# INDUSTRIAL TRAINING REPORT: TENAGA NASIONAL BERHAD

# SPECIAL PROJECT: E-BILIK SYSTEM

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# REPORT SUBMITTED IN FULFILLMENT OF THE REQUIREMENT FOR THE INDUSTRIAL TRAINING FACULTY OF INFORMATION MANAGEMENT UNIVERSITI TEKNOLOGI MARA KELANTAN

01 FEBRUARY 2017 - 30 JUNE2017

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Signed by

FarhaAinaBintiA'idrus 2014316105

Date of submission: 11 July 2017

#### ABSTRACT

The trainee undergoes an industrial training from 1 February 2017 to 30 June 2017 at Tenaga Nasional Berhad, Kota Bharu. The company main business is the largest electricity utility in Malaysia. Their activities represent the entire electricity production and supply value chain. The trainee been places in the Human Resource Department under supervisor of Mr. KhairulAzuan Bin Ibrahim. All the training, guide, and work is given by the supervisor. The trainee needs to involve in daily activities at government client site. Moreover, the trainee has been given a project E-Bilik to manage the bookings in the department.Furthermore, the trainee also gain knowledge how real industry work and it give a clear picture how real worldwork.

# Keywords: e-bilik,human resource department, industrial training

#### ACKNOWLEDGMENT

I am very grateful here to Allah S.W.T that I was given a chance to undergo and complete my internship program at Tenaga Nasional Berhad and able to prepared this report. Next, thanks to Mr. KhairulAzuan Bin Ibrahim and Tenaga Nasional Berhad for give an opportunity to do an industrial training at the organization and Mr. KhairulAzuan Bin Ibrahim who personally guide and teach me about work operation and web development.

I also like to thank to my lecturer Madam NurulannisaBinti Abdullah who act as an industrial coordinator and Madam SitiAswaniBintiDato' MohdGhazali as my faculty supervisor

Lastly, I also want to thank to my parents for moral support throughout my industry training.

Thank you.

# **TABLE OF CONTENTS**

DE	CLARA	TIONi
AB	STRAC	Гіі
AC	KNOWI	LEDGMENTiii
TA	BLEOF	CONTENTSiv
	LISTO	FTABLESvi
LIS	TOFFIG	URES
LIS	TOFAP	PENDICESviii
CH	APTER1	:INTRODUCTION1
1.1	Back	ground of the Organization
	1.1.1	Vision4
	1.1.2	Mission4
	1.1.3	Objective
	1.1.4	Philosophy5
	1.1.5	CompanyServices6
1.2	Orgai	nizationalStructure
CH	APTER	2:ORGANIZATION INFORMATION
2.1	Depa	rtmentalStructure
2.2	Tech	nicalTeam16
CH	APTER 3	3: INDUSTRIALTRAININGACTIVITIES
3.1	Train	ingActivities
3.2	Speci	alProject
	3.2.1	e-Bilik

3.2.2	PADIM	37
3.2.3	Entity Relational Diagram	40
3.2.4	Context Diagam	41
3.3.4	Data Flow Diagram	42
3.3.5	Technical Feasibility	43
3.3.6	Economic Feasibility	44

# CHAPTER4:CONCLUSION454.1Application of knowledge, skills and experience in undertaking the<br/>task(knowledge gained)464.2Personal ThoughandOpinion484.3LessonsLearnt504.4LimitationsandRecommendation54

# LIST OF TABLE

Table 1:Organization Information   2	
Table 2: Department Information	
Table 3:Technical Feasibility	
Table 4:Economic Feasibility	

## **LIST OF FIGURES**

Figure 1 :Logo	
Figure 2 :OrganizationChart10	
Figure 3 : Location	1
Figure 4 :Maps	I
Figure 5 :Example Logsheet	3
Figure 6 :Training Budget	
Figure 7 :Budget OPAX 2018	
Figure 8 :Distribution Program	
Figure 9 :Opening Ceremony	
Figure 10 :TNB Wellness Day	
Figure 11 :Booth KKTM	
Figure 12 :Go Green	
Figure 13 : Financial Department	
Figure 14 : Filing	
Figure 15 : BCRM	
Figure 16 :List Of LJK	
Figure 17 :KemRemajaBestari	
Figure 18 :Entity Relational Diagram	
Figure 19 : Context Diagram	
Figure 20 :Data Flow Diagram	

vii

# **CHAPTER 1:**

# **INTRODUCTION**

#### 1.1 Industrial Training Background

Tenaga Nasional Berhad (TNB) is the largest electricity utility in Malaysia and one of the largest in the region, with an asset base totalling RM110.7 billion. With a history spanning 65 years, TNB is also the most experienced energy player in the country, responsible in keeping the lights on for all residents of Peninsular Malaysia, Sabah and Labuan.

Our core businesses span the entire value chain of electricity production and supply encompassing Generation, Transmission and Distribution. Our Generation Division operates six thermal power stations and three major hydroelectric power generating schemes in addition to supporting the operations and maintenance of three Independent Power Producers (IPPs). Our Transmission Division connects power generated by TNB and IPPs throughout Peninsular Malaysia with Distribution's network as well as directly to large industrial customers via the National Grid. Our Distribution Division supplies end users, with a keen focus on delivering a world-class customer experience.

Through our subsidiaries, we are also involved in energy-related operations such as the manufacture of transformers, high-voltage switchgears and cables; the provision of professional consultancy services; architectural, civil, electrical engineering works and services, and repair and maintenance. Supporting both our core and non-core businesses, we have a research and development function that looks into technologies that add value to all our operations.

In recent years, TNB has become a champion of Renewable Energy (RE) as par of our commitment to promote a greener and more sustainable energy sector. We are responsible for signing Renewable Energy Purchase Agreements (REPAs)with RE producers and for the administration of the Feed-in Tariff which funds the supply of RE onto the National Grid.

2

We aspire to grow our presence within the region, lending our expertise to Nations experiencing a surge in power demand as a result of rapid socio-economic development. Towards this end, a new division, Energy Ventures, has been established with the mandate to explore possible ventures for us to participate in within Southeast Asia and the Middle East.

To safeguard the sustainability of our operations, we believe in adding value to all our stakeholders. We invest in the professional development of our 36,146 employees while supporting them to achieve a healthy work-life balance. We are guided by policies and best practices in our dealings with vendors, business associates and the investment community. We engage intensely with the Government and its agencies to ensure the smooth evolution of the Malaysian Electricity Supply Industry (MESI). We also integrate ourselves fully into the communities where we have a presence via educational and other socially empowering activities.

At the same time, we acknowledge the need to protect and preserve the environment and have embarked on numerous initiatives under our comprehensive Environmental Management System (EMS) to reduce our environmental impact.

TNB has been a key contributor to the Nation's social and economic development over the years. We are committed to maintaining the status quo as we transform into a more efficient and effective organisation that is able to create a better. Brighter.future for the Nation and its people.

3

#### 1.1.1 Integrity

1.1.1.1 Principle 1 : Adhere to all set rules, regulations and guidelines

**1.1.1.2** Principle 2 : Perform to our best ability with very high standards whilst continuously improving the quality of our services

1.1.1.3 Principle 3 : Adopt an open and honest attitude in all aspects

1.1.1.4 Principle 4 : Deliver products and services to customers as pledged

1.1.1.5 Principle 5 : Have pride in contributing towards TNB's success

#### **1.1.2 Customer Focus**

**1.1.2.1** Principle 1 : Deliver high quality products and services at par with premier international corporate bodies

**1.1.2.2** Principle 2 : Provide best possible services to customers

1.1.2.3 Principle 3 : Realize that customer support is important to TNB

1.1.2.4 Principle 4 : Understand customers needs and to fulfill to the best of our capability

1.1.2.5 Principle 5 : Retain customers loyalty by continuously monitoring their needs

#### **1.1.3 Business Excellence**

**1.1.3.1** Principle 1 : Show our commitment to operate competitively

1.1.3.2 Principle 2 : Strive to acquire the relevant knowledge and skills

1.1.3.3 Principle 3 : Conduct our businesses in a timely and effective manner

1.1.3.4 Principle 4 : Build and practice team spirit

1.1.3.5 Principle 5 : Be sensitive towards TNB financial performance

**1.1.3.6** Principle 6 : Benchmark ourselves against market leaders in our effort for continuous improvement

#### 1.1.4 Caring

1.1.4.1 Principle 1 : Conduct our business with TNB's interests in mind

1.1.4.2 Principle 2 : Acknowledge employees contribution and be sensitive to their needs

1.1.4.3 Principle 3 : Assist employees to develop their potentials

**1.1.4.4** Principle 4 : Serve our customers and fellow employees in the same way we would like to be treated

1.1.4.5 Principle 5 : Always be sensitive to the needs of the society and the environment

1.1.4.6 Principle 6 : Undertake social obligations without jeopardizing TNB's interes

#### **1.2 Industrial Training's Objective**

The objectives of Industrial Training are as follow:

1.2.1 To gain experiences in organizational skills and professional responsibility. 1.2.2 To expose students to the ethics and etiquette of the industry.

1.2.3 To help students acquire interpersonal skills by meeting with professionals that is related to their field of study.

1.2.4 To make sure students will learn how to complete given tasks efficiently and also fosters good relationship with the superiors and fellow subordinates

1.2.5 To provide an opportunity for students to learn and cope themselves with the real-life working environment.

1.2.6 To help students spot their very own level of skills and understanding in the stuff that is related to course that they attended.

1.2.7 To help the organization in order to perform their daily process and operation with the help of the skill, knowledge and idea from the student.

#### 1.3 Background of the Organization

Tenaga Nasional Berhad (TNB) is the largest electricity utility in Malaysia. With our core business of providing electricity to the country's businesses, homes and industries, we are a key contributor to Nation building. Our activities represent the entire electricity production and supply value chain.

In recent years, we have also embarked on our sustainability agenda through efforts such as Renewable Energy and other environmental as well as social initiatives as we seek to add value to all our stakeholders. We believe these activities will not only take TNB into the future, but also continue to grow our business in the long-term.

With our 67 years of existence, we pride ourselves as Malaysia's leading electricity utility with a presence throughout Peninsular Malaysia, Sabah and Labuan. We have also established a name for ourselves in the region, making TNB one of the largest electricity companies in Asia as we transform ourselves into a Domestic and Regional Champion.

