from g. S. On Clear description of content on description. F.Work All elements are clearly element out described assolving solving earnt.	No.	s. Criteria	5 (Excellent)	4 (Good)	3 (Satisfactory)	2 (Average)	1 (Weak)
• Background of • Background of Organization • Scope of Work Covered • Report Organization. (CO1-PO5) Report content • Problems encountered • Problem solving All elements are clearly described • Problems • Problems encountered		Abstract Summary of; • Training that has been undertaken • Lesson learnt from the training. (CO1 - PO5)	Training and lesson learnt are described clearly	Training and lesson learnt are described with substantial clarity	Training and lesson learnt are described satisfactorily	Training and lesson learnt are described with minimal clarity	Fail to describe training and lesson learnt
Report content Tasks carried out Problems encountered Problem solving Approach Lesson learnt	2	 Introduction Background of Organization Scope of Work Covered Report Organization (CO1-PO5) 		The content is described with clear substantially	The content is described with moderate clarity	The content is described with minimal clarity	Content
(C01-P05)	ώ.	Report content Tasks carried out Problems encountered Problem solving Approach Lesson learnt (CO1-PO5)	All elements are clearly described	Tasks, problems encountered and problem solving approach are clearly described but lesson learnt is missing	Tasks and problems encountered are clearly described but problem solving approach is not clearly described	Tasks are clearly described but problems encountered is not clearly described	Tasks are not clearly described

Report Evaluation Form

UITW.FKA.LI-07



UNIVERSITI TEKNOLOGI MARAA CAWANGAN JOHOR Kampus Pasir Gudang, 81750 Masai, Johor

					1721 LIVE 5	Name of the column terms o
No.	Criteria	5 (Excellent)	4 (Good)	3 (Satisfactory)	2 (Average)	i (Weak)
4	Conclusion and Recommendation for Industrial Training • Conclude the findings of Industrial Training • Evaluations on outcomes of training & suitability of the placement. (CO1-PO5)	Able to conclude &evaluate the training outcomes & placement clearly	Able to conclude & evaluate the training outcomes & placement with substantial clarity	Able to conclude and evaluate the training outcomes & placement with moderate clarity	Able to conclude &evaluate the training outcomes & placement with minimal clarity	No conclusion on the achievement of training & provide no evaluations on both training outcomes & placement
	Writing QualityWriting StylePlagiarism as stated in UITM Policy(CO1-PO5)	The report is well organized and supported with sufficient and relevant information	The organization of the report is good and supported with substantial evidence	The organization of the report is good and supported with satisfactory evidence	The organization of the report is satisfactory with minimal support	The report is poorly organized and lacked of supporting evidence
ld*	*Please tick (V) at appropriate scale	cale				
		Percenta	Percentage earned from Report = <u>Total Marks Earned from Report</u> X 20% 25 =	Marks Earned from Repo 25 %	<u>rt</u> X 20%	
Fo	For Faculty Supervisor Response i. Would you recommended this vii. If NO, please specify the reason	nse nded this workplace for futu the reason	<u>ulty Supervisor Response.</u> Would you recommended this workplace for future Industrial Training Student If NO, please specify the reason	Yes	No	
	A TRAINING STITHENT HANDROOK	HANDROOK			Report	Report Evaluation Form

