

DEPARTMENT OF BUILDING SURVEYING FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING UNIVERSITI TEKNOLOGI MARA SERI ISKANDAR CAMPUS, PERAK

CONDITION SURVEY AT HOSPITAL SULTAN HAJI AHMAD SHAH, TEMERLOH.

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It is privileged to do the condition survey report at Hospital Sultan Haji Ahmad Shah, Temerloh for my practical report. Thank you to my supervisor, En. Mohd Ridhwan Hizami Bin Abd Rashid and his assistant, En.Saifful Bin Sukimi because guide me to finish the report. Besides that, they also give the advice about the causes and their remedies work for the defect.

Other than that, I also thankful to my practical supervisor that is Pn. Intan Bayani Binti Zakaria and Puan Maryati Binti Zahari, because they have guided me to do the condition survey report. They also give the information about the practical information. More than that also thanks you to my mum and dad because they give support to finish this report.

Lastly, thank you to my entire classmate (AP1196B) because they always give information and share their opinion to complete this report. We are also do the report at the same time although we are in different places.

CHAPTER 1 DETAIL OF PROPERTY

1.0 INTRODUCTION

In the survey work, we are required to do a building condition survey work. We have to survey for the internal and external of the building. We also have to identify the building defects, it possible causes, it remedies and also to analysis of the defects expend in the future. After that, the report should be prepared to be documented.

As Building Survey student, we need to provide professional advice in every aspects of property and construction in the building. This surveying is focus on defects in Hospitals Sultan Haji Ahmad Shah, Temerloh. So we have to define the defect, the causes of defect and the remedies work for the defect.

- i. From the study, we can define the problem appear at the building and needed to maintenance.
- ii. We also define about causes of the defect and its remedies.
- iii. We have carried out a building survey and doing analysis of building condition.

It is recorded that have been inspected this building for once for a month, from 9.00 am till 12 pm. The inspection has been carried out by engineer, En MohdRidhwanHizami Bin Abdul Rashid, his assistant, En. Saiful Bin Sukimi), Radicare staff and user.

1.1 DESCRIPTION OF PROPERTY / BUILDING BACKGROUND

Hospital Sultan Haji Ahmad Shah constructed in June 2002 until 15 January 2005. This project was completed within 34 month. The cost of construction was 480 million. There are nine floors that can be occupied in this hospital. The purpose of this construction is to replace the uses of Hospital Mentakab.

Besides that, the hospital was officially opened to public on 27 March 2006. It was officially lunch by Sultan Haji Ahmad Shah. The hospital was served the growing healthcare needs of not only the district of Temerloh, but as a referral centre for Kuala Lipis, Raub, Maran, Bentong, Jerantut and Bera.

More than that, various healthcare services of the hospital were started in stages between March 2005 and 16 April 2005. The hospital was officially opened by Sultan Haji Ahmad Shah of Pahang on 27 March 2006. The name change from Hospital Temerloh to Hospital Sultan Haji Ahmad Shah was in recognition of the Sultan's graciousness in consenting to the launch.



Photo 2.1: Hospital Sultan Haji Ahmad Shah

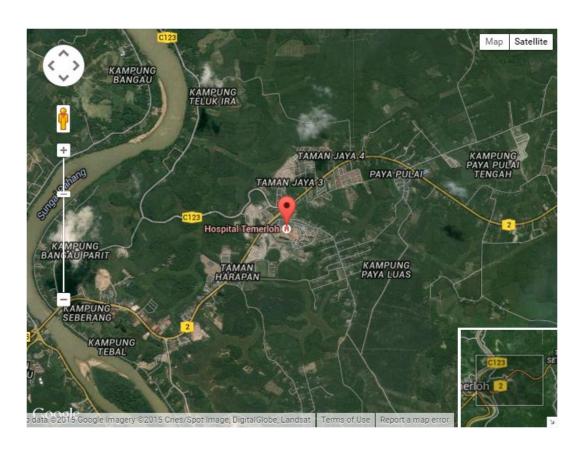


Photo 2.3: The Location Plan

Source: https://maps.google.com.my/

1.2 LOGO, VISSION, MISION AND OBJECTIVE OF HOSPITAL SULTAN HAJI AHMAD SHAH

1.2.1 LOGO



س - Sultan

ح - Haji

1 - Ahmad

Shah - ش

Meaning symbols on the logo

- 1. Gading Symbol of strength
- 2. The yellow, red and blue the corporate Coat Ministry of Health (MOH)
- 3. Combined z icons, --- form DNA (elements of human beings)
- 4. is needles (medical)

1.2.2 VISION

To create the services that provides health services where patients maximized.

1.2.3 MISSION

The mission is:

i. Simplify and enable people

- Maximize their health status
- ❖ Appreciate health as a valuable asset
- ❖ Enables the customer is responsible and act to improve their health

ii. Improving the quality of hospital system through

- Focus on customers
- Fair
- Efficient
- Keep the customer information
- Using affordable technology
- Innovative
- ❖ Where appropriate environment

Iii. Through values

- Corporate Culture (caring, professionalism, and teamwork)
- Respect
- Community involvement

1.2.4 QUALITY OBJECTIVE HOSHAS

- 1. Establish basic data for quality improvement activities 'Quality Improvements' in Hospital Sultan Haji Ahmad Shah (HoSHAS) and examine the advantages and disadvantages of activity.
- 2. Identify problems in the structure and quality of human resources and establishing measures for the improvement of the Quality Assurance Program (QAP).
- 3. Standards set by higher authority (MOH, MSQH, and others).
 - National Indicator Approach (NIA)
 - Key Performance Indicators (KPI)
 - By programs / activities
 - Compliance & Outliers
 - Monitoring at Institution, State and Ministry levels
- 4. Hospital Specific Approach (HSA)

CHAPTER 2 LITERATURE REVIEW

2.0 INTRODUCTION

Building surveyor is 'The person who making an inspection of building all types, so far as the nature, designed and structure of the building and condition of occupancy and furnishing allow, and preparing a report expressing an opinion on the condition and standards of construction and recommending the extends of any necessary repairs and future maintenance requirements'

I want to produce a report about condition survey at Hospital Sultan Haji Ahmad Shah. The purpose of condition survey is to provide an opinion on the general condition of a building and give advice on any urgent or future repairs and the likely consequences of non-repair. The maintenance of the hospitals is carried out by Radicare Sdn. Bhd (M).Radicare Sdn Bhd is the outsource company that has been assigned to do the maintenance work at Hospital Sultan Haji Ahmad Shah.

The inspection was carried out by month and evaluated by engineers, assistant engineers, Liaison Officer for each service (Radicare) and user (Doctor). This inspection is to provide information to hospital staff about the role of concession company (Radicare).

2.1 DEFENITION OF MAINTENANCE

The definition of maintenance by British Standard (BS 3811:1984) is "Building maintenance is work undertaken in order to keep, restore or improve every facility, i.e. part of the building, its services and surrounds t an agreed standard determined by the balance between need and available resources, and to sustain the utility and value of the

facility". There is several type of maintenance that can be use to main the physical life of building.

2.2 TYPE OF MAINTENANCE

a) Planned Maintenance

Planned maintenance is scheduled maintenance to an object or item of equipment. It is scheduled to service visit carried out by a competent. It is to ensure that an item or equipment is operating correctly and to prevent or avoid any unscheduled breakdown and downtime.

b) Preventive maintenance

Preventive maintenance is to carried out at predetermined intervals, or corresponding to a prescribes criteria, and intend to reduce the probability of failure, or the performance degradation of an item.

c) Corrective maintenance

Corrective maintenance are carried out after the failure has accured, and intended to restore and item to a state in which it can perform its required function.

d) Routine/Scheduled maintenance

This is planned maintenance involves regular tasks done on daily, weekly or monthly basic for example cleaning services and switching on the air condition.

e) Condition Based/Ad-Hoc maintenance

This is the preventive maintenance initiated as the result of knowledge of condition of an item from routine or continuous monitoring.

f) Emergency maintenance

Emergency maintenance is maintenance that is necessary put in hand immediately to avoid serious consequences.