# 1.3.1 Customer Base : 9.2million Customers In Peninsular Malaysia, Sabah And Labuan

Our customers consist mainly of commercial, industrial and residential customers. Our industrial customers engage in the manufacture of goods and services. Although they make up the smallest segment of our customers, they also account for the majority of our electricity sales. Our commercial customers are our second-largest source of electricity sales, carrying out the business and commercial activities which drive our economy. Our residential customers represent the majority of Malaysia's 31.7 million population. As our largest market, they drive us to deliver excellence in our products and services.

# **Table 1: Organization Information**

Organization Name	Tenaga Nasional Berhad
Year Establish	1952
Address	HEAD
	QUARTERS
	Tenaga Nasional Berhad
Office Number	+6 03 2296 5566
Fax Number	+6 03 2283 3686
Website Address	https://www.tnb.com.my/

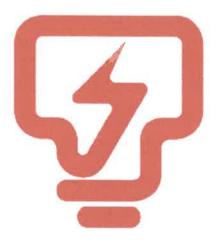


Figure 1 :TNB Logo

#### 1.4 Vision

"To Be Among the Leading Corporations in Energy and Related Businesses Globally"

## 1.5 Mission

"We Are Committed to Excellence in Our Products and Services"

#### **1.6 Objective**

#### 1.6.1 TNB's strategic goals and objectives

1.6.1.1 Providing customer high confidence and satisfaction on quality of the supplied electric.

1.6.1.2 Want to upgrade machinery into digital technology for electricity process and the uses of technology to increase production and perform high quality product.

1.6.1.3 The strength of teamwork spirit as trade among management and workers

1.6.1.4 The uses of ICT in producing electricity more creative and innovative

#### 1.6.2Philosophy

Our main philosophy is we endeavor to be adventurous yet humble, energetic yet sensible, and above all, to maintain respect for our environment. Our brands are our lifeblood, and we celebrate their successes at every occasion. Our motto: "Better, Brighter:"

#### **1.6.3CompanyServices**

#### 1.6.3.1 REMACO

TNB Remaco is recognised as Malaysia's premier utility specialist.

#### 1.6.3.2 TNB Fuel

TNB fuel (TNBf), under the energy ventures division, is a wholly owned subsidiary of Tenaga NasionalBerhad (TNB).

1.6.3.3 TNB Energy Services

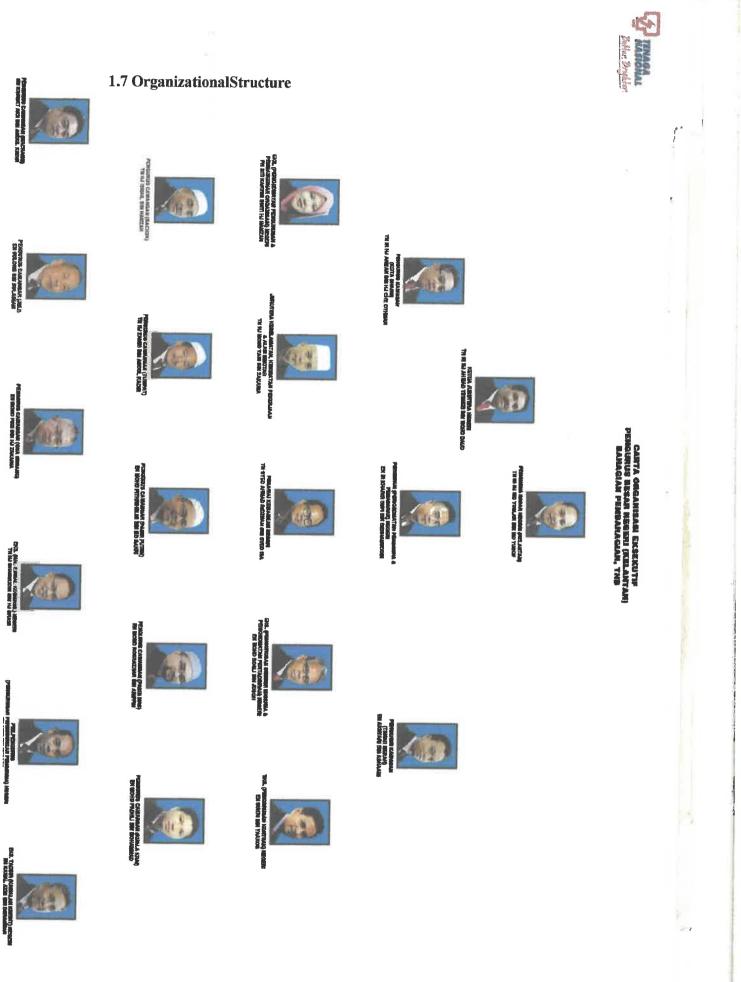
TNB energy services SdnBhd is a wholly owned subsidiary of TNB specializing in the provision of green energy solutions and services for the development, consultancy, operation

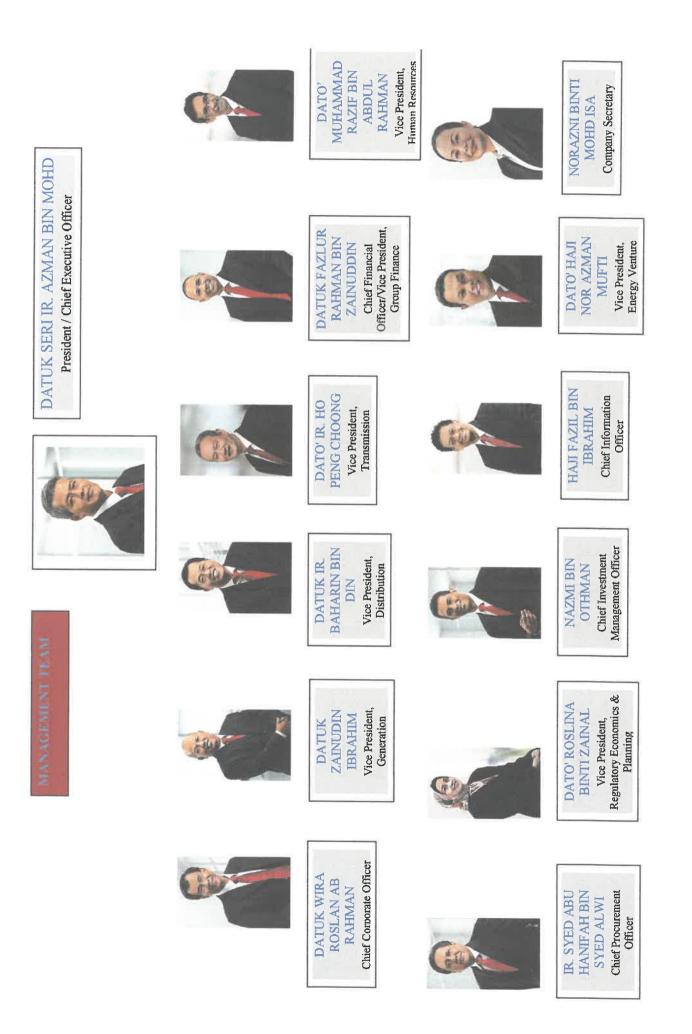
and maintenance (O&M) of renewable energy (RE) projects. Said solutions and services include solar hybrid systems (SHS), solar farms, building integrated photovoltaic system (BIPV), mini-hydro systems (MHS), biomass and biogas.

# 1.6.3.4 TNB Engineering Corporation

Established in 1993, TNB engineering corporation has built its reputation as a trusted utility player with provision of thermal energy storage district cooling systems, co-generation systems, facility management systems and other new green-related technologies.

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# 1.8 Location



Figure 3 : The Location to Tenaga National Berhad Kota Bharu



Figure 4 : Maps to Tenaga National Berhad Kota Bharu

#### **1.9 Logo Description**

The Corporate Logo for Tenaga Nasional Berhad (TNB) symbolizes the Company's continuing goal to provide services to the national needs with renewed emphasis on our dynamic future. Symbol The Corporate Identity for TNB is based on an easily recognized application of electricity – the light bulb. The form of the bulb is highly stylized, giving a sense of vitality and of the future. It is a clean, efficient design and formed almost entirely by one single line, resolving inside the bulb shape with a lightning symbol, dramatizing TNB's electrical energy function. The shape of the bulb suggests the form of a "T" - representing "tenaga" (energy). Corporate Name The name of Tenaga Nasional Berhad concisely summarizes the Company's role. It is depicted in the Corporate Logo with a clean, sophisticated typeface that projects TNB's exciting future. The lettering is italicized to represent the dynamic role that TNB will play in the nation's progress. The typeface is bold, to depict the Company's inherent strength, confidence and reliability. Corporate ColorsThe logo symbol is in a brilliant red to symbolize energy. It is a most impactful color connoting excitement and confidence. The Corporate Title is in a cool, solid blue - giving a sense of corporate strength and dignity, a perfect complement to the red logo. Red and blue together also reflect the colors of the national flag - appropriate for a vital national service.

# CHAPTER 2: ORGANIZATION INFORMATION

#### 2.1 Departmental Structure (Human Resource Department)

BahagianSumberManusia (BSM) located at 5<sup>th</sup>floor, WismaTNB Kota Bharu. The head of Human Resource Department (HRD) is MohdRosli Bin Jusoh. There are a lot of units in Human Resource Department (HRD) which are Unit KomunikasiKorporat(UKKO), Unit Pengambilan& Pembangunan Staf (UPPS), Unit Perkhidmatan&Persaraan (UPS), Unit KemajuanKerjaya (UKK), Unit Pembangunan Organisasi (UPO), Unit Pentadbiran& Pembangunan Staf (UPHS) and Unit PengurusanMaklumat (UPM). The trainee is placed in Human Resource Department and the supervisor of my training is MrKhairulAzuan Bin Ibrahim as PembantuTadbir (Latihan&Kenderaan) PengurusanSumberManusia&PerkhidmatanPentadbiranNegeri Kelantan. Below is the departmental structure of Human Resource Department (HRD).

#### 2.2 Department Function

This Human Resource Department has several function that are as below :

2.2.1 Linking its human resource activities to business strategies and acting as a Business Partner.

2.2.2 Its accountable for the Division's cost effective operations.

2.2.3 HR Department also provides human resource services to the Group, such as human resource planning & development, human resource management and human resource internal affairs.

2.2.4 HR Department ensures that human resource policies, procedures and practices are in line with the Group's Business Strategy and Core Values.

2.2.5 HR Department deals with industrial relations, staff welfare & administration, and managerial & leadership training.