INDUSTRIAL TRAINING STUDENT HANDBOOK

UITM.FKA.LI-08



ECSIS-SEE UNIVERSITY TEKNOLOGI MARA

					MARA	
No.	Criteria	5 (Excellent)	4 (Good)	3 (Satisfactory)	2 (Average)	1 (Weak)
- '	Verification from supervisor. (CO1 – PO5)	More than 9 signatures	At least 9 signatures	At least 8 signatures	At least 7 signatures	Less than 7 signatures
2.	Attendance. (CO1-PO5)	100% At least 90% At least 80% At least 80% At least 80% At least 50% Less than 50% At least 60%	At least 90%	At least 80%	At least 50%	Less than 50 %
		reason)	ys iriciacairg public irolladys (ו מנוכווממווכב וא ובאא מומוו לט ממאא)	מוכ אמתכוור אזון ומון מוזוכא מוכ וונס	astrial Halling With a regionilate
. m̂	Content at least 80% egineering technical with additional technical specification (drawing, design calculation, picture and safety awareness).	All elements are clearly stated with evidence.	Engineering and technical specification are described but some details are missing	Engineering and technical specification are described but major details are missing	Engineering content is described but technical specification is not clearly described	Engineering content is not clearly described
.4	Allocate problems & analysis to formulatio & solution to real-life.	Able to allocate problems & analysis related to real-life and clearly described	Able to allocate problems & analysis related to real-life but minor description are missing	Able to allocate problems & analysis related to real-life but major description are missing	Able to allocate problems & analysis related to real-life but not clearly described	Unable to allocate problems & analysis related to real-life.
*Plec	*Please tick (V) at appropriate scal	s SCal				

Percentage earned from Logbook = Total Marks Earned from Logbook X 10%

%

Logbook Evaluation Form

UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR

Kampus Pasir Gudang, 81750 Masai, Johor

INDUSTRIAL TRAINING LOGBOOK

UNIVERSITI TEKNOLOGI MARA は必要のなる

(Logbook Evaluation Form)

SARA ALDA LUBMAN BT. SALIMIE SHAM

A) Student Information

UITM No. Semester ID No. DIPLOMA REJURY TERATIN AWAMN JULY - SEPT 2019 Date of Commencement: 15 JULY 2019 Programme Session

-809-11-508b 6 8EDT 2019 P12843000:

Date of Completion

B) Organization Information

PERUNDING SMS SON BHO Organization

Ir MOHD FAUST BIN SAN Name of Supervisor:

PENGARAH TEKNIKAL Designation

C) Faculty Supervisor Information

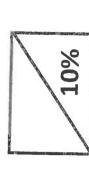
Name :

D) Marks

No.	Criteria	CO1-PO5	The state of the s
	Verification from supervisor	/5	SKS
2.	Attendance	/5	IAM
w.	Technical content	(5)	JAT
4.	Allocate problems & analysis	/5	ΟT
F.	CO-PO MARKS		

Signature & Official Stamp

Date



Logbook Evaluation Form

SENARAI SEMAK DOKUMEN MANDATORI CADANGAN KOS

Dokumen Cadangan Kos perlu dihantar dalam sampul surat beransingan dan berlakri dan ditandakan "Cadangan Kos" di sebelah kiri sampul surat berkenaan. Senarai semak berikut perlulah dimasukkan sebagai muka surat pertama di dalam sampul berkenaan. Perunding hendaklah memastikan Cadangan Perunding adalah lengkap merangkumi semua item-item yang dinyatakan di bawah. Kegagalan Perunding melaksanakan demikian akan mengakibatkan Cadangan Perunding Tidak Akan Dipertimbangkan.

		Sila Tano	dakan (√)
Bil.	Dokumen Yang Perlu Disertakan	Untuk Di tanda Oleh Perunding	Untuk Ditanda Oleh Jawatankuasa Pembuka
1.	Pengiraan Keseluruhan Anggaran Kos Perunding (termasuk Yuran Perkhidmatan Perunding dan Kos Imbuhan Balik) mengikut format di Lampiran B1 (dilabelkan sebagai Lampiran B1)		
2.	Pengiraan Yuran Perkhidmatan Perunding secara Skala Yuran Piawai(SOF) mengikut format di Lampiran B2 (dilabelkan sebagai Lampiran B2)		
3.	Pengiraan Yuran Penyeliaan Pembinaan format di Lampiran B3(dilabelkan sebaagai Lampiran B3)		
4.	Pengiraan Add. Professional Services-Road Safety Audit Stage 1-5 format di Lampiran B4 (dilabelkan sebagai Lampiran B4)		
5.	Pengiraan Add. Professional Services-Additional Audit (TMP) format di Lampiran B5(dilabelkan sebagai Lampiran B5)		
6.	Pengiraan Add. Professional Services-Pengawasan Tapak bagi Kerja-kerja Penyiasatan Tanah(SI) format di Lampiran B6(dilabelkan sebagai Lampiran B6)		
7.	Pebgiraan Kos Imbuhan Balik mengikut format di Lampiran B7, B8, B9, B10, B11 dan B12(dilabelkan sebagai Lampiran B7, B8, B9, B10, B11 dan B12)		
8.	Salinan Softcopy Cadangan Kos dalam bentuk CD/pebdrive dimasukkan dalam sampul (ditandakan sebagai Lampiran B13)		_