2.3 TYPE OF MAINTENANCE IN HOSPITAL SULTAN HAJI AHMAD SHAH, TEMERLOH.

The maintenance of Hospital Sultan Haji Ahmad Shah, Temerloh is carried out by Concession Company that is RadicareSdn.Bhd. The service that is carried out by Radicare is Facility Engineering Maintenance Services (FEMS), Biomedical Engineering Maintenance

Services (BEMS), Clinical Waste Management Services (CWMS), Cleansing Srevices (CLS) and Linen Laundry Services (LLS).

This various type of services is carried out to make sure the operation of Hospital Sultan Haji Ahmad Shah, Temerloh is going smoothly without any breakdown. The RadicareSdn. Bhd carried out the maintenance service from the beginning of the hospital operation. The maintenance service also been documented and been recorded in Central Management Information System (CMIS).

The engineer of the hospitals have to check in the document and in Central Management Information System (CMIS) to make sure the concession company (Radicare) do their work with the specific time. The deduction can be deduct to the concession company if they didn't do their work or late respond (late to do their work).

The objective of maintenance is:

- a) To retain the value of the property.
- b) To present a goof appearance.
- c) To maintain condition s that will continue to fill its function.
- d) For the statutory requirement e.g. safety, health and welfare provision.
- e) To obtain high level of security.
- f) To exist a good environment for user and occupier.

- g) To maximize the efficiency of services available.
- h) To prolong the building life.

2.3.1 SCHEDULED MAINTENANCE

The objective of the scheduled maintenance is to define the procedure for schedule works maintenance for equipments and building facilities under the Facilities Engineering Maintenance Services (FEMS) and Biomedical Engineering Maintenance Services (BEMS).

The services also carry out to repairs and to restore to a specified condition.

The scope of unscheduled maintenance is:

- a) Carrying out Planned Preventive Maintenance
- b) Carrying out Routine Inspection
- c) Carrying out Scheduled Corrective Maintenance

The Procedure of Scheduled Maintenance

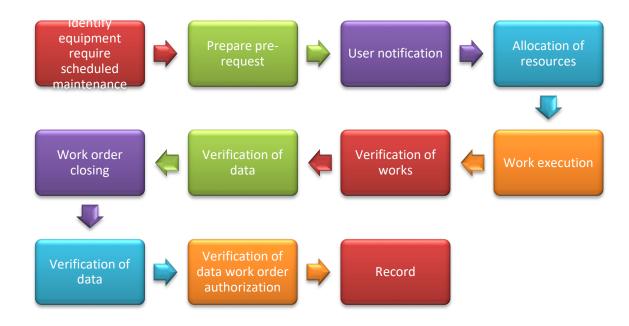


FIGURE 7.1.1The Procedure of Scheduled Maintenance

2.3.2 UNSCHEDULED WORK

One of the maintenance strategies in this hospital is Unscheduled Maintenance. The objective of the procedure is to define faults to buildings, plants and equipments that has been maintained by Facilities Engineering Maintenance Services (FEMS) and Biomedical Engineering Maintenance Services (BEMS). The services also carry out to repairs and to restore to a specified condition.

The scope of unscheduled maintenance is:

d) Carrying out Breakdown Maintenance

- e) Carrying out Corrective Maintenance
- f) Carrying out Non-Maintenance Request

The Procedure of Unscheduled Maintenance



FIGURE 7.1.2The Procedure of Unscheduled Maintenance

2.4 FACILITY ENGINEERING MAINTENANCE SYSTEM

The Facility Engineering Maintenance System (FEMS) is the systems comprise all of the parts or individuals assets which are necessary for the system to operate effectively. The maintenance services cover the:

- i. Electrical supply
- ii. Cold water supply
- iii. Hot water supply
- iv. Drainage system
- v. Sewerage system
- vi. Air conditioning and ventilation system
- vii. Fire protection system
- viii. Medical gas system
 - ix. Steam supply system
 - x. Communication system
 - xi. Vertical transportation system
- xii. Lightning protection system
- xiii. LPG and Industrial Gas system

The Facility Engineering Maintenance System is covered all of the system including the building system. Building system is considered to be building fabric, wall, floors, ceilings, cupboards, furniture, and fixture. A request by the user to carry out breakdown maintenance and corrective maintenance or any other request additional to those normally provided excluding reimbursable works.

2.5 KEY DEDUCTION INDICATORS FOR FACILITY **ENGINEERING MAINTENANCE SYSTEM (FEMS)**

NO	INDICATORS	DESCRIPTION OF	PARAMETERS	WEIGHTAGE
		INDICATORS		
1	Are all the	Facility Engineering	No of system x	0.19
	functioning	System such as electrical	user location x	
	facility	system, water supply	days for the	
	engineering	system, fire protection	month plus.	
	systems which are	system, air conditioning	No. of assets not	
	required for use in	system and etc. are to be	included in	
	god working	assessed to ensure all	systems x days	
	order?	system functioning at the	for the month	
		time		
2	Have PPM,	Planned preventive	PPM for the	0.25
	routine inspection	maintenance, routine	month, routine	
	and scheduled	inspection and scheduled	inspection for the	
	corrective	corrective maintenance	month and	
	maintenance been	are to be checked to	scheduled	
	completed for the	ensure all of them have	corrective	
	month?	been carried out	maintenance for	
		according to the	the month	
		scheduled		
3	Have PPM,	PPM, routine inspection	PPM for the	0.12
	routine inspection	and scheduled corrective	month, routine	
	and scheduled	maintenance are to be	inspection for the	
	corrective	checked to ensure all of	month and	
	maintenance been	them have been carried	scheduled	
	completed for the	out according to the	corrective	
	month on time to	schedule.	maintenance for	
	schedule?		the month	

NO.	INDICATORS	DESCRIPTION OF	PAR	AMETERS	WEI	GHTAGE
		INDICATORS				
4	Are all applicable	Certificates and	No. o	of assets and	0.01	
	statutory	licenses of electrical	perso	nnel		
	requirements	charge man, boiler	requi	red for legal		
	complied with and	man, firefighting	comp	oliance for		
	are the system	equipment, etc. are to	the m	onth and		
	operated correctly?	be checked to ensure	requi	red systems		
		they all valid and				
		comply with the law.				
		Correct operation and				
		logbook records of the				
		major systems				
		including water,				
		electricity steam etc. as				
		required.				
5	Has the testing and	Schedule of user	No. o	of testing and	0.01	
	commissioning been	training is to be	comn	nissioning		
	witnessed?	checked to ensure all	sched	luled for the		
		training is carried out	mont	h		
		according to schedule.				
		User training includes				
		fire drills, fire safety				
		demonstrations,				
		electrical outlet				
		identifications,				
		electrical safety				
		protection etc. Well				
		trained staff ensures				
		facilities are operated				
		efficiently and safely.				
	NO. INDICATORS	DESCRIPTION OF	,	PARAMETI	ERS	WEIGHT

		INDICATORS		
6	Has the testing	All scheduled testing and	No. of testing and	0.01
	and	commissioning are	commissioning	
	commissioning	required to be witnessed.	scheduled for the	
	been witnessed?	New installations are	month	
		required to be tested and		
		commissioned before it is		
		put into services. This		
		ensures that the		
		installations are		
		functioning according to		
		the specifications, and it		
		is safe to be used. During		
		Testing and		
		Commissioning the		
		equipment is tagged and		
		all relevant data are		
		logged into the asset		
		database such that the		
		Planned Preventive		
		Maintenance scheduled		
		can be prepared.		