#### 2.3 Supervisor's & Student's Particular

2.3.1 Supervisor's Particular

- Name : KHAIRUL AZUAN BIN IBRAHIM
- Position : PembantuTadbir (Latihan&Kenderaan)
- 2.3.2 Student's Particular
  - Name : FARHA AINA BINTI A'IDRUS

Name of department	Human Resource Department (HRD)
Campus	Wisma Tenaga Nasional Berhad, Kota Bharu
Operating Hours	Sunday - Thursday: 8.00 A.M 5.00
	P.M. Rest: 1.00 P.M 2.00 P.M.
	Friday & Saturday : CLOSED
Address	Tenaga Nasional Berhad
	BahagianPembahagiaanTNB,
Sec. Sec.	WismaTNB,
	JalanTok Hakim,
Phone Number	09-7451000 / 09-7451100
Fax Number	09-7449161 / 09-7473611
E-mail	www.TNB.com.my
Website	www.TNB.com.my

# Table 2 : Department Information

# CHAPTER 3 : INDUSTRIAL TRAINING ACTIVITIES

#### **3.1 Training Activities**

The tasks that the trainee carried out and involve during 20 weeks of Industrial Training of Tenaga Nasional Berhad Kota Bharu include :

# 

#### 3.1.1 LogsheetFor Transportation

Figure 5 : Example of Logsheet in making

This logsheet is under the Logistic Department but for year 2017, the department have to be under HR Department because of certain problem, so the trainee need to complete the logsheet. Logsheet need to be key-in in the SAP Logon system. The logsheet purpose is to know the mileage of the vehicle. When the driver come and send the logsheet book, the trainee need to key in in the system. In the SAP logon system, they have to key in date, record order, the plate number, the location they go and many more. All the information the trainee need to key in just take from the logsheet book. Each vehicle have their own logbook. So that the Executive of Logistic just take the book to see the mileage.

## 3.1.2 Attend The Budget Training



Figure 6 : Example of Training Budget

The trainee need to attend the Budget for year 2018 because there is not enough staff. The trainee also need to attend because the trainee need to do the calculation in Microsoft Excel. The trainee need to understand how to do the calculation and using the format. The trainee attended the training for 2 days.

#### 3.1.3 Budget 2018

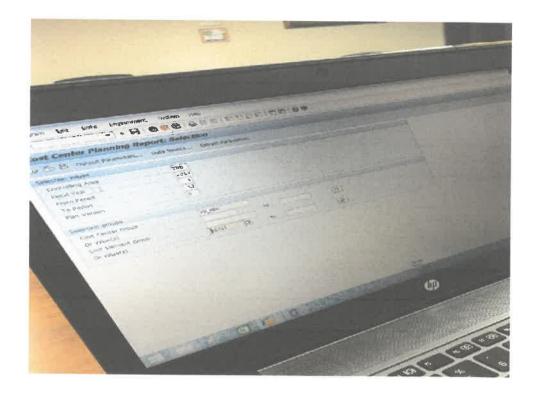


Figure 7 : Example of Budget OPAX 2018

This budget need to be done by the trainee. But before they start, they need to attend the training how to calculate it. The trainee need to do the budget for Kelantan state which contains 13 branch in Kelantan. The trainee calculate the budget for 2018 but there must take the history from 2014 because they want to increase the budget and must tally with the amount.



# 3.1.4 Attend The Distribution Program

Figure 8 : Example of Distribution Program

The trainee need to attend the distribution monthly meeting. In the meeting, they discuss the program, the budget for the monthly come and out and many more. At the meeting, the trainee have been ask to take photo when the meeting have start and when the discussion start, the trainee have been ask to note the important things.

# 3.1.5 Attend TheOpening Ceremony of "BilikGerakan"



Figure 9 : Example of Opening Ceremony Program

On this day, the trainee have to attend the Opening Ceremony in Yard Lundang with the supervisors and staff. On this day, the trainee have been ask to take the photo when the program is start. The program start with Opening ceremony by Dato' IrYuslan as the General Manager of Kelantan. On this day also, the trainee have been ask to arrange the chairs and arrange the prizes that will be given after the ceremony going to finish.

# 3.1.6 Tenaga Nasional Berhad Wellness Day



Figure 10 : Photos On The Program TNB Wellness Day

On this day, in every branch they will make a program TNB Wellness Day. In this program, the trainee have to take care of the PA system such as change the songs, put the microphone, take picture and many more or also known as one of the crew for the program. There is also many activities that the trainee also can join because all the staff also join it. The trainee also have to arrange the prizes for the winners and take photos.

## 3.1.7 Booth at Kolej Kemahiran Tinggi Mara Pasir Mas



Figure 11: Photos of Organized Booth in KKTM

On this day, the trainees and the staff which is Madam Zurina, MrBaharuddin, MrKhabir Sufi, MrHasdi and other staffs have to take care the booth of TNB at KolejKemahiran Tinggi Mara at Pasir Mas. This is to make the student gain knowledge from this book or if they want to check their house bill (for the parents or outsider that come) they can check from the booth. They just give their identification card number or their account number if they remember. The trainee have been teach how to explain and check the bills. Moreover, the trainee also have to explain about the University Tenaga Nasional for continuing their studies.

#### 3.1.8 Go Green Day



Figure 12 : Photos of Go Green Program

Every year, all TNB branch will make a program Go Green Day and everyone have to wear Green Shirt on that day. On this day, there are Opening ceremony which is done by DatoIrYuslan the General Manager of Tenaga Nasional Berhad in Kelantan. On this day, the trainee have been ask to take photo, prizes and microphone when the General Manager giving the speech. On this day also, the trainee have been ask to setup the projector at the Lobby because this program involve all the staff except the Distribution Department.

## 3.1.9 Attend the Program organized by Financial Department



Figure 13 : Photos of Financial Department Program

This is the program that have been handle by Mr Kamal Azmi as Executive of Financial in Tenaga Nasional Berhad and DrSamsudin Ghani. The program held in Meeting Room Level 5. The program title is "JomTurun Padang BersamaPengguna". The meeting is the preparation to handle the program. The trainee have to be the crew of the program. The program will be held in KokLanas. In meeting, they ask the trainee to make the program flow, the arrangement of the place and many more. Also, the trainee also have been ask to responsible in manage the prizes such as toaster, iron, rice cooker and many more for the customer that come and make payment or update their details.

## 3.1.10 Filing In Record Room

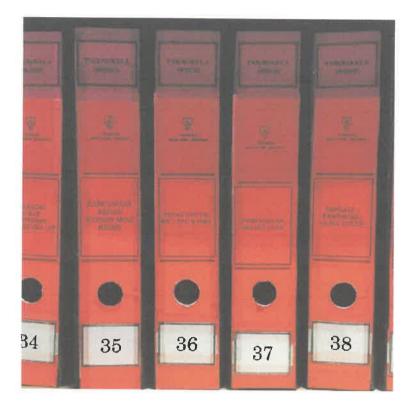


Figure 14 : Photos of Filing in the HRD

Most of the day, there are new file in the department because HR Department is the one that contains the file room. So everyone in other level come to the department to store the file. The trainee have been ask to responsible in labelling the file based on the colour and the number label. The number have to ask the staff because they already have the number but they do not label it.

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# 3.1.11 Print out all the bills in early month

Figure 15 : List of Amount bills

Every month, the trainee have been ask to print out all the monthly bill which is "Air Kelantan", JabatanPelajaranNegeri, JabatanKebajikanMasyarakat, Infra Quest, KeretaApi Tanah MelayuBerhad and Pos Malaysia. These bill need to be print then the trainee need to be key in the amount in the Microsoft Excel. The bills need to be key in every month then when the printing and key in is done, the trainee need to pass the bills to the meter reader and the meter reader will pass it to the customers. The bills need to be print in two copy. One pass to the meter reader and one more need to put in the file and give the file to Financial Department. After the Financial Department key in the amount of the bill, the file need to be stored in BahagianPengguna Department. They have their own store to store all the bills every month.

# 3.1.12 Billing and Customer Relationship Management

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Figure 16 : Photos of Organized Booth in KKTM

For BCRM Billing and Customer Relationship Management there are two components that they are going to control which is Complaints and Service Request. Both of the components have been made by customer that are having problems or they want to add some service. They just go to the "BilikGerakan" in Level 5 of TNB. Then the Saff will note the complaint or service needed then upload in the system which is the system only can open in the "BilikGerakan". The computer is only for BCRM.

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# 3.1.13 "LampuJalan" For Kelantan State

Figure 17 : List of LJK

For one week, the trainee have been ask to filter the "LampuJalan". "LampuJalan" is the one that contains all the detail about "LampuJalan" in Kelantan. MrKhabir Sufi have ask the trainee to filter up the "LampuJalan" according to how many or the amount of the "LampuJalan". For example, for Tanah Merah. The "LampuJalan" in JalanSentosahave 5 and the limit of the "LampuJalan" in one road is 7. So the JalanSentosa is not the limit. If one road has limit such as 8 or 9 in one road, the trainee need to mark with red colour. So that Mr Khabir will take note from the documents.

# 3.1.14 "KemRemajaBestari"



Figure 18 : Photos of KRB Program

This poster have been edit and done by the trainee before the program start. The trainee also attend to the program and stay one night at the hotel because the trainee have been ask to be the facilitator for the participant. On the day, the trainee got the responsible to manage the participant registration and give the talk about the attire of the day.

# SPECIAL

# PROJECT

#### **3.2 SPECIAL PROJECT**

#### **3.2.1 INTRODUCTION**

### 3.2.1.1 PROJECTOVERVIEW

The trainee has been given a special project by TNB to developed a system called eBilik to handle the meeting that are going to held in the meeting room. The system aim is to be used in the Human Resource Department to easy their work in booking the meeting room so that if the room is full, they will know from the system. If the room is full and is being used, the system will not appear the date.

As the trainee related with the Information System Management field, it is effective when the trainee been assigned to develop a new system to be used at this organizations. In addition, develop a system also be one of the main requirement for the trainee need to be completed in period of time during the industrial training. I have been given this task because there is no system related to the booking meeting room. In the Human Resource Department, there is always held the meeting because the room is always full. The requirement have been ask by my supervisor is in the system have the booking request and the user can get the confirmation.