PENGESAHAN OLEH PERUNDING

-	Dengan ini saya mengesahkan bahawa saya telah membaca dan memahami semua syarat yar dinyatakan di atas dan semua maklumat yang dikemukakan adalah benar dan lengkap.						
	ş <u>ş</u>						
Nama Prinsip	al:	Tarikh	\$				
No. K/P		Cop Syarikat	7*7 (*)				

SIJIL PEMERIKSAAN VISUAL

(Seksyen 85A, Akta Jalan, Parit dan Bangunan 1974)

Kepada Datuk Bandar Kuala Lumpur

No. Rujukan Notis : (2) dlm. DBKL/JKB/PBK/S2/2019/0084

Nama Bangunan : Pusat Perubatan Universiti Kebangsaan Malaysia **Alamat Bangunan** : Pusat Perubatan UKM, Jln Yaacob Latiff, 56000

Bandar Tun Razak, Cheras, Kuala Lumpur, Wilayah

Persekutuan.

Seperti yang dikehendaki dibawah seksyen 85A, Akta Jlan, Parit dan Pembangunan (Pindaan) 1994, [Akta A903], saya telah menjalankan pemeriksaan visual bagi bangunan diatas dan kawasan persekitarannya dari tarikh 24 Ogos 2018 hingga tarikh 31 Januari 2019.

* Dalam membua	at kesimpulan, saya men	gesahkan bahawa:	
	Tiada tanda menger	nai kecacatan-kecacat	an struktur penting dilihat.
	struktur dan tindaka	ın pembaikan (jika ad	engawasan tetapi bukan penyiasatan a) telah kelihatan pada bangunan dan an dibuat. (Sila isikan Sijil Siap Kerja
Causa da associación	dikesan pada bangu kesan-kesan ke atas	nan. Satu penyiasatar struktur diperlukan. (acatan-kecacatan struktur penting telah n penuh dan serta merta untuk menentukan Sila isikan Sijil Pemeriksaan Struktur).
saya dengan ini n	nengemukakan laporan b	Nama No. Pendaftaran Nama Firma Alamat Firma	: Ir. Saadin bin Abu Bakar : C18500 : Perunding ZMS Sdn Bhd : No 9-2, Jalan 11/62A, Bandar Menjalara 52200
(Cop & Ta	andatangan)		Kepong, Kuala Lumpur.
s.k (Pemili	k Bangunan/Pembadanar	n Pengurusan)	

^{*} Sila tandakan di petak mana yang berkenaan.

JABATAN KERJA RAYA

PERAKUAN SIAP KERJA (CERTIFITION OF PRACTICAL COMPLETION)

·	,
Rujukan	
	Pejabat
	Tarikh
Kepada	rankn
(Kontraktor)	
Daftar Dengan PKK Dalam Kelas "	"
Kontrak No	
Section*	
	rak, dan tertakluk kepada penyiapan apa-apa kerja yang nditions of Contract and subject to the completion
belum disiapkan dan perbaikan apa-apa keca	acatan, ketidaksempurnaan, kesusutan atau apa-apa
	f of any defects, imperfections, shrinkages or any
kerosakan lain apa jua pun sebagaimana yan other faults whatsoever or required under Clat	g dikehendaki di bawah Klausa 45 Syarat-Syarat Kontrak use 45 of the Conditions of Contract
dan yang mungin terzahir dalam Tempoh Tan and which may appear during the Defects Lial	nggungan Kecacatan maka adalah dengan ini di bility Period, it is hereby certified that
perakui bahawa seluruh Kerja-Kerja / Sebaha the whole of the Works / Section of the Works	gian daripada Kerja-Kerja* seperti yang tersebut dia atas * as <i>mentioned above</i>
telah siap dengan memuaskan hati pada	dan diambil milik
were satisfactorily completed on	nd taken into possession
pada on	and that the said Defects Liability Period in respect of
Keria-Keria/Sehahagian daripada Keria-Keria*	* tersebut bermula pada
the said Works/Section of the Works* began o	
dan akan berakhir pada	
and will end on	
	Dawn of D
	Pegawai Penguasa
	Superintending Officer.
	(Nama Penuh
	Designation
	0
	Nama Jawatan
	Name in full