NO.	INDICATORS	DESCRIPTION OF	PARAMETERS	WEIGHTAGE
		INDICATORS		

7	Has the technical	All technical advice	No. of technical	0.01
	advice sought by	sought by the Hospital	requests for the	
	hospital been	Director is to be provided	month	
	provided?	in a timely manner. This		
		will ensure the hospital		
		will have the necessary		
		advice and support form		
		the contractor to make		
		any technical decision.		
		Condition appraisal for		
		minor or reimbursable		
		works also considered		
		technical advice.		
0	**			0.06
8	Has appropriate	The contractor is required	No. of service	0.06
	response time	to respond to service	requests for the	
	been provided?	request to minimize the	month (excluding	
		time the equipment is not	PPM)	
		available for use.		

NO	INDICATORS	DESCRIPTION	PARAMETERS	WEIGHTAGE
		OF INDICATORS		

9	Are all reports	A number of reports	No. of reports &	0.4
	submitted on	are required to be	records submitted	
	time?	submitted so that	for the month	
		verification of work		
		done can be		
		achieved.		
10	Are all the	Sampled data from	Total number of	0.4
	reports & records	all sources to be	applicable records	
	accurate and	examined to ensure	(Based on	
	correct?	all data are correct.	samples taken of	
		Data is required to	these records)	
		be accurate all the		
		times.		
11	Have all services	The contractor is	Service requests	0.19
	requests been	required to complete	for the month,	
	completed within	the repairs in the	plus requests not	
	the agreed time	agreed time unless	closed for the	
	of 15 days?	exempted by the	previous months	
		Hospital Director.	(excluding PPM	
			and reimbursable	
			work)	

(Source: Guidelines for The Application Of The Deduction Formula For The Privatization Of The Hospital Support Services)

Table 8.1.1 Facility Engineering Maintenance System Key Deduction Indicators

2.5 KEY INDICATORS

2.5.1 Key Indicators (Equipment Functioning).

A deduction will be incurred when a complaint is received that any system or asset identified in the asset register is not available to provide the service when required. The Maintenance Information System (MIS) will also be used to generate demerit points. It is the contractor's responsibility to capture all assets in the assets register.

A deduction will be applied for the system when part of the system is not working in the area required for use. For example, in the occupied ward, one light does not operate therefore the deduction would apply. Likewise if a medical gas outlet is faulty and a patient is connected to another outlet or moved to another ward, a deduction will apply. Deduction will be applied daily until the fault is rectified. No deduction will be applied under this indicator if loaner equipment is provided. Loaner equipment must provide equal or better service to the agreement of the users. No deduction will be apply if the equipment is standby and is not required for use. No deduction will be apply to items proposed for Exemption / BER / Condemned until they are assessed by SIHAT. Deduction will be applied from the date of complaint if the application of for Exemption / BER / Condemned is not approved. Approval of the exemption list will be by the Hospital Director and BER items by MOH Engineering Division or JKR and condemned items by the hospital.

Thus, no deduction will be applied due to failure of a utility company to provide water or electricity. If the contactor fails his responsibility to ensure the standby generator and battery system operate a deduction will be applied to all equipment required to operate on essential supply during power failure. Deduction will also applied to lack of water if a contingency plan has not been submitted. The water contingency plan should provide for two days on site storage.

The parameter of the deduction application is:

Number of user x User location x Days for the month. Number of asset not included in systems x Day for the month

2.5.2 Key Indicators (Planned Preventive Maintenance, Routine Inspection and Scheduled Corrective Maintenance).

Planned Preventive Maintenance, Routine Inspection and Scheduled corrective maintenance are to be checked to ensure all of them have been carried out. Routine Planned Preventive reduces the downtime of the equipment. Routine Inspection is required to be carried out on a regular basic to ensure facilities are in good working conditions. Scheduled corrective maintenance needs to be carried out promptly to place equipment and facilities back in good condition again.

The application of deduction:

A deduction is incurred if PPM, Routine Inspection and scheduled corrective maintenance has not been completed for the month. If PPM, Routine Inspection and scheduled corrective maintenance is rescheduled and agreed by the hospital

2.5.3 Key Indicators (Planned Preventive Maintenance, Routine Inspection and Scheduled Corrective Maintenance to Schedule).

Plan Preventive Maintenance, Routine Inspection and scheduled corrective maintenance are to be checked to ensure all of them have been carried out according to the schedule.

The application of deduction:

A deduction is incurred if the PPM, Routine Inspection and scheduled corrective maintenance is not completed within the scheduled time. If Plan Preventive Maintenance is rescheduled and agreed by the hospital then the

2.5.4 Key Indicators (Statutory Requirements)

Certificates and licenses of electrical charge man, boiler man, fire fighting equipment, high-pressure vessels and etc are to be checked to ensure they all valid and comply with the law. Correct operation and logbook records of the major system including water, electricity system etc as required.

The application of deduction:

A deduction is to be applied to all areas where valid certificates and licenses are not renewed and available for inspection.

2.5.5 Key Indicators (User Training)

Scheduled of user training is to be checked to ensure all training is carried out according to the scheduled. This is includes fire drills, fire safety demonstrations, electrical outlet identifications and etc. Well trained staff ensures facilities are operated efficiently and safely.

The application of deduction:

A deduction shall be incurred where each user training scheduled for the month is not conducted. A deduction shall also be incurred each month if a training scheduled not been prepared.

2.5.6 Key Indicators (Testing & Commissioning)

New installations are required to be tested and commissioning before it is put into service. This ensures that the installations are functioning according to the specifications and it is safe to be used.

The application of deduction:

A deduction is to be applied to the contractor if the witnessing and verifications of the Testing and Commissioning of the new equipment is not completed.

2.5.7 Key Indicators (Technical Advice)

All technical advice sought by Hospital Director is to be provided in a timely manner. This will ensure the hospital will have the necessary advice and support from the contractor to make any technical decision. Condition appraisal for minor or reimbursable work is also considered as the technical advice.

The application of deduction:

A deduction will be applied when technical advice sought is not supplied. A complaint should be registered when advice is not provided in the agreed time limit. The advice given must be writing or verbal.

2.5.8 Key Indicators (Response Time)

The contractor is required to respond to service request to minimize the time the equipment is not available for use.

The application of deduction:

A deduction is to be applied to the Contractor if the response time is in excess of 30 minutes for critical calls and 3 hours for non critical calls. The response time is to be signed off on the works request by the user.

2.5.9 Key Indicators (Report)

A number of reports are required to be submitted so that verification of work done can be achieved.

The application of deduction:

A deduction shall be incurred for each report not be available for the month as required. The reports are required to be readily available. Data in hard copy also be presented in the legible preferably typed manner. Reports are to be submitted to the Hospital Director.

2.5.10 Key muicators (Correct Data)

Sampled data from all resources to be examined to ensure all data are correct. Data is required to be accurate at all times.

The application of deduction:

A deduction shall be incurred if any inaccurate or incorrect data is identified. The indicator shall be applied to hard copy records as well as data recorded by Central Management Information System (CMIS).

2.5.11 Key Indicators (Work Request)

The contractor is required to complete the repairs in the agreed time unless exempted by the Hospital Director.

The application of deduction:

The deduction will be applied for any work request not complete within the agreed time. One deduction will apply for each month the service request has not been closed. In the first month the time period of 15 days is provided to close the service request. In subsequent months a deduction will be apply immediately. Deduction will not be applied if the contractor can prove exceptional sequences such as force majeure. A deduction will be apply to this indicator even if loaner equipment is provided. Deduction will not be apply to reimbursable work.