There is a requirement from the Human Resource Department whereas they have faced a problem in manage the meeting room. Before this, the meeting room have to be book by manual. Sometimes the in charged forgot to note the booking. So there will be redundant booking. This is because this department did not applied any method whether a manual even a systematic method that have been applied in order to handle the booking that have been made. So this system has been develop in order to enhance more the daily task activities in this department. In order to fulfill the objective of this Industrial Training, the trainee was required to develop a full new system for the Human Resource Department of Tenaga Nasional Berhad Kota Bharu. The system that being tasked and proposed to the trainee was called "Sistem E-BILIK". This system was being developed under the request of MrKhairulAzuan Bin Ibrahim as the person incharged for the Program in the meeting room in TNB, who is also as the organization supervisor for the trainee and was supervised under MrAsyraff Bin Ismail as the Executive Information Technology and the Technician Assistant Engineer of Building Department MrHaziq Bin Abdullah. The main function why this system was develop is to manage, administer, save and print out the booking form when being issued and when want to be used as the proof for the booking process has been done.

This system only can be retrieved by the staff of the TNB and can be approved by the admin. It mean that the users who make the booking have to fill the booking date and title of the program and the admin will approved the booking. The user need to retrieved the booking is being accepted is through the system. For an example, A book the meeting room for "Meeting Pelitawanis" and he need to fulfill the form. Then the admin will see and approved it. The user need to open again the system after one or two days to see whether the booking is being accepted or cancelled by the admin because the room is full for other program. Other than that, the system also provide some features like the admin can deleted any unnecessary booking that has been entered into the system but it is not related with the department, delete the form that the program have been held. Second is the admin also can update the information that being given by the users maybe the wrong date have been key in. Third is the admin can print out the form for filing if there is any error and broken down the database, so this will be the backup if the problem happen. This system is included with a user manual in the help section to help the beginner-users to use this system without any difficulties.

# 3.2.2 Problem Arise

In Human Resource Department, the record booking meeting room is record manually. Therefore it is quite hard for them to track the booking if other person want to make other booking .Moreover it uses a log book from several past years to record the booking. So if the log book misplaces or missing, there have no backup. By proposed the e-Bilik, staffs can track the flow of the equipment. If they still used the manual way in record the user bookings, it might be out of date. This is because others are using system in order to record the data. This system will be more effective and efficient to staff.

#### 3.2.3 Objective

The objective of this e-Bilik is to facilitate staffs in order to record all the data of the bookings. The system will become more effective and efficient. It will get the best result in recording data in system rather than manually. The objectives are asfollows:

### 3.2.3.1 Save data and information in electronic ways.

Before this, the maintenance department not implement any method even manual or electronics to handle the bookings from the users. Then they also having a difficult problem when want to retrieve the record and data from the bookings. When the user ask, they can't find the bookings. So when this system being implement in this department, the staff can easily save and retrieve back the data and record as they just need to enter list of booking in the system and no need to worry again.

# 3.2.2.2 To manage the bookings effectively

Before of this, the bookings that is received being handle by Clerk in the Human Resource Department, Madam Ghana BintiKoming. But she can't manage the bookings properly because they only used e-mail to book and Madam Ghana will note it in the log book. Sometimes, there have no action when they have book. So when the system have been implement, there will be safe in terms of security of information that have been store. By presence of this system, this department can easily entered the data and receive the bookings faster. This has enhance more the department administration process as they can increase their work of productivity.

# 3.2.2.4 Avoid the loss and damage of information.

Saving the data inside the database is safer than saving it in a piece of paper that lastly will be nowhere to go. This system can help the admin to enter the details of the bookings form. In addition, the trainee also has teaches the admin to auto backup the database once in two week in order as a precaution step if there is a computer error happen. other than that, the data being stored can be easily retrieve when they is needed without considering on how much time they have been keep into the system. This has make the record being keeping in safe and no unauthorized users can access the system and access the data without any permission and this can avoid the data from being misused.

# 3.2.3 The function of developed system should be able to:

- 3.2.3.1 Receive all the information submitted users by self-key in the data.
- 3.2.3.1 Delete unnecessary/out-of-date reports.
- 3.2.3.2 Edit the information that were already taken care of
- 3.2.3.3 Save all the necessary information in the database.
- 3.2.3.4 Print the report needed for a proof.
- 3.2.3,5 Search related data given the keyword such as from the program title
- 3.2.3.6 Prevent unauthorized user from accessing the system.

# 3.2.4 System Development Life-cycle.

The system must have several phases such as planning, analysis, design, implementation and also maintenance.

# 3.2.4.1 Planning

The trainee started the planning of the system by identified, analyze and collect all the data that relate with the system that will be conducted. In this method trainee has asking many question that relate with the bookings meeting room that will be inserted inside the system. All the data and information getting being recorded in an paper that being inserted into the computer for a better ways. According the situation, a lot of discussion needs to be done to obtain the ideas and implement the system e-Bilik especially with the MrKhairulAzuan such as the advantage and disadvantage of using the automatically procedures because before this they are using the manual system. Other than that, any improvement can be done to provide a better system.

#### 3.2.4.2. Analysis

Analysis is the most important part which in analysis phase. In this is a current system and problems are made context there are no current or existing system has been applied and being used in this So there will be a new system being organization. created. In order perform it, the trainee has gathered and asking to about the information that will be need to the inserted into the system which is gained from the one who inspired this system must be create that is MrKhairulAzuan Bin Ibrahim. The problem being discovered here is that there are no systematic even manual way to manage the bookings meeting room and in order to avoid it, an electronic system being prefer in order to save the data with more secure and can be retrieved when being asked easily. There also some improvement being added into the system which is it can generate a report. The required tools for the projects are hardware, software and time operation.

#### 3.2.4.3 Design

Design is not so important in developing this system as the users of the system is prefer more it being design in a very simple ways as they all is very older and it is better to use simple system rather than hard with a high design. It will be complicated for system the users to use it. In this system, the process is only one that is only the admin will inserted the form. In other word, the input and output of the system is only being doing by the admin only. There also many page being inserted that link to each other in order to produce a workflow process while inside the form there will be many field that need to be fill by the admin to insert the information. Other features is search the form, deleted the form, updating the form and also generate a report also being adding into the system for a more effective system generated.

### **3.2.4.4 Implementation**

This is the most critical phase whereas it involved with the coding need to be created in order to produce a system that can be used as planned. A code being generated by using the Php My Admin and MySQL Database to save the data. After that the documentation also being done in order to complete up the report form. A documentation must be clearly being documented as it must ensure all the component, file and also others related information and data about this system being documented all of them correctly. In order to make the users of this system being able to use this system, a user training procedure must be created so that the users can use the system well so that the users can used the system in right way. Other than that, some precaution and backup steps has been implemented to make sure the system is working well and smoothly without any problem through the system that the trainee develop. Also, the test will be conducted by the trainee but it only involved the supervisor of the trainee and the Executive of Information technology in the company. Also, the user manual have been made so that it will guide them when they are using the system.

#### 3.2.4.5 Maintenance

This phase exist in system operation where it consist of implementation of changes that software might experience over a period of time, or implementation of the new requirement or updated of software. Maintenance phase also involving any handling issue that may exist in the software even after the testing phase. This phase also monitors the system performance , rectifies bugs, and request changes are made. In the maintenance phase, three actively activities might happen which are bug fixing, upgrading and also enhancement. Other than that, when the trainee have finish the industrial training, the IT department will take the place in handling this new system and they are going to upgrade the system.

# 3.2.5 Entity Relational Diagram (ERD)

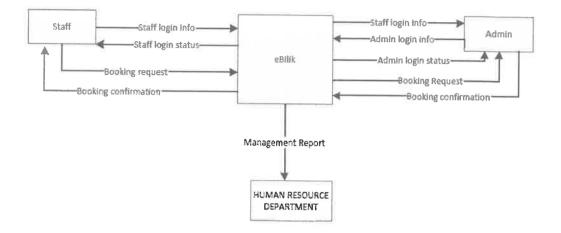


Figure 21 : Entity Relational Diagram (ERD)

### **3.2.5.1 BUSINESS RULES**

- 3.2.5.1.1 One staff can make many booking
- 3.2.5.1.2 Many booking can be made by one staff
- 3.2.5.1.3 One admin can approve many booking
- 3.2.5.1.4 One booking can be approve by one staff
- 3.2.5.1.5 One staff can see their many booking status by one admin
- 3.2.5.1.6 One admin can approved many booking status by many staff

# 3.2.6 Context Diagram of Logical System E-BILIK System



# Figure 22 : Context Diagram

# 3.2.7Data Flow Diagram (DFD) of E-BILIK System

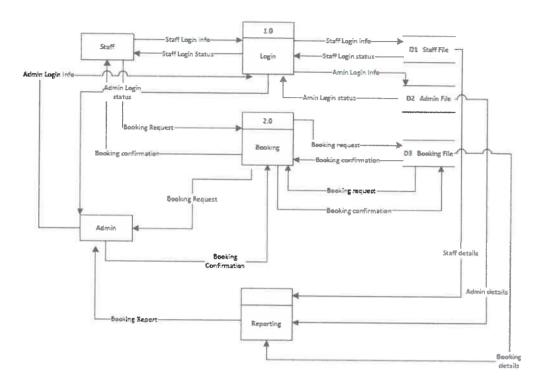


Figure 23 : Data Flow Diagram

# 3.2.8 Technical Feasibility

It is crucial to consider these following requirements to ensure this system development runs smoothly :

Hardware Requirement	Software Requirement
A PC / Laptop	Adobe Dreamweaver
• Operating System : Windows 8	• Web server Application : WAMP
• Processor : Intel Core i5	Server
Printer Canon	• My SQL Database : Php My Admin
• 4GB Flash Drive	Adobe Photoshop CS3
• 4GB RAM	Microsoft Office Project 2010
	Microsoft Office Word 2010

Table 2 : Technical Feasibility

# 3.2.9 Economic Feasibility

Tools	Costs
Hardware	
Personal Computer ACER	RM 1,799.00
• External Rewritable Drive	
• 4GB Flash Drive	RM 25.00
• CD Rom	RM 9.00
Printer CANON	RM 250.00
Software	
• Microsoft Windows 8	Licensed
• Php My Admin SQL	Free Download
Wamp Server	Free Download
Microsoft Office 2010	Licensed
Adobe Photoshop CS3	Free Download
Adobe Dreamweaver CS3	Free Download
Others	· · · · · · · · · · · · · · · · · · ·
• A4 paper	RM 10.00
• Printer Ink	RM 70.00
TOTAL BUDGET COST	RM 2,163.00

Table 4 : Economical Feasibility

# CHAPTER 4: CONCLUSION

# 4.1 Application of Knowledge, Skills and Experience taught

Industrial Training with Tenaga Nasional Berhad Kota Bharu for 20 weeks gives the trainee many knowledge, skills and experience that the trainee gain whether in department or also that outside the department on the other hand, the trainee have gained not only the technical skills but also soft skills such as management skills, groupings kills, communication skills, time management skills creative thinking skills and interpersonal skills. But for the mainly thing that the trainee gained is in term of the system development whereas it has teach the trainee on how to develop a system. With already experience and skill of the trainee from the faculty, the trainee has find many alternative to seek and survive in term of develop a system that be used for more improvement and enhancement in term of department administration. During the industrial training, the trainee has been given a task to develop a full system for the Huma Resource Department which is "Sistem E-Bilik". This system is mainly focused on a booking management in Tenaga Nasional Berhad. The trainee have proposed this system because the trainee have seen the way they organized the booking is very poor.