JABATAN KERJA RAYA PERAKUAN SERAHA KERJA SIAP (SELEPAS CPC) KEPADA BAHAGIAN SENGGATA FASILITI JALAN

Rujukan Fail Tarikh Tajuk Kontrak No. Kontrak Kerja diatas telah disiapkan dan Sijil Siap Secara Praktikal (CPC) tela dikeluarkan. Kerja telah diperiksa oleh mewakili (Nama Pegawai) (Kementerian/Jabatan Pelanggan) dan mewakili (Nama Pegawai) (Pegawai Penguasa) Kami yang menandatangani di bawah ini mengakui bahawa Kerja tersebut telah diserahkan oleh Pegawai Penguasa kepada Pengarah Bahagian Senggara Fasiliti Jalan. Baki kerja yang masih belum disiapkan dan/atau kerja cacat adalah seperti yang disenaraikan di Lampiran. Tandatangan Tandatangan WakilKementerian/Jabatan Pelanggan (Wakil Pegawai Penguasa) Nama Nama Jawatan: Jawatan : Tarikh Tarikh Nota: Aduan terhadap kerja cacat hendaklah dibuat secara bertulis kepada Pegawai Penguasa tidak

lewat dari tarikh tamatnya Tempoh Tanggungan Kecacatan iaitu pada

SENARAI SEMAKAN PRA-PENYERAHAN KEPADA BSFJ

(Untuk disediakan selepas Sijil Siap Secara Praktikal dikeluarkan)

1. Sijil Siap Secara Praktikal 2. Borang A - Perakuan Serahan Kerja Siap (Selepas CPC) Kepada BSFJ 3. Borang A mengandungi lampiran berikut; • Senarai baki kerja belum siap • Senarai kerja cacat 4. Bil TNB yang terkini 5. Kerja-kerja Penyenggaraan Rutin dalam Tempoh Tanggungan Kecacatan di dalam Skop Kontrak 6. Tindakan mewatarkan jalan sebagai Jalan Persekutuan telah diambil.	TE
2. Borang A - Perakuan Serahan Kerja Siap (Selepas CPC) Kepada BSFJ 3. Borang A mengandungi lampiran berikut; • Senarai baki kerja belum siap • Senarai kerja cacat 4. Bil TNB yang terkini 5. Kerja-kerja Penyenggaraan Rutin dalam Tempoh Tanggungan Kecacatan di dalam Skop Kontrak 6. Tindakan mewatarkan jalan sebagai Jalan	
(Selepas CPC) Kepada BSFJ 3. Borang A mengandungi lampiran berikut; • Senarai baki kerja belum siap • Senarai kerja cacat 4. Bil TNB yang terkini 5. Kerja-kerja Penyenggaraan Rutin dalam Tempoh Tanggungan Kecacatan di dalam Skop Kontrak 6. Tindakan mewatarkan jalan sebagai Jalan	
Senarai baki kerja belum siap Senarai kerja cacat Senarai kerja cacat 4. Bil TNB yang terkini 5. Kerja-kerja Penyenggaraan Rutin dalam Tempoh Tanggungan Kecacatan di dalam Skop Kontrak 6. Tindakan mewatarkan jalan sebagai Jalan	
Senarai kerja cacat 4. Bil TNB yang terkini 5. Kerja-kerja Penyenggaraan Rutin dalam Tempoh Tanggungan Kecacatan di dalam Skop Kontrak 6. Tindakan mewatarkan jalan sebagai Jalan	
4. Bil TNB yang terkini 5. Kerja-kerja Penyenggaraan Rutin dalam Tempoh Tanggungan Kecacatan di dalam Skop Kontrak 6. Tindakan mewatarkan jalan sebagai Jalan	
Kerja-kerja Penyenggaraan Rutin dalam Tempoh Tanggungan Kecacatan di dalam Skop Kontrak Tindakan mewatarkan jalan sebagai Jalan	
Tanggungan Kecacatan di dalam Skop Kontrak 6. Tindakan mewatarkan jalan sebagai Jalan	
Nota: 1. BSFJ - Bahagian Senggara Fasiliti Jalan 2. TB - Tidak Berkaitan 3. Jika "Ada", sila sertakan bersama salinan dokumen	
Catatan:	
	••••