2.6 COMPLAINT FORMS / EXAMPLES OF HARD COPY FOR WORK ORDER CLOSED

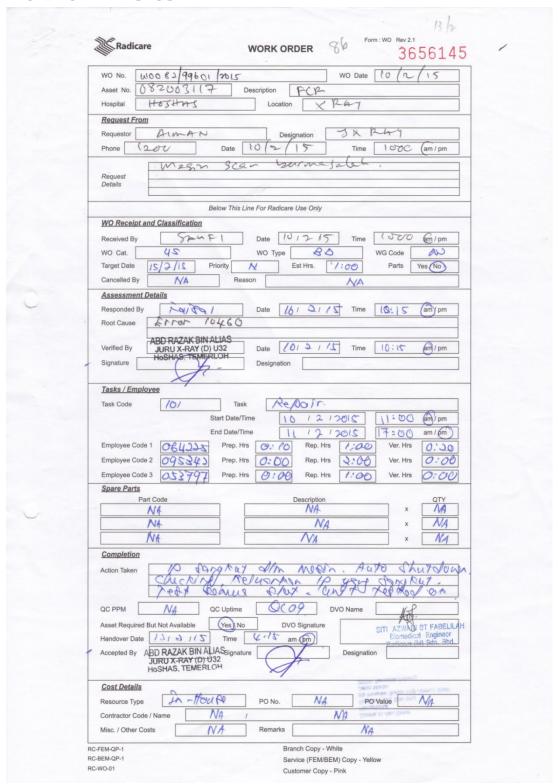


PHOTO 2.6.1 Branch Copy

	Radicare WORK ORDER Form; WO Rev 2.1
1 **	Radicare WORK ORDER 3656145
	Two was tracked to the tree
	WO No. 1100 82 99401 2010 WO Date 10 12 115
	Asset No. 082003117 Description
	Hospital Hospital Location X 7 4 7
	Request From
	Requestor Designation Designation
	Phone 200 Date 10/2/15 Time 1000 (am/pm
	Mason Scar burneralet.
	Request
	Below This Line For Radicare Use Only
	WO Receipt and Classification
	Received By Sant Date 10/2/5 Time 1000 am/pm
	WO Cat. US WO Type & WG Code W
	Target Date 15/2/11 Priority R Est Hrs. 1:00 Parts Yes No
	Cancelled By //A Reason //A
0	Assessment Details
0	Responded By PAISA Date 16/0/5 Time 0:15 (am) pm
	Root Cause From 10460
	ADD DATAK DINI ALIAS
	Verified By ABD RAZAK BIN ALIAS Date / 0 / 2 / / Time 10 Ht am/pm
	Signature HoSHAS, TEMERLOH Designation
	A
	Tasks / Employee
	Task Code /O/ Task Re No / r
	Start Date/Time 16 / 2 / 701C 11 00 my pm
	Employee Code 1 OC (1) Prep. Hrs O CO Rep. Hrs (1) OC Ver. Hrs
	0.50
	Employee Code 2 09 S 24 Prep. Hrs 0:00 Rep. Hrs 0:00 Ver. Hrs 0:00
	Employee Code 3 053797 Prep. Hrs 0:00 Rep. Hrs 1:00 Ver. Hrs 0:00
	Spare Parts Part Code Description QTY
0	NA NA × NA
	NA NA X NA
	NA VA × NA
	Completion
	Action Taken 10 sarget by Alm Mosto. Auto Chuydun
	Checking, Relysome 19 year showful.
	THEY COMUSE WAY - CINY TO TERMOND OF
	QC PPM QC Uptime QC 09 DVO Name
	Asset Required But Not Available Yes No DVO Signature SITI AZWARI ET FABELILAI-
	Handover Date 7-17 to 17 1 time 27 2 am / pm / 1 clampfied challed
	Accepted By JURUX-RAY (D) US2 Signature Designation
	HoSHAS, TEMERLOH
	Cost Details
	Resource Type In HOUSE PO No. NA PO Value NA
	Contractor Code / Name NA / NA
	Misc. / Other Costs NA Remarks NA
	RC-FEM-QP-1 Branch Copy - White RC-BEM-QP-1 Service (FEM/BEM) Copy - Yellow
	RC-W0-01 Customer Copy - Pink

PHOTO 2.6.2 Service (BEMS/FEMS) Copy

Radicare	COMPLAINT FOR 379255
Hospital	$\frac{10000}{080/2015/000000000000000000000000000000000$
Auto No.	. 082/2015/02/0026/8 User Department: X- Rey
User Location	Hostras Date 1000 Time : 1000
Name of Complainant	
	Facility Engineering 3 Clinical Waste Services 5 Cleansing Services
Service Involved	2 Biomedical Engineering 4 Linen Services 6 Others
(Please ✓) Complaint Details:	mein scan bernesach. Ref Doc No.: 3656145
Complaint Details.	mein sean bernesa en Ref Doc No.: 363 6745
Asset No	:082003117
Work Order No	: WOO82/99601/2015
	GING (By Radicare Help Desk)
Received By	: Smfl Date: 10(2/15 Time: 1000
Mode Of Complaint	: 1 MOH 3 MIS
(Please ✔)	2 SIHAT
Severity	: 1 Very Critical 2 Critical -8 Less Critical
Complaint Status :	Valid Not Valid Specify reason: 1 st w. anglet.
Action Taken : P P	
Complaint Type Corrective Action Nee	eded: Yes No Specify reason: No
Complaint Type Corrective Action Nee Name : VERIFICATION	eded: Yes No Specify reason: Mo
Complaint Type Corrective Action Nee Name : VERIFICATION Remarks: MA	ant : ABD RAZAR SINALIAS Verified by Radicare: JURE X FAY (D) U32 HOSH AS PRIMARICOH NO Specify reason: MO Date: 13 - 3 - 15 Time: 4- 15 MAZLAS GRADUS HONOOR
Complaint Type Corrective Action Nee Name : VERIFICATION	ant : ABD RAZATABINALIAS Verified by Radicare: ABD RAZATABINALIAS Verified by Radicare: HOSHASGIRAMERICOH Service MAZLASGIRAMERICOH Service S
Complaint Type Corrective Action Nee Name: VERIFICATION Remarks: MA Verified by Complaina	ant : ABD RAXAR (I) US2 HoSHASSITEMER LOH Specify reason : Mo Date : 13 - 3 - 15 Time : 4 - 15 No No Service MAZLAS GRAVES ID NOOR Act. Manager of stripped control
Complaint Type Corrective Action Nee Name: VERIFICATION Remarks: Werified by Complaina Date Time	ant : ABD RAZARONALIAS User Index ABD RAZARONALIAS HOSHASIGNALIAS Service Service Act. Manager & Index Centre in the Service Service Radious in the Service Radi
Complaint Type Corrective Action Nee Name: VERIFICATION Remarks: Werified by Complaina Date	ant : ABD RAZAREINALIAS Urified by Radicare: ABD RAZAREINALIAS Verified by Radicare: MAZLAS gradue Date MAZLAS gradue Date MAZLAS gradue Date Date Conty)
Complaint Type Corrective Action Nee Name: VERIFICATION Remarks: Werified by Complaina Date Time (Deduction Purpose Complaina)	ant : ABD RAZAR BIN ALIAS User Index Book Service Service Date : 12 - 2 - 15 Date : 15
Complaint Type Corrective Action Nee Name: VERIFICATION Remarks: MP Verified by Complaina Date Time (Deduction Purpose Complaina INDICATOR MAPP)	ant : ABD RAZAR BIN ALIAS User Index Book Service Service Date : 12 - 2 - 15 Date : 15