As all know.when the trainee develops the system by himself and it automatically gained the trainee a knowledge because the trainee can apply what he has learn at the faculty to the organization. This can help the trainee to expose and practically applied it already knowledge to gain another new knowledge when at the organization. On the other hand, the trainee also can improve their skills to develop the automatically system to organization and set up the system from the beginning. In addition, when the trainee develop the system to the organization it can give the trainee new experience when the trainee discuss about the system with others staff, supervisor and also the staff that has been responsible to use the system. Besides that, the trainee can expose their skill to the organization by develop a system to the organization. The trainee also has some

46

experience, skills and also knowledge in term of maintenance and repairing the computer that can be used to teach, show and telling the other staff in the organization. For an example the trainee has teach to some of the staff who are interested in dealing with the computer and also to the young staff rather than old staff as this will make them easily to more understand. This is helpful because when the staff is equip with the knowledge and skill on how to format the computer when blue screen happen, the staff itself can perform it when the trainee is finished from the industrial training.

In addition in order to enhance more the understanding of staff that interested in learning the method, the trainee also has shown some tutorial to them so that they can more easily understand it. This experience and skill not only focused on the computer but also to other stuff like printer and also photocopier machine

On the other hand, the trainee also can expose and getting many new knowledge in term of administer and manage the staff attendance, leave schedule, and many more when the trainee was dealing with punch card system at the the corporate department. Punch card system being used by the organization to record, store, manage and a some issue related with the staff especially related to the attendance of all the staff. This system has help the corporate department as it assist in making the full report of each staff in a month and it can become as the proof when the staff having a trouble or absent to the organization. As the trainee also in the same field of system, the trainee being more easily to adapt and used the system and also can able to understanding the features of the system faster than others. During the industrial training at the organization, the trainee also gained the knowledge by involved the seminar or meeting and go to site. As all know, at the university the trainee just focus on theories only but when the trainee go to the organization, the trainee cam learn more and apply the knowledge and will improve the communication skills with the staff and audience. On the other hand, the experience that the trainee has at the organization is one of the bonuses to the trainee that other people do not have it and it can be the trainee more confidence to have a better job in future.

Lastly is the trainee can enhance more the communication skills as at this organization, the trainee has involved with the site visit at many places that make the trainee to deal with many contractors. Also, the trainee have been ask to be in the registration table when there is any program. Here the trainee can applied the communication skill and also soft skill to communicate and make the registration process be more effective, faster and also simple. As we know deal with many people has test the trainee patience level, but the trainee has succeed to overcome it because at the faculty, the trainee has been trained well to deal with many people, to work in a group and also to decide the best choice a better result.

### 4.2 Personal Thoughts and opinion (Reflective Tone)

Been assigned to doing an industrial training at Tenaga Nasional Berhad Kota Bharu has make the trainee to learn many things that related with the trainee subject field itself. There are too many information, knowledge and skill have been gained and learned at this place. There also a knowledge that the trainee not know been learned here. Something new about the organization daily task also has been interpreted into the trainee itself even it is not related with the trainee field. Other than that, the trainee also has been teaching by the staff here about on how the real work environment play it role. This is different from the environment at the faculty because there are so many things that need to be learned by the trainee in order to enter the new work environment.

Involved in a system development requires the trainee search for what's the problem

48

faced by the unit and find a way to solve them in term of providing new systematic system in order to help a organization to overcome the problem happen. The trainee also needs to apply all the theory in obtaining user requirements. Every staff has their own need whereas it been tried by the trainee to make it true and possible. The trainee also learned how to organize work, how to face the challenges and how to satisfy the user to consider all their needs in the system. Overall, the trainee needs to find a way to make user's tasks. In order to do this, the easier trainee has develop one system name E-BILIK system that been used by the Human Resource Department to handle all of the bookings in Tenaga Nasional Berhad.

After that, the trainee feels the organization always give the opportunity to show the knowledge and skill that the trainee has to make the organization confidence about the knowledge of the trainee. This organization has a very steady work environment because there are no force in doing a job been applied to the trainee even also to the staff. Top position manager always been working together with their low level staff in order to perform a task. In other mean, they all work hard together without considering the position level in order to finish a job. As the trainee is only one that related with the Information Technology field, it required the trainee to handle and solved all the problem related with the trainee always been called to solved a problem at same time but the staff here are very negotiating whereas they will to wait until one job finish then can continued to solved others job. The staff also are very tolerating, good and accept the trainee as their own organization staff even the trainee is not. This is what make the trainee feel more comfortable to having an industrial practical here as good as well.

Next is the trainee also feel that this organization has fixed with the trainee industrial

49

training requirement as many thing that trainee learned can be applied here especially in factor of system developer and also technology used. Been stay here for 5 month is very useful and benefit to the trainee as the trainee can help many others staff in performing their daily task and activity. On the other hand, the during the industrial training the trainee feels more confident because almost every day the trainee practice to wear the formal attire and it looks like the real situation to the trainee to have more confident level when the trainee communicate and shown the real physical to other staff, customer and public people. Practical training program is beneficial to help the trainee to understand the work environment and be prepared physically and mentally to face the real working world when the trainee finished the study. In general, the Practical Training Program allows the trainee to understand more about their field of study and give a clearer picture to move forward in the near future.

#### 4.3 Lesson Learnt

There are some lessons that the trainee have gained at the industrial as training such as: 4.3.1 The trainee should always be updated with current news and information especially in Information Technology field.

As the trainee is the only one that relate with the information technology department, the other staff always asking about the technology and also other news, opinion and also suggestion. This has make the trainee to always alert, explore, expose and also know about the most current information. This can help to expose other staff into the field of technology. Other than that, it become as the trainee responsibility to brief and also tell the others even the things that they didn't ask. On the other hand, the trainee also must know about the active learning design elements ensure that the trainee learns and retains the industrial training objectives through active participation. It allows the participants to explore or experiment with the information or task presented. The information presented gives the trainee an opportunity to infer various principles and strategies for effective performance.

# 4.3.2 The trainee also known about the leadership skills.

Leadership is very important in manage the activity or project been assigned. For an example a project visit school, the trainee need to applied the leadership skills to others trainee member who is new in practical training by giving some information in many ways. Leadership is not only need to be applied in a group, even in individual, the trainee also need to know on how to lead themselves. For signed do it. In the an example, the will do a task even being a to trainee not organization, leadership skills must have in everybody because it important to achieve their goals and the leadership also can be hard to define and it means different things to different people. In the transformational leadership model, the leaders set direction and help themselves and others to do the right thing to move forward. To do this they create an inspiring vision, and then motivate and inspire others to reach that vision. They also manage delivery of the vision, either directly or indirectly and build their teams to make them ever stronger in organization.

# 4.3.3 The trainee learnt about the strategy tools that they used to maintain their quality.

Strategy tools is most important in organization because it shown their ability to execute the organization and business unit strategies successful. Also, to maintain the strategies the organization lead directly to the achievement strategies and the trainee can learnt from that and used when they finish their industrial training. On the other hand, the strategies tool is important and it meaning that all levels of strategy support and enhance each other to ensure that the organization is successful.

# 4.3.4 Work hard to solve the problem arises no matter how.

There are too many task been assigned and been given to the trainee in time of industrial training. The task involve whether related to what trainee learn in faculty and also on what trainee not learnt. For an example on how to solve and find a ways to arrange and sorting the document "Budget 2018" at this organization, the trainee has given an opinion that to categorize the document. This to ensure that there will be easier and faster in term of amended the documents properly. For a task that involve, task about to repair a printer that is already damage and not been used for 2 years. As the trainee is not familiar with the task given, the trainee has make a step by learning online tutorial in YouTube website whereas finally the trainee is successful to repair it. This is what been said work hard on every task given.

# 4.3.5 The trainee learnt how to make a decision making to improve their knowledge.

At the organization, the staff also showed the trainee how to make a decision making properly. Besides that, they teach the trainee how to adapt problem with the real situation and can solve the problem with the positive ways. On the other hand, the trainee learnt some simple techniques to make the decision making skills more effective and efficient. Also, decision making is important because it also may have been a better choice that had not been considered, or the right information may not have been available at the time. Because of this, it is important to keep the information of all important decisions and the reasons why these decisions were made, so that improvements can be made in the future. This also provides justification for any decision taken when something goes wrong.

# 4.3.6 The trainee learnt how to use the communication skills at the organizations.

In any situation communication skills is very important to the trainee because it can show their own personality. At the organization, the trainee also learnt communication skills with the staff, with the boss and also with the customer that the trainee meets every day. Besides that, communication skills also more focus on their process such as from sender to the receiver, message, channel and also have the feedback from others. Also, at the organization, the trainee can improve the communication skills more affective and can develop the trainee more improve the speaking, observing, listening and also understanding the skills that the trainee learnt.

# 4.4 Limitations and Recommendations

#### 4.4.1 Limitations

# 4.4.1.1 Less of Knowiedge about the IT among employees

Naturally, the staff or employee at Tenaga Nasional Berhad Kota Bharu do not have enough knowledge, experience and also information about the information system technology skill such as the usage of excel, power point and another application that occur on computer. The more main issue is the staff did even know how to install a software into their system and also they don't know how to burn a cd if they need. This is because when being asked, they more prefer to use email. The awareness among them also is low as they need to know, realize and understand that with the help of the technology, their work become faster and more effective than doing it in manual ways. Some of them also even not shut down their computer when going back to home and just let the computer stay until he come back to office, here there is very lack of awareness as they need to know that the computer itself can be burned out when the motherboard is overheat and it also will contribute to the burning and also motherboard and battery damage inside the CPU.