JABATAN KERJA RAYA PERAKUAN SERAHA KERJA SIAP (SELEPAS CMGD) KEPADA BAHAGIAN SENGGATA FASILITI JALAN

Rujukan Fail Tarikh Tajuk Kontrak No. Kontrak mewakili (Nama Pegawai) (Kementerian/Jabatan Pelanggan) dan mewakili (Nama Pegawai) (Pegawai Penguasa) Kami yang menandatangani di bawah ini mengakui bahawa Kerja tersebut telah diserahkan oleh Pegawai Penguasa kepada Pengarah Bahagian Senggara Fasiliti Jalan. Tandatangan Tandatangan WakilKementerian/Jabatan Pelanggan (Wakil Pegawai Penguasa) Nama Nama Jawatan 📑 Jawatan :

Tarikh

Tarikh

[Borang JKR.PK(O).05-2 Pindaan 2009]

LAMPIRAN B

SENARAI SEMAKAN PRA-PENYERAHAN KEPADA BSFJ

(Untuk disediakan selepas Sijil Siap Secara Praktikal dikeluarkan)

Nama Projek:

	Ada	Tiada	ТВ
1. Sijil Siap Secara Praktikal			
2. Borang B - Perakuan Serahan Kerja Siap (Selepas CMGD) Kepada BSFJ			
 Pelan Lukisan Siap Bina (Softcopy 2 salinan - 1 format dwg autoCAD dan 1 format pdf dengan cop dan tandatangan Jurutera Profesional 			
Pelan Lokasi			
Pelan Had Lajuan (ROW)			
Pelan Longitudinal Profile			
Pelan Soil Investigation			
Pelan Alignment Control			
Pelan Drainage Layout			
Pelan Geoteknikal - Ground Treatment Layout			
Pelan Road Furniture Layout			
Pelan Traffic Control Layout			
Pelan Utilities Layout			
Telekom			
TNB			
Bekalan Air			
Lian-lain (nvatakan			

 Pelan Kerja Jabatan/Jejambat/Jejantas/ Pembetung (layout, structure, drainage, furniture & utilities) 		
Pelan Kerja Elektrik		
Pelan Kerja Mekanikal		
4. Sijil Jaminan		
Sijil Jaminan Kerja Awam		
Sijil Jaminan Kerja Jambatan		
Sijil Jaminan Kerja Arkitek		
Sijil Jaminan Kerja Elektrik		
Sijil Jaminan Kerja Mekanikal		
5. Kerja Elektrik (Lampu Jalan/ Lampu Isyarat)		
 Surat Pelantikan Kontraktor/Perunding Elektrik (untuk Projek Reka dan Bina) 		
 Manual Operasi & Penyelenggaraan (OMM) 		
 Keputusan Peperiksaan Pengujian (Ujian Earthing, Continuity, Insulation, Polarity - untuk setiap feeder pillar) (Ujian Luminance dan Illuminance - untuk setiap lampu jalan) 		
Latihan Penggunaan Sistem		
Jadual Kerja-Kerja Penyenggaraan		
Katalog Produk		

6. Kerja Mekanikal		
 Surat Pelantikan Kontraktor/Perunding Mekanikal (untuk Projek Reka dan Bina) 		
 Manual Operasi & Penyelenggaraan (OMM) 		
Keputusan Peperiksaan Pengujian		
Latihan Penggunaan Sistem		
Jadual Kerja-Kerja Penyenggaraan		
Katalog Produk		
7. Maklumat Inventorisasi		
Jejambat/Jejantas		
Jambatan & Pembetung		
Perabot Jalan		
Lampu Jalan/Isyarat dan Feeder Pillar		
8. Laporan Penutupan NCR		
 Kerosakan/Kecacatan yang dikenalpasti oleh Wakil Pegawai Penguasa 		
Audit Kriteria Penerimaan		
Teguran Road Safety Auditor		
Audit Keselamatan Jalan		
Compliance Report		
Nota: 1. BSFJ - Bahagian Senggara Fasiliti Jalan 2. TB - Tidak Berkaitan		