PHOTO 2.6.3 Complaint Form

Hir	e COMPLAINT FOR 379255
Hospital	: + + + + + + + + + + + + + + + + + + +
Auto No.	User Department: X- Ray.
User Location	Contact No.
Name of Complainar	1 OSILION
Service Involved	Facility Engineering 3 Clinical Waste Services 5 Cleansing Services
(Please ✔)	2 Biomedical Engineering 4 Linen Services 6 Others
Complaint Details:	meen scan bernesalet. Ref Doc No.: 3656145
Asset No	:082003117
Work Order No	: woos2199601/2015
COMPLAINT LOG Received By	GGING (By Radicare Help Desk) Date:
Mode Of Complaint	
(Please ✔)	2 SIHAT
Severity	: 1 Very Critical 2 Critical 8 Less Critical
Action Tokon : 10	Printered discussion to the detailed of the bound to be a controlled
Root Cause Code (if Complaint Type Corrective Action Ne	eeded: Yes No Specify reason:
Root Cause Code (if Complaint Type Corrective Action Ne	if any): My : ID seded: Yes No Specify reason:
Root Cause Code (if Complaint Type Corrective Action Ne	fany): M : DD seded: Yes No Specify reason:
Root Cause Code (if Complaint Type Corrective Action Ne	fany): M : DD seded: Yes No Specify reason:
Root Cause Code (if Complaint Type Corrective Action Ne Name : VERIFICATION	rany): At Select State S
Root Cause Code (if Complaint Type Corrective Action Ne Name : VERIFICATION Remarks:	any): Att Selicion Stot. Unit Actical Ob. if any): Att : No Specify reason: Signature : Date : Time : Date : Dat
Root Cause Code (if Complaint Type Corrective Action Ne Name : VERIFICATION Remarks: Verified by Complain	rany): At Select State S
Root Cause Code (if Complaint Type Corrective Action Ne Name : VERIFICATION Remarks: Verified by Complain Date	rany): At : ID seded: Yes No Specify reason: No Specify reason: Date: Time: Date: Time: ABD RAZAK BIN ALIAS (action taken by) ABD RAZAK BIN ALIAS Service Service Radicare: Radicare (M) Standard: Specify For the control of the cont
Root Cause Code (if Complaint Type Corrective Action Ne Name : VERIFICATION Remarks: Verified by Complain Date Time	rany): At select state state of the state of
Root Cause Code (if Complaint Type Corrective Action Ne Name : VERIFICATION Remarks: Verified by Complain Date Time (Deduction Purpose	rany): At : DD : No Specify reason: ABD RAZAK BIN ALIAS JURU X-RAY (D) USZ Hosh Signature Fillon Service Radicure (M) Sun und
Root Cause Code (if Complaint Type Corrective Action Ne Name : VERIFICATION Remarks: Verified by Complain Date Time (Deduction Purpose INDICATOR MAP DEMERIT POINTS	rany): At : DD : No Specify reason: ABD RAZAK BIN ALIAS Verified by Radicare: MAZLAN BIN MOHD NOC Act. Magnature sprice Ceres No Signature Date Time Date

PHOTO 2.6.4 Service Copy

2.7 BUILDING CONDITION ASSESSMENT

2.7.1 CODING SYSTEM

In order to make client to be at ease and be able to understand clearly our report, we have developed coding system. In addition, we also provided the coding description in order as shown in table 1, 2 and 3 below.

ELEMENT CODING DESCRIPTION

Element	Code
Drainage and its cover	DRC
Apron	APR
Wall	WLL
Door	DOO
Ceiling	CLG
Landscape	LC

Table 1 Element coding description

2.7.2 DEFECT CODING DESCRIPTION

Defect	Code
Fungus / moss	FM
Stain	ST
Dusty	DS
Break / detached	BR
Flaking	FL
Dampness	DA
Decayed	DC

Table 2 Defect coding description

2.7.3 BARIS ASSESSMENT

		PRIORITY ASSESSMENT			
SCALE		E4	U3	R2	N1
	5	5	15	10	5
CONDITION	4	4	12	8	4
ASSESSMENT	3	3	9	6	3
	2	2	6	4	2
	1	1	3	2	1
		- 1	•	4	1
NO	MATRIX	SCORE			
1	Plan Maintenance	1 to 4			
2	Condition Monitoring	5 to 12			
3	Serious Attention	13 to 20			
OVERALL BUILDI	NG RATING	·		1	Į.
No	Building Rating	Score			
1	Good	1 to 4			
2	Fair	5 to 12			
3	Dilapidated	13 to 20			
CONDITION ASSE	SSMENT	- 1	•	4	1
CONDITION	SCALE VALUE	DESCRIPTION (VALUE)			
1	News/As New	Minor Servicing			
2	Fair	Minor Repair			
3	Poor	Major Repair / Replacement			
4	Very Poor	Malfunction			
5	Dilapidated	Damage / Missing			
PRIORITY ASSESS	SMENT		1	1	-1
PRIORITY	SCALE VALUE	DESCRIPT	ION (VALUE)		
Normal	1	Functional, only cosmetic defect			
Routine	2	Minor defect, but can lead to serious	defect if left una	attended	
Urgent	3	Serious defect, cannot function to an	acceptable stand	lard	
Emergency	4	Element/structure not function at all;	OR		
		Risks that can lead to fatality and/or is	njury		

2.8 BUILDING DEFECTS

Defect Sheet No.	Level		Third floor		
LC/FM/001/ADM					
	Location	In-fron	t of Administra	ition	
	Element Landscape				
	Component		Plant		
	BUILDING ASSESS	SMENT RATII	NG SYSTEM	(BARIS)	
	Condition	Priority	Matrix	Color	
	2	2	4	green	
	Defect Description				
	Fungus spre	ead at trees and c	auses infection	L	
		Cause of defec	et		
	-the lack of cleaning se	ervice for landsca	ape		
	-the temperature and humidity not suitable at the area				
		Remedies			
	Make sure to v	vater the tree dai	ly and clean th	e fungus at	
	the tree			-	
	2. Rescheduled to	he Plan Prevent	tive Maintenar	nce for the	
	hospitals landscape.				

Defect Sheet No.	Level		Third floor			
WD/DS/002/NICU						
	Location Route to Neonatal Intensive Care U					
			(NICU)			
86-02	Element		Window			
nziens prin co	Component	Frame				
	BUILDING AS	ASSESSMENT RATING SYSTEM				
		(BARIS)				
	Condition	Priority Matrix Cole				
	2	1	2	green		
	Defect Description					
	The window was dusty					
		Cause of defe	ect			
	-the cleansing service	not done their v	vork properly.			
	Remedies					
	Clean the window using the water and detergents.					
	2. Make sure it be clean by daily.					

Defect Sheet No.	Level	Second Floor				
CLG/DA/003/PHR						
The state of the s	Location	Staircase	in- front of Pha	ırmacy		
	Element	Ceiling				
Os/deledirs in is me	Component	(Ceiling panel			
	BUILDING ASS	SSESSMENT RATING SYSTEM				
		(BARIS)				
	Condition	Priority	Matrix	Color		
	2	1	2	green		
	Defect Description					
	Fungus at the ceiling					
	Cause of defect					
	The temperature at the	stair too				
		Remedies				
	1. Find the same find the same color of paint.					
	2. be sure to we	ear proper clot	thing and equi	pment for		
	coating					
	3. Paint with pain	t undercoat in a	advance			
	4. After dried, rep	painting with th	e original paint	color		
	5. Clean the work					

Defect Sheet No.	Level		Third floor			
CLG/FM/004/SD						
	Location	Routes to	Catering and D	ietetics		
			Department			
	Element Ceiling					
15/20/30						
WE 2015 11:18	Component	(Ceiling panel			
¥ 4						
	BUILDING ASSES	SSMENT RATI	NG SYSTEM	(BARIS)		
	Condition	Priority	Matrix	Color		
	3	2	6	yellow		
		Defect Description				
		Defect Description				
	Fungus on ceiling. Cause of defect					
		Cause of defec	Jl			
	The ducting inside the	ceiling panel is l	eaking.			
		Remedies				
	1. Open the ceili	ng panel to know	what ducting i	s leaking.		
	2. Repair the due	_				
	3. change the gy	_				
		are straight with				
	•	vide adequate nai	iling surface at	adjoining		
	walls.			.•		
		trical outlets, heat	-	so they		
		with the wallboard		ioists To		
		gypsum board at a pard's weight, use				
		_	•	oracc.		
		Nail or screw boards to the joists. Clean the place.				