# 4.4.1.2 Pirate version of window being installed in most computer in this organization.

Mostly over ratio 9/10 computer inside this organization Tenaga Nasional Kota Bharu has using fake window and also some unregistered application in their administrative daily task. As this application costly but the most important data and record about all staff attendance. This is not appropriate and effective way to be applied this organization. As this can ensure and contribute for the loss of the data and information in the punch card system when the machine break down, then it will make the organization having a problem. Other than that, computer staff also being in same problem this become problem to the department as each of their staff computer being installed with the SAP LOGON System being used to administer and manage all the project and task that relate with the Tenaga Nasional Berhad. So it will cause and contribute for larger problem when we using pirate version on installed window.

#### 4.4.1.3 Unorganized Records.

At the organization, the documents are very important to be kept properly from others because it is confidential and evidence. At Tenaga Nasional Berhad Kota Bharu, some departments just kept the documents at the shelf without numbering and arrange follow by the number. Besides that, the staffs that handle about the documents do not take it serious because they do not know how to arrange properly the record systematically. As this organization is related with many document that is very vital because it show as an evidence. For an example is the billing and the details of the customer but it just been put everywhere without being considered it value to the organization itself. As there are many old group of people here it is been not so important for them to be alert about the record arrangement and administration.

### 4.4.2 Recommendations

As for the recommendation, the trainee suggests a few things that should be taken into consideration during the practical training and also for the organization to be more effective and efficient. These suggestion include:

4.4.2.1 The organization need to expose all their staff into the importance of technology knowledge.

This step is vital as it can ensure every people are alert, aware, have knowledge and know on how to handle their operation that relate with the technology usage like computer and printer. When they are alert and know about the technology, their job will become easier as they are already know about some the knowledge about in using the technology. For an example, the staff will no longer having difficulties in doing a work that relate with the computer software like by using the Microsoft word, excel and so on. This is because when they are more alert about the knowledge, they will be able to absorb any knowledge that relate with their daily task. Other than that, the organization also can invite an expert to give a talk and train the staff into a new and easy skill in handling the technology especially usage of computer. Then a seminar and visit to other IT company also can be handled as it also can contribute for more addition of the knowledge. Then the most vital steps can is every staff that who is more expert in using the computer and software need to teaches others staff especially who is in old age. This attitude will give good results but also compulsory needed in order to gain a benefits for all of the staff to overcome the problem of less IT knowledge among staff.

# 4.4.2.2 Implement an original software and window in every computer.

The organization itself should be aware with the used of the pirate software and window as the serious damage they can caused problem. For to the data and information when the computer being in an example, punch card system used for catching and storing the has been installed at a data about the employee attendance computer with a pirate window version. This is the serious problem if not want any not being overcome as soon as possible as they did this damage of the data stored inside the system. In addition, computer also is an old version running with a low hard drive and also a processor is too slow. This is wrong as the system RAM and is a tool that been used every day, assist in task operation, and hold a huge amount of data stored inside it database and it should not be doing that. It should and compulsory to be installed on original like windows to ensure no problem occurred in future.

#### 4.4.2.3 Systematic and effective

Record management should be applied and need to alert and know on how to manage and keep all of their record more secure, systematic, effective and also efficient so that record with a value will be keep and being maintain safely. A secure record management will ensure that there will be no misplaced and loss of record and in addition it also can avoid from the valuable record being get to unauthorized persons. Other than that, a systematic and proper arrangement of the record itself will ensure that it will be easy to be retrieve when it is in demand to be used when it require. To apply this statement, this organization need to applied the record storage and record system so that all the record can be arrange, store and keep with more systematic. By helping from the electronic system tools, many benefits can be gain like can avoid from the duplication of same record that can reduce the storage space used to store the record. After that as this organization been dealing with many record, documents and data, it is very compulsory to apply all the above method so that their record will be manage and maintain into more systematic way than before.

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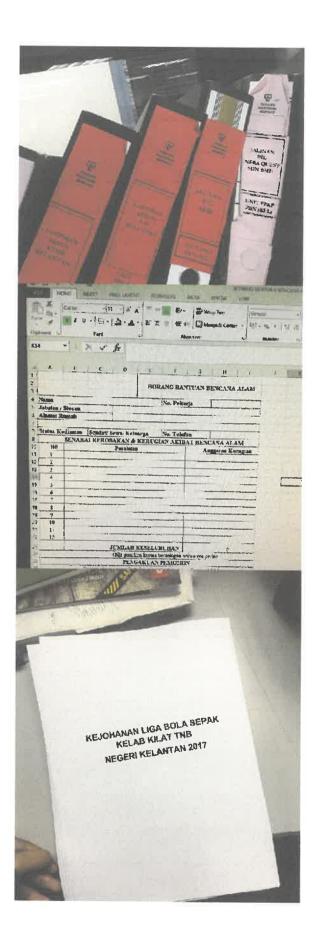
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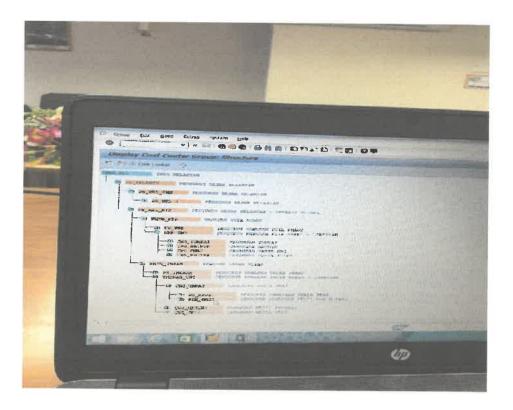
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# **APPENDICES**

# **APPENDIX A** (Image on Activities)



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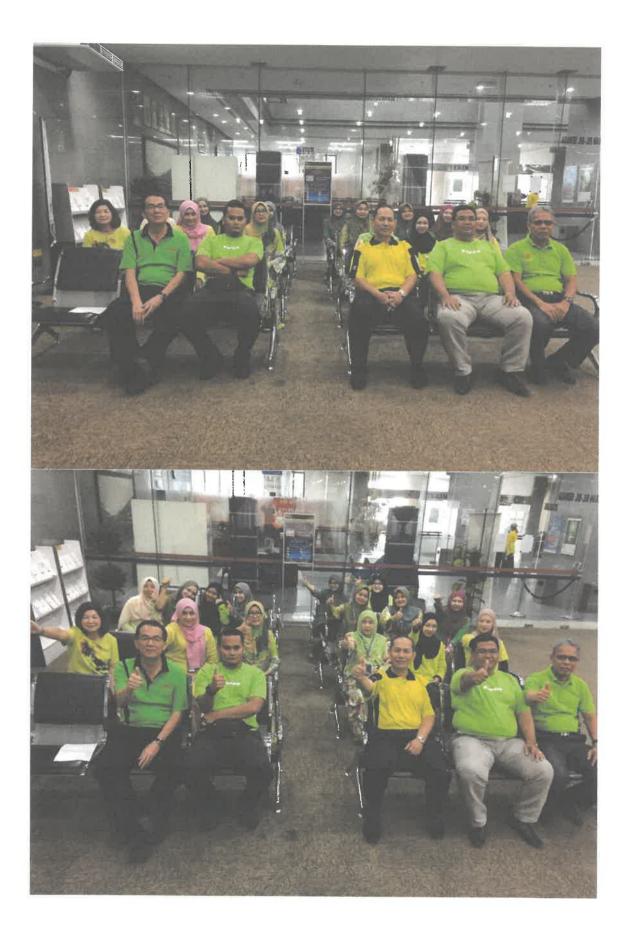














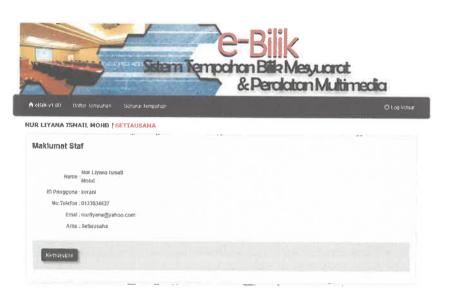




## APPENDIX B (Screen Shot Of The System)

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### Log in Page E-BILIK System



Main Page of E-BILIK System

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### Booking Form of E-BILIK System

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List of booking E-BILIK System (Only can be retrieved by the Admin)

## APPENDIX C (User Manual of E-BILIK System)



**PANDUAN PENGGUNA** 

E-BILIK

TENAGA NASIONAL BERHAD KOTA BHARU

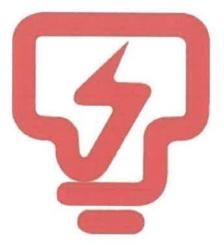
### **APA ITU SISTEM E-BILIK?**

E-BILIK IALAH SISTEM YANG MEMBERI KESENANGAN KEPADA PENGGUNA TENAGA NASIONAL BERHAD KOTA BHARU.

IANYA UNTUK MEMBUAT TEMPAHAN DI DALAM TENAGA NASIONAL BERHAD BEKENAAN DENGAN PROGRAM YANG BAKAL DIADAKAN DI SANA.

#### BILIK-BILIK YANG DAPAT DI TEMPAH

BILIK MESYUARAT LEVEL 1 BILIK MESYUARAT LEVEL 2 BILIK MESYUARAT LEVEL 3 BILIK MESYUARAT LEVEL 4 BILIK MESYUARAT LEVEL 5 BILIK MESYUARAT LEVEL 6 E-BILIK UNTUK BAHAGIAN SUMBER MANUSIA, TENAGA NASIONAL BERHAD KOTA BHARU



P E N G U N A

#### LOG MASUK KE DALAM SISTEM E-BILIK



Cara-cara :

- 1. BukaAplikasi Internet yang terdapat di dalam computer andadancari "Localhost".
- 2. TekanpadaSistem E-BILIK Sistemuntukmasukkedalam.
- 3. Silamasukkan "ID Pengguna" dan "Kata Laluan" untukmemasukisistem.
- 4. Tekan "MASUK" untukselanjutnya
- 5. Tekan "SEMULA" jikaadasebarangkesalahan.