- 3. Jika "Ada", sila sertakan bersama salinan dokumen

Tuntutan Kemajuan No 2		
a) final report and final hydrological procedure	30%	95,115.60
Imbuhan Balik:- a) Perjalanan b) Draft Final Report c) Final Report d) Draft Hydrlogical Procedure e) Draft Final Hydrological Procedure	Lampiran B (10 set x RM 80.00) (10 set x RM 100.00) (10 set x RM 80.00) (10 set x RM 90.00)	35.00 800 1,000.00 800 900.00
f) Final Hydrological Final	(10 set x RM 100.00)	1,000.00
g) Communication	(10 set x RM 50.00)	200
f) Training to JPS		3,600.00
JUMLAH		103450.6
Tambah : SST		6,207.04
JUMLAH KESELURUHAN TUNTUTAN		109723.04

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PENYEDIAAN PROSIDUR SEMAKAN DATA-DATA MENTAH HIDROLOGI NEGARA SEBELUM DIARKIBKAN KE PANGKALAN DATA BAHAGIAN PENGURUSAN SUMBER AIR DAN HIDROLOGI

		Total	30.52 91.56 30.52	152.6
	Mileage	Rate	0.7 0.7 0.7	
		ΣX	43.6 130.8 43.6	
		To	JPS Jalan Ampang JPS Jalan Ampang JPS Jalan Ampang	
SOMBER AIR DAN HIDROLOGI	Destination From		Pejabat Bandar Menjalara Pejabat Bandar Menjalara Pejabat Bandar Menjalara	Total
Date Particular Of Duty		6	Final Report Meeting Sesi Demonstrasi Derisian Semakan Data Draft Final Report Meeting	
			30/1/2019 11-13/12/2018 23/11/2018	
	Item		- 0 6	

KENYATAAN TUNTUTAN				
Tarikh	Wa Bertolak	ktu Sampai	Tujuan/Tempat	Jarak (k.m)
28.08.2018	10.00 pagi	4.00 petang	MESYUARAT PEMBANGUNAN PERISIAN SEMAKAN DATA VER.01 Tarikh: 28 Ogos 2018 Tempat: JPS Melaka Masa: 10.00pagi - 4.00petang Menaiki kenderaan sendiri dari pejabat di Bandar Manjalara ke JPS Melaka untuk menghadiri Mesyuarat Menaiki kenderaan sendiri untuk pulang ke pejabat di Bandar Manjalara	144
			JUMLAH	288

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KENYATAAN TUNTUTAN				
Tarikh		ktu	Tujuan/Tempat	Jarak
	Bertolak	Sampai		(k.m)
			MESYUARAT DAN HANDS-ON VER.04 DATA RECTIFICATION HP28	
			Tarikh : 24 & 25 Jun 2019 Tempat : JPS Bangi Masa : 9.00pagi - 5.00petang	
24 & 25.09 .2018	9.00 pagi		Menaiki kenderaan sendiri dari pejabat di Bandar Manjalara ke JPS Bangi untuk menghadiri Mesyuarat	90.2
		petang	Menaiki kenderaan sendiri untuk pulang ke pejabat di Bandar Manjalara	90.2
			JUMLAH	180.4

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KENYATAAN TUNTUTAN				
Tarikh	Wa Bertolak	ktu Sampai	Tujuan/Tempat	Jarak (k.m)
26&27.09 .2018	9.00 pagi	5.00 petang	MESYUARAT DAN HANDS-ON VER.04 DATA CHECKING HP28 Tarikh: 26 & 27 Jun 2019 Tempat: JPS Ampang Masa: 9.00pagi - 5.00petang Menaiki kenderaan sendiri dari pejabat di Bandar Manjalara ke JPS Ampang untuk menghadiri Mesyuarat Menaiki kenderaan sendiri untuk pulang ke pejabat di Bandar Manjalara	43.6
			JUMLAH	87.2