Defect Sheet No.		Level		First floor		
CLG/FM/005/FD						
	I	Location Route to Forensic Departme				
	I	Element	Ceiling			
	Co	omponent	Ceiling panel ESSMENT RATING SYSTEM (BARI			
	BUILI	DING ASSES				
	C	ondition	Priority	Matrix	Color	
		2	1	2	green	
			Defect Description			
	Fungus on ceiling.					
	Cause of defect					
	The due	cting inside th	e ceiling panel is	leaking.		
			Remedies			
	1.	Open the ceil	ling panel to know	w what ducting	is leaking.	
	2.	Repair the du			C	
	3.	Change the g	ypsum board.			
	4.	Be sure studs	s are straight with	double studs a	t inside	
		corners to prowalls.	ovide adequate na	iling surface at	t adjoining	
	5.		ctrical outlets, hea	ting ducts, etc.	, so they	
		•	with the wallboar	-	•	
	6.	Applying the	gypsum board at	right angles to	joists. To	
		support the b	oard's weight, use	a temporary T	-brace.	
	7.	Nail or screw	boards to the jois	sts.		
	8.	Clean the pla	ice.			

Defect Sheet No.	Level	First floor				
DOO/BR/006/FD						
	Location	Route to	Forensic Depa	rtment		
war 131	Element		Door			
	Component Door panel					
	BUILDING ASS	SESSMENT F	RATING SYS	TEM		
		(BARIS)				
	Condition	Priority	Matrix	Color		
	3	2	6	yellow		
	I	Defect Description				
	The door was decayed					
		Cause of defe	ct			
	Γ	Daily use / life s	pan			
		Remedies				
	1. Identify the typ	pe of door and p	ourchase new o	loor.		
	2. Make sure the	door panel suit	able with the e	xisting		
	frame.					
	3. Install new doo	or panel				
	4. Clean the work	xplace.				

Defect Sheet No.	Level	Second Floor				
WLL/ST/007/SD						
	Location		Catering and D Department	Dietetics		
	Element		Wall			
MB 55:11 2105\50\a0	Component		Paint			
	BUILDING ASSESSMENT RATING SYSTE			(BARIS)		
	Condition	Priority Matrix C				
	3	3	9	yellow		
		Defect Description				
	,	The wall was sta	nin.			
		Cause of defec	et			
	The wall was exposed to hot and humid weather.					
		Remedies				
	1. Clean the wall b	by water or water	er jet.			
	2. Repaint the co	lumn with a pr	rimer that's de	esigned to		
	act as a vapor	barrier.				
	3. Apply a standa	ard finish coat.				
	4. Let the wall and siding dry out for a couple of					
	months during warm weather before prepping and					
	repainting the	siding.				

Defect Sheet No. CLG/FM/008/CF		Level	Second Floor		
	Lo	ocation	F	Route to Cafe	
	Е	lement		Ceiling	
	Con	mponent	(Ceiling panel	
	BUILD	ING ASSES	SMENT RATI	NG SYSTEM	(BARIS)
	Co	ondition	Priority	Matrix	Color
		3	2	6	yellow
	Defect Description				I
	Leaking	on ceiling and	fungus.		
	Cause of defect				
	The pipe inside the ceiling was leak				
			Remedies		
	1. (Open the ceilir	ng panel to know	what ducting is	s leaking.
		Repair the duc			
		Change the gy			
			are straight with		
		corners to prov walls.	vide adequate na	iling surface at	adjoining
		•	rical outlets, hear		so they
			sum board at rig		ts. To
			ard's weight, use		
			ooards to the jois		
	8. (Clean the place	e.		

Defect Sheet No.	Level	S	eventh Floor			
CLG/DA/009/WK11						
	Location	Wad Kenanga 11 (near the entrance				
	Element		Ceiling			
RE-II SIBENION	Component	(Ceiling panel			
	BUILDING ASSESS	SMENT RATI	NG SYSTEM	(BARIS)		
	Condition	Priority	Matrix	Color		
	3	2	6	yellow		
		Defect Description				
	Dampness around sprinkler.					
	Cause of defect					
	The pipe	e inside the ceiling	ng was leak			
		Remedies				
	1. Change the gyp	psum board.				
	2. Be sure studs a	re straight with	double studs at	inside		
	_	ride adequate na	iling surface at	adjoining		
	walls.	iool outlata hoo	tina duata ata	as there		
		rical outlets, hear tith the wallboar		so mey		
		sum board at rig		ete To		
		ard's weight, use				
		ooards to the jois		orace.		
	6. Clean the place	•				

Defect Sheet No.	Level	S	Seventh Floor		
CLG/DA/010/WK11	Location	W	ad Kenanga 11		
	Element Ceiling				
E					
770 S. THE REAL PROPERTY OF THE PROPERTY OF TH	Component		Ceiling panel		
E REST	BUILDING ASSESS	SSMENT RATING SYSTEM (BARI			
	Condition	Priority	Color		
	3	2	6	yellow	
स्व अंगायनीमा । (1) महेर्यन विद्या	Defect Description				
	Dampness on ceiling panel. Cause of defect				
	Condensation (causes	because when t	he air conditior	ning is on.	
		window is also o		<i>5</i>	
		Remedies			
	1. Change the gyp	osum board.			
	2. Be sure studs a	re straight with	double studs at	inside	
	corners to prov walls.	ide adequate nai	lling surface at	adjoining	
		ical outlets, heat	ing ducts, etc.,	so they	
	will be flush w	ith the wallboard	d surface.		
	4. Apply the gyps	sum board at righ	nt angles to jois	sts. To	
	support the board's weight, use a temporary T-brace.				
		ooards to the jois	ts.		
	6. Clean the place	.			

Defect Sheet No.	Level	Seventh Floor			
CLG/FM/011/WK11					
	Location	Wa	ad Kenanga 11		
	Element Ceiling				
	Component	(Ceiling panel		
	BUILDING ASSESS	SMENT RATI	NG SYSTEM	(BARIS)	
	Condition	Priority	Matrix	Color	
	3	2	6	yellow	
	Defect Description				
	Fungus at the ceiling panel.				
	Cause of defect				
	There was a leaking pipe inside the ceiling.				
		Remedies			
	1. Open the ceilin	g panel to know	what ducting is	s leaking.	
	2. Repair the duct	•			
	3. Change the gyp				
	4. Be sure studs as	•			
	walls.	ide adequate nai	iing surface at a	adjoining	
	5. Align all electri	ical outlets, heat	ing ducts, etc.,	so thev	
		th the wallboard		J	
	6. Apply the gyps	gypsum board at right angles to joists. To			
	support the boa	rd's weight, use	a temporary T-	brace.	
	7. Nail or screw b	ew boards to the joists.			
	8. Clean the place	8. Clean the place.			

Defect Sheet No.	Level Seventh Floor				
WLL/ST/012/WK11					
	Location	Wad Kenang	ga 11 (the mid	dle route)	
	Element		Wall		
23/01/2015 12:ND PM	Component	Fi	nishes (paint)		
	BUILDING AS	ASSESSMENT RATING SYSTEM			
	(BARIS)				
	Condition	Priority	Matrix	Color	
	3	3	9	yellow	
23/01/2015 12:42 PM	Defect Description				
	The wall was stain.				
	Cause of defect				
	The wall not washed by correct cleaning agents.				
		Remedies			
	1. Rinse the	e wall with the so	olution of 1 cu	p of bleach	
	to 1 gallo	on of water to pre	event mold and	l mildew	
	from gro	wing.			
	2. Let the wall dry after the cleaning works.				