#### **MUKA DEPAN SISTEM E-BILIK**



Cara-cara :

- 1. IniadalahmukadepanSistem E-BILIK
- 2. Pilih mana-mana butanguntukselanjutnya
- 3. Jikaandamemilihbutang

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#### **MEMBUAT TEMPAHAN BILIK**



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- 1. JikaandamemilihDaftarTempahan, Mukatempahanakankeluar. Andabolehmulamembuattempahan.
- 2. Isi setiaptempatkosong di dalamsistem
- 3. Selepasitu, tekanTempah

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- 2. Andabolehmenukar kata laluanTekanmenekanbutangTukar

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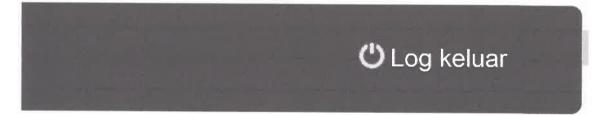
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- 3. Admin akanmengambil masa 24 jam untukmeluluskan



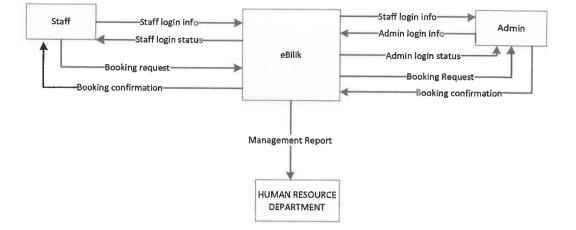
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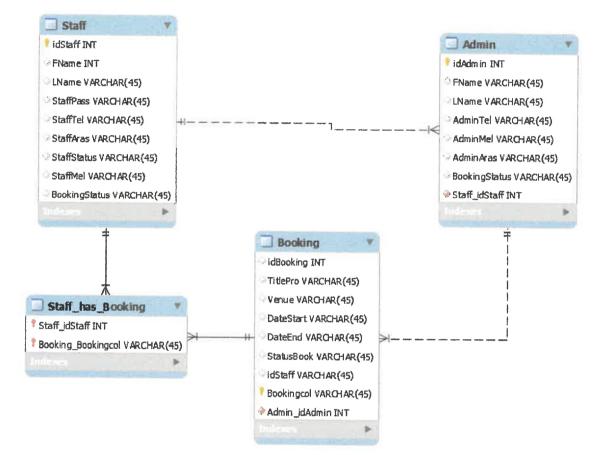


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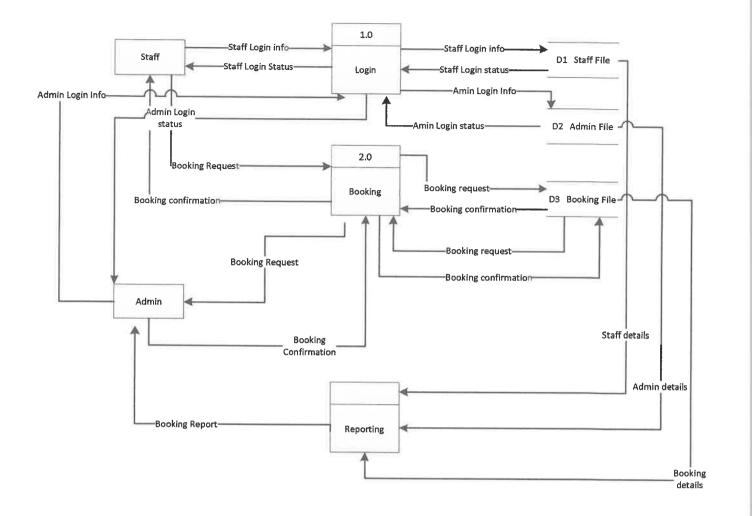
## APPENDIX D (Context Diagram)



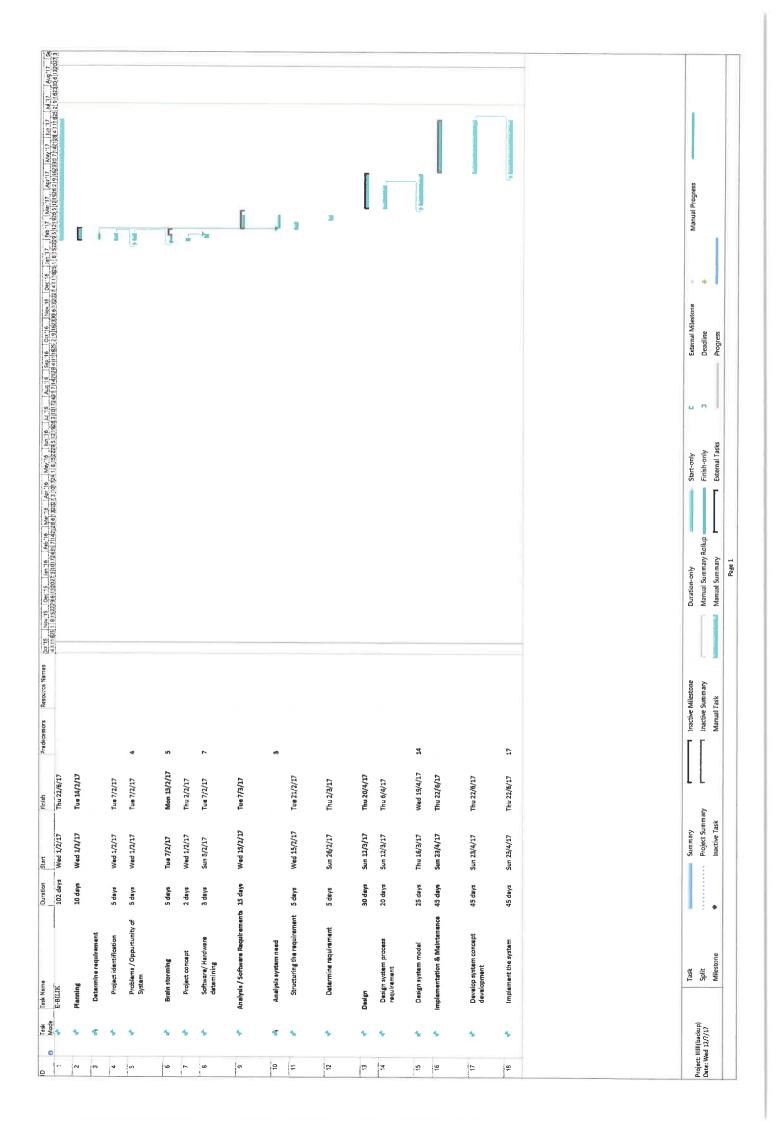
# APPENDIX E (Entity Relational Diagram (ERD))



## **APPENDIX F** (Data Flow Diagram(DFD))



### APPENDIX H (Gantt Chart of E-BILIK System Progress)



### **APPENDIX I**

# (Data Dictionary of E-BILIK System)

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# **APPENDIX J** (Software Function Details)

Notepad++	Notepad++ is a free (as in "free speech" and also as in "free beer"
	source code editor and Notepad replacement that supports sever
	languages. Running in the MS Windows environment, its use
	governed by GPL License. Based on the powerful editin
	component Scintilla, Notepad++ is written in C++ and uses pur
	Win32 API and STL which ensures a higher execution speed an
	smaller program size. By optimizing as many routines as possibl
	without losing user friendliness, Notepad++ is trying to reduce the
	world carbon dioxide emissions. When using less CPU power, th
	PC can throttle down and reduce power consumption, resulting in
	greener environment. This noted we used to do the programming an
	coding.
Wamp server	WAMP stands for "Windows, Apache, MySQL, and PHP." WAM
software (Free)	is a variation of LAMP for Windows systems and is often installe
2	as a software bundle (Apache, MySQL, and PHP). It is often use
	for web development and internal testing, but may also be used t
	serve live websites. You will be able to tune your server without
	even touching the setting files. Wamp Server is the only package
	solution that will allow you to reproduce your production serve
	This wamp serves we used to access the local host and database
MySQL	MySQL, pronounced either "My S-Q-L" or "My Sequel," is an
	open source relational database management system. It is based on
	the structure query language (SQL), which is used for adding,
	removing, and modifying information in the database. Standard
	SQL commands, such as ADD, DROP, INSERT, and UPDATE can
	be used with MySQL. This MySQL we used to store the database in
	our system.

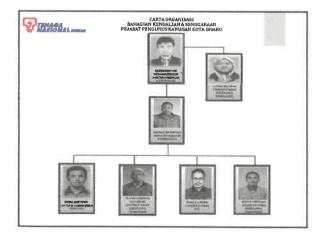
### 7/12/2017

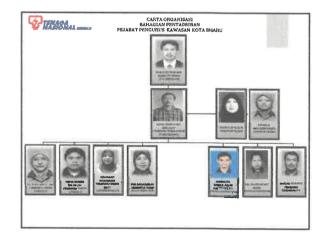








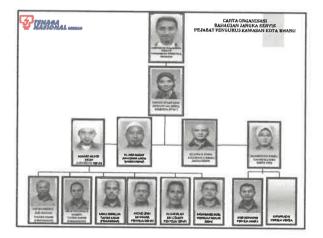




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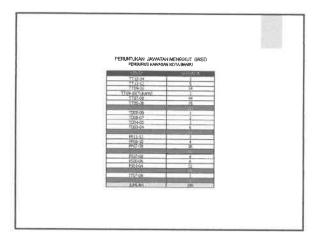






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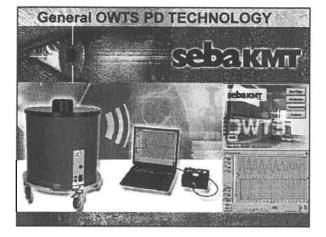


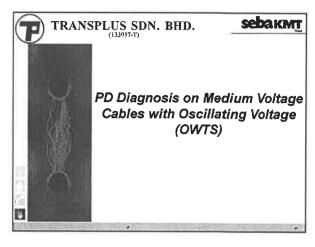
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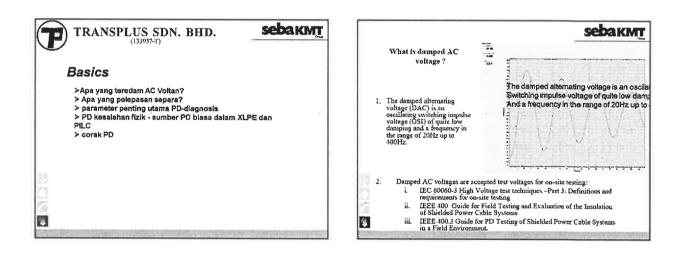
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4	Martial Management & Meturing Services	IKS & EPPP	- 27
5	Construction Of Distribution System	JPP	
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13	Financial Management	APO	
14	Flumma Resources & Administration	ET (5A)	
11	Rafisty & Beulth	355	
16	fristait Mangement & Organizational Development	(Habshatt)	
17	TSignat	SA	
18	Quality Manual General Procedures	ROD	
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70	Information Control System (MEC)		
21	EKKM	JPP	
22	LPC Management	EPPP	

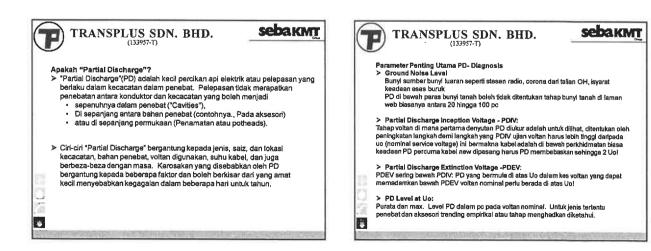
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4	Mazhan bin Awarg	Eksekutif Kewangan	019-9596005			
5	Mohd Amir Faiz Bin Mohamad Nor	Jur.Kendalian Sengguraan	017 - 8833327			
5	Wan Rusli bin Wan Mat	Eksekstif Tadbir	019 - 9818191			
7	Nik Azhar ben Moharnad	Eksekutif Teknik (JPP)	019-3818349			
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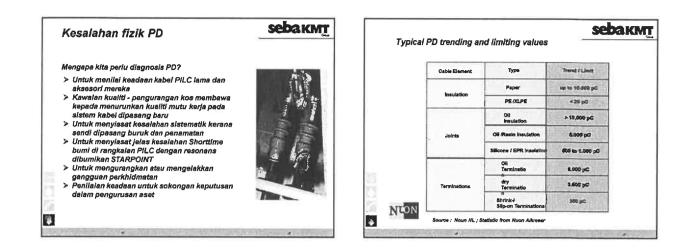


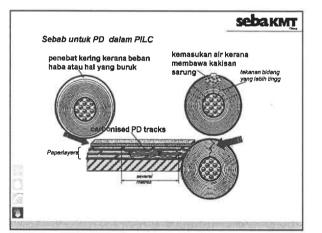


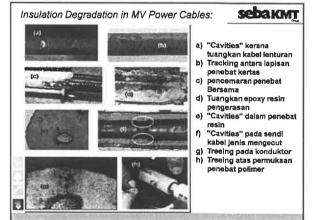


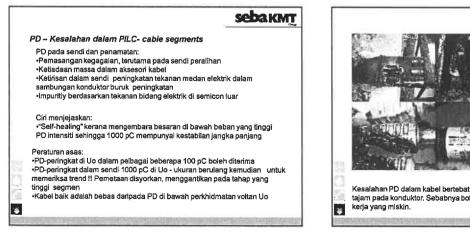






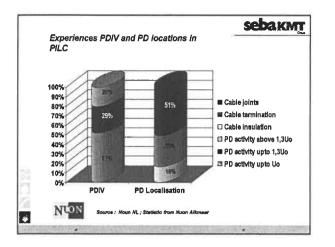


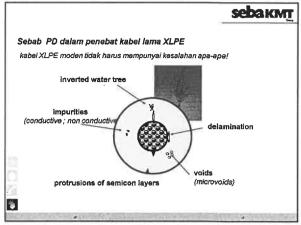


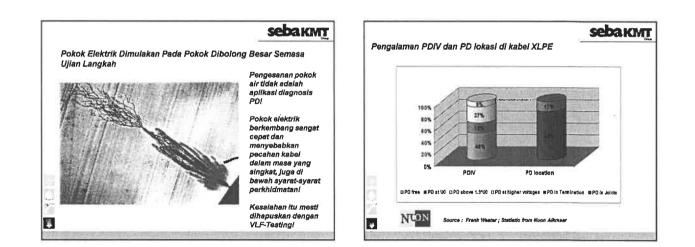




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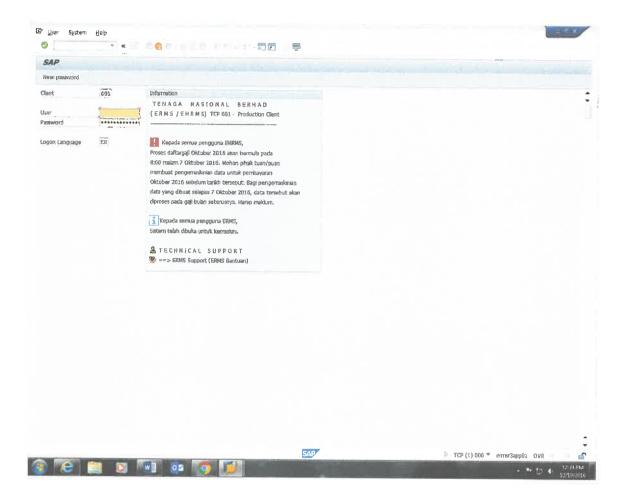
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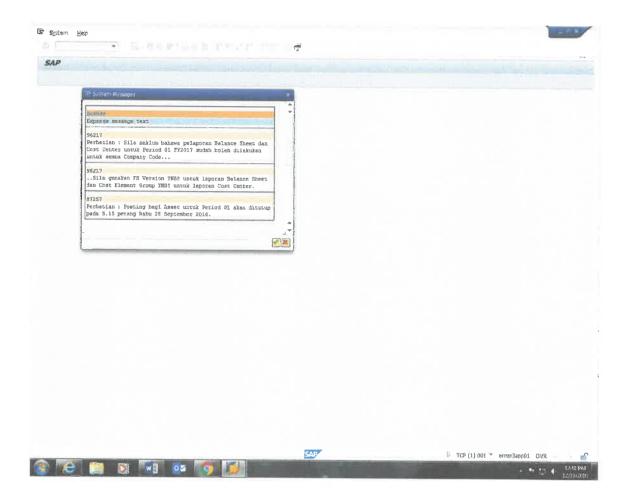
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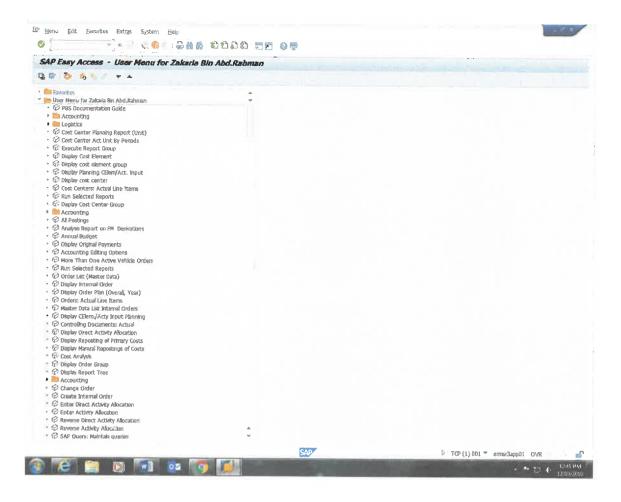
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# **APPENDIX L** (LOGSHEET SYSTEM)

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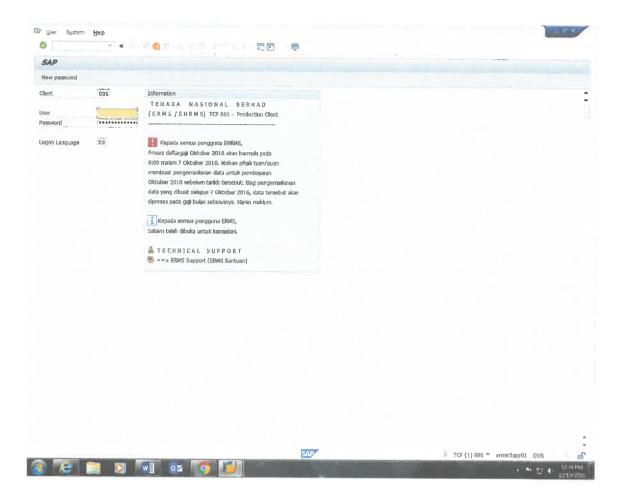


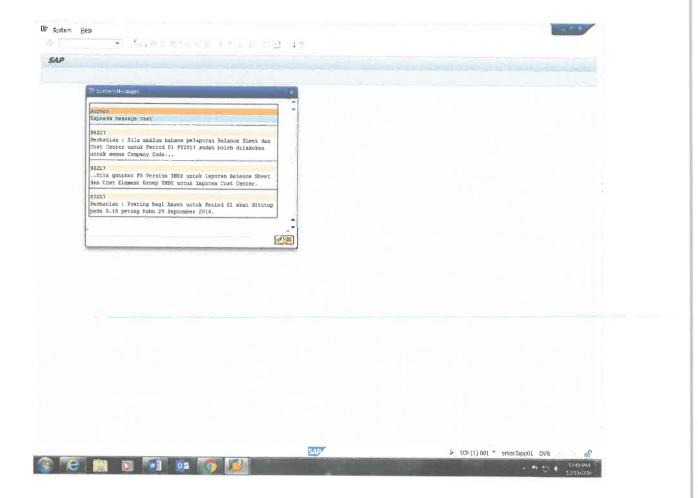
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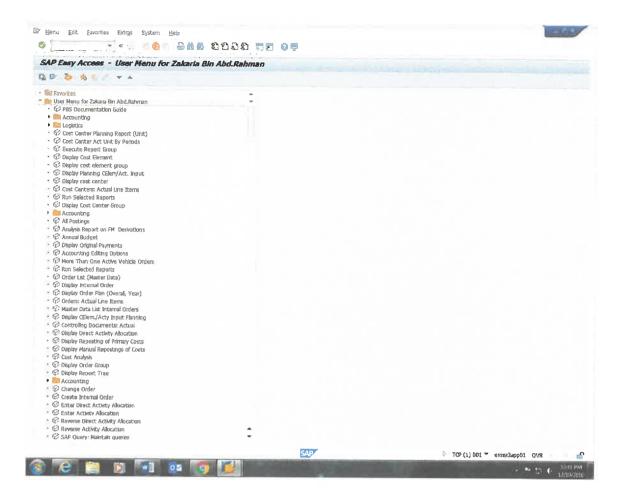
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