Defect Sheet No.	Level	S	Seventh Floor	
CLG/FL/013/WK10				
17	Location	W	ad Kenanga 10	
To the second	Element		Ceiling	
3.027007E	Component Ceiling panel			
⊕ 28	BUILDING	G ASSESSMENT RATING SYSTEM		
	(BARIS)			
	Condition	n Priority Matrix		Color
	3	2	6	yellow
		Defect Description		
		The ceiling w	as flaking.	
		Cause of	defect	
	The use of lo	ow quality paint	t, resulting in in	adequate
		adhesion and	flexibility.	
		Remed	lies	
	1. Remove the flaking paint with a scraper or			scraper or
	wire brush.			
	2. Sand the area to feather the edges and			s and
	prime any bare sports.			
	3. Repaint the surface.			

Defect Sheet No.	Level	S	Seventh Floor	
CLG/FM/014/WK10				
	Location	Wa	ad Kenanga 10	1
	Element		Ceiling	
Person Property of the Propert	Component Ceiling panel			
	BUILDING	LDING ASSESSMENT RATING SYST		
	(BARIS)			
	Condition	Condition Priority Ma		Color
	3	2	6	yellow
		Defect Des	l cription	
		Fungus on cei	ling panel.	
		Cause of	defect	
	The wall r	not washed by co	orrect cleaning	agents.
	Remedies			
	1. C1	lean the fungus	with 1 cup of b	bleach and 1
	ga	llon of water.		
	2. Re	epaint the ceilin	g.	

Defect Sheet No.	Level	S	Seventh Floor			
CLG/DA/015/WK10						
	Location	Wad Kenanga 10				
	Element	Ceiling				
GE/02/2015 12:51 PM	Component	Ceiling panel				
	BUILDING ASSESSMENT RATING SYSTEM (BARIS)					
	Condition	Priority	Matrix	Color		
	3	2	6	yellow		
		Defect Descrip	Defect Description			
	There has a hole on ceiling.					
	Cause of defect					
	The ducting inside the ceiling was leaking and causes the					
		pness on ceiling				
	Remedies					
	Change the gypsum board.					
	2. Be sure studs as	re straight with	double studs at	inside		
	corners to provi	ide adequate na	iling surface at	adjoining		
	3. Align all electrical outlets, heating ducts, etc., so they					
	will be flush with the wallboard surface.					
	4. Apply the gypsum board at right angles to joists. To					
	support the board's weight, use a temporary T-brace. 5. Nail or screw boards to the joists.					
	6. Clean the place	•				

Defect Sheet No.	Level		First floor		
DRC/BR/016/CR					
	Location Chiller Room				
	Element		Drainage		
DE/RE/2015 2:21 PM	Component		drain cover		
	BUILDING ASSESSMENT RATING SYSTEM (BARIS)				
USFREZZOUS 12:28 PM	Condition	Priority	Matrix	Color	
	3	3	9	yellow	
		Defect Descripti	ion		
	The	drain cover was	broke.		
		Cause of defea	et		
	Exposed of hot and humid temperature.				
	Remedies				
	1. Take out the	he broken drain	cover.		
	2. Measure th	heir size.			
	3. Order the drain cover form the supplier.				

Defect Sheet No. DOO/DC/017/CR	Level	S	Second Floor			
	Location	(Chiller Room			
	Element		Door			
do 2215 25 PM	Component	Door panel				
	BUILDING AS	ILDING ASSESSMENT RATING SYSTEM				
	(BARIS)					
	Condition	Priority Matrix		Color		
	3	2	6	yellow		
	3	2	0	yenow		
	Defect Description					
	The door was decayed					
	Cause of defect					
		Daily use				
	Remedies					
	1. Identify the typ	pe of door and p	ourchase new d	loor.		
	2. Make sure the	door panel suita	able with the e	xisting		
	frame.					
	3. Install new doo	or panel				
	4. Clean the workplace.					

Defect Sheet No.	Level	Second Floor			
DRC/BR/018/AE					
	Location	Route to A	ccident & Emergency		
	Departmen			ıt	
	Element		Drainage		
CAUSTON USAF SE	Component		Apron		
	BUILDING ASSESS	SMENT RATI	NG SYSTEM	I (BARIS)	
	Condition	Priority	Matrix	Color	
	3	2	6	yellow	
	Defect Description				
	The apron was cracked and broken.				
	Cause of defect				
	The settlement of soil.				
	Remedies				
	1. Broke the	whole apron.			
	2. Make sure the soil is stable.				
	3. Lay back the cement to build the apron.				

Defect Sheet No.	Level	;	Second Floor	
CLG/FM/019/AU				
	Location	Rou	te to Auditoriur	n
	Element	Ceiling		
05/15/25/05 00 (S) HH	Component	Ceiling panel		
	BUILDING	S ASSESSMEN	NT RATING S	YSTEM
		(BAR	IS)	
	Condition	Priority	Matrix	Color
	3	2	6	yellow
		Defect Description The ceilings have fungus. Cause of defect		
		The rain water	was runoff.	
		Remed	lies	
	1. Change	the gypsum boa	rd.	
	2. Be sure	studs are straigh	nt with double st	tuds at
	inside co	orners to provide	e adequate naili	ng surface
	at adjoir	ning walls.		
		l electrical outle	_	
		l be flush with the		
		he gypsum board		-
	brace.	ort the board's w	vergiii, use a ten	прогагу 1-
		screw boards to	the joists.	
		the place.		

Defect Sheet No.	Level	S	Second Floor		
DOO/BR/020/AE					
	Location	Doctor ro	oom at Accide	nt and	
Town or the second		gency Departm	Department		
	Element		Ceiling		
06/02/2015 01:04 PM	Component		Ceiling panel		
	Component		cining paner		
	BUILDING AS	SSESSMENT 1	RATING SY	STEM	
		(BARIS)			
	Condition	Priority	Matrix	Color	
-4-	2	2	4	yellow	
06/02/2015 01:05 PM					
	Defect Description				
	The door lock was broken.				
		Cause of defe	ect		
		Cuase of dete			
	The door is locked a	and concession of	company brok	e the door.	
		Remedies			
	Determine th	ne brand or type	of old door lo	als sat (ta	
		o modifications			
	the door).	o modifications	will have to b	e made to	
	ĺ	size of doorkno	b.		
	3. Remove the	old door lock se	et.		
	4. Install the lat	4. Install the latch.			
	5. Install the ne	new lock set (make sure the keyed section			
	is on the outs	utside)			
		operation and	the locking me	echanism	
	with the key.	with the key.			

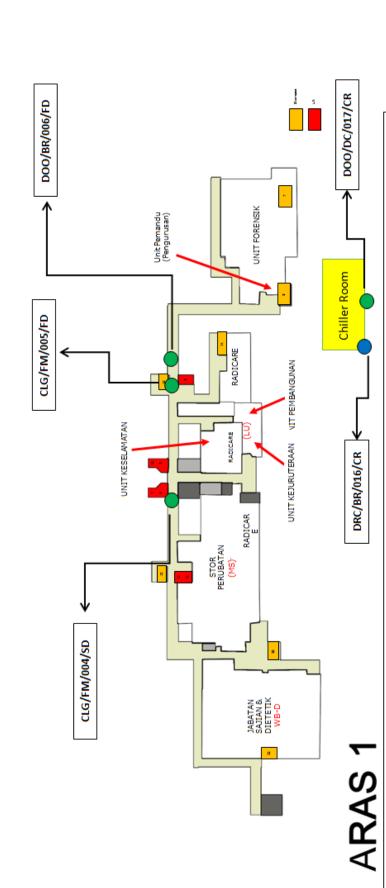
2.9 BUILDING ASSESSMENT RATING SYSTEM (BARIS)

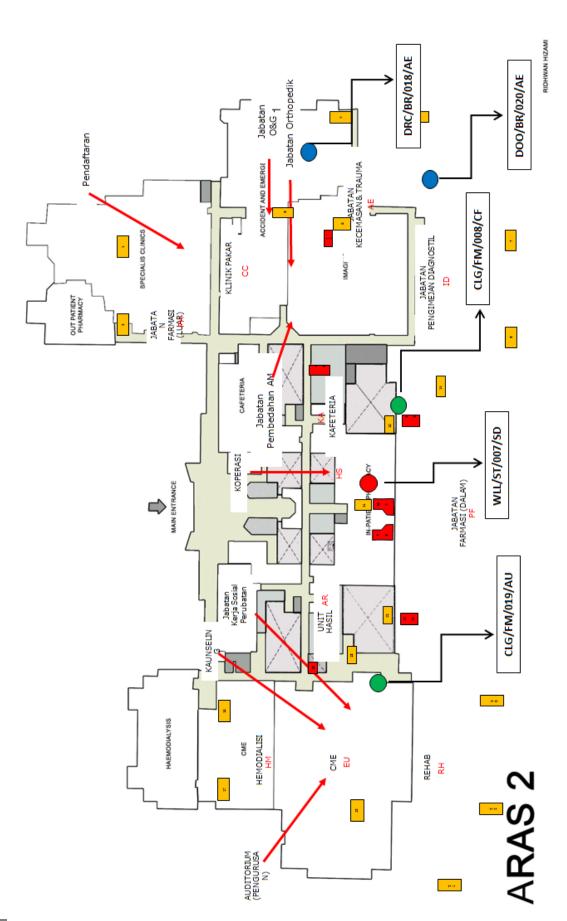
BUIL	BUILDING ASSESSMENT RATING SYSTEM (BARIS) FOR HOSPITAL SULTAN HAJI							
	AHMAD SHAH, TEMERLOH							
	Schedule of Building Condition (SBC)							
Sheet	Defects	BARIS						
No.		Condition	Priority	Matrix	Defect Indication Plan			
		Assessment	Assessment	Analysis				
		[a]	[b]	[c] = (a x				
				b)				
1	Fungus	2	2	4	LC/FM/001/ADM			
2	Dusty	2	1	2	WD/DS/002/NICU			
3	Fungus	2	1	2	CLG/FM/003/PHR			
4	Fungus	3	2	6	CLG/FM/004/SD			
5	Fungus	2	1	2	CLG/FM/005/FD			
6	Decayed	3	2	6	DOO/BR/006/FD			
7	Stain	3	3	9	WLL/ST/007/SD			
8	Leaking on	3	2	6	CLG/FM/008/CF			
	ceiling and							
	fungus							
9	Dampness around sprinkler	3	2	6	CLG/FM/009/WK11			
10	Dampness	3	2	6	CLG/DA/010/WK11			

BUI	LDING ASSESSME				OSPITAL SULTAN HAJI						
		AHMAD	SHAH, TEM	ERLOH							
		Schedule of	Building Cond	lition (SBC)							
Sheet	Defects	BARIS									
No.		Condition	Priority	Matrix	Defect Indication Plan						
		Assessment	Assessment	Analysis							
		[a]	[b]	[c] = (a x)							
				b)							
11	Dampness and	3	2	6	CLG/FM/011/WK11						
	fungus at the										
	ceiling panel.										
12	Stain	3	3	9	WLL/ST/012/WK11						
13	Flaking.	3	2	6	CLG/FL/013/WK10						
14	Fungus	3	2	6	CLG/FM/014/WK10						
15	Hole on	3	3	9	CLG/DA/015/WK10						
	Ceiling										
16	Broke	3	3	9	DRC/BR/016/CR						
17	Decayed	3	2	6	DOO/DC/017/CR						
18	Broken	3	2	6	DRC/BR/018/AE						
19	Fungus	3	2	6	CLG/FM/019/AU						
20	Broken	2	2	4	DOO/BR/020/AE						
Total marks (A) = $(\sum of$		124									
c)		124									
Number of Defect (e) Total Score (d/e)		6.2									
						Overall building Rating		FAIR			

2.10 DEFECT INDICATION PLAN

HOSPITAL SULTAN HAJI AHMAD SHAH (HoSHAS)





3

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MAN HIZAM

CLG/DA/003/PHR JABATAN BEDAH MULUT/ DENTAL Jabatan Otolaringologi (ENT) Jabaran Perubatan AM WD/DS/002/NICU DEWAN BERSALIN LABO Jabatan Psikiatrik Unit Rawatan Rapi (Neonat) NICU KLINIK PAKAR SPECIALIST CLINICS 8 LC/FM/001/ADM Unit Teknol<mark>og</mark> Maklumat Unit Sumber Manusia 2 UnitSumberManusia Jabatan Pediatrik Jabatan Oftalmologi Pejabat Pakar 8. Ketua Jabatan Jabatan Rekod Perubata MEDICAL PEJABAT PAKAR SPECIALIST OFFICE Unit Penyeliaan Jururawat/ Unit Penyeliaan Penolong Pegawai Perubatan Unit Pendidikan Pesakit Pentadbiran ADMINISTRATION Unit Perpustakaan LIBRARY Unit Kawaln Infeksi UnitKewangan PUSAT PENDIDIKAN LANJUTAN JABATAN PATOLOGI CME Unit Medical Legal Unit Kualiti PATHOLOGY Y Auditorium

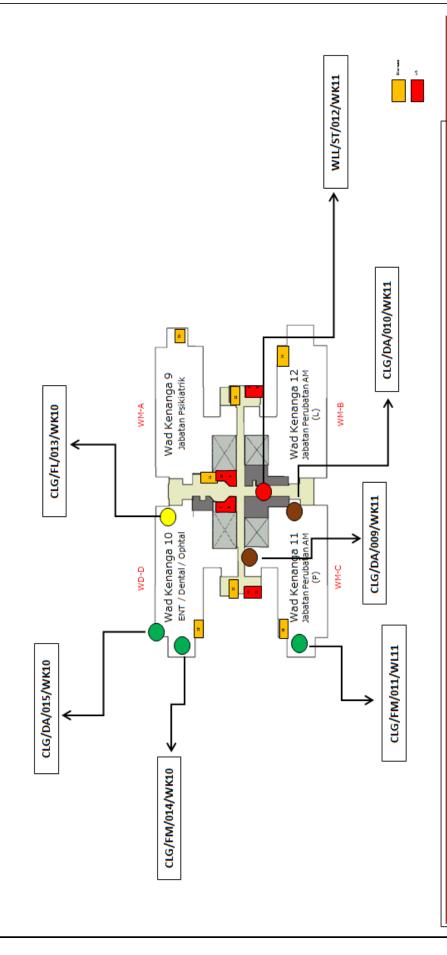
HOSPITAL SULTAN HAJI AHMAD SHAH (HoSHAS)

ARAS 3

UnitLatihan

HOSPITAL SULTAN HAJI AHMAD SHAH (HoSHAS)

ARAS7



2.11 DEFECT ANALYSIS

As the inspection work in this building which is Hospital Sultan Haji Ahmad Shah, it have recorded that there were many kind of types of defects that have found. There were normal defects that have been found there. The example of defects that have been recorded is fungus, dampness, stain/ flaking and decayed. The most found defect is fungus. The causes of fungus in this hospital is condensation, the water drop from the slab, rain water runoff, the air conditioning tray full and the ducting inside the slab leaking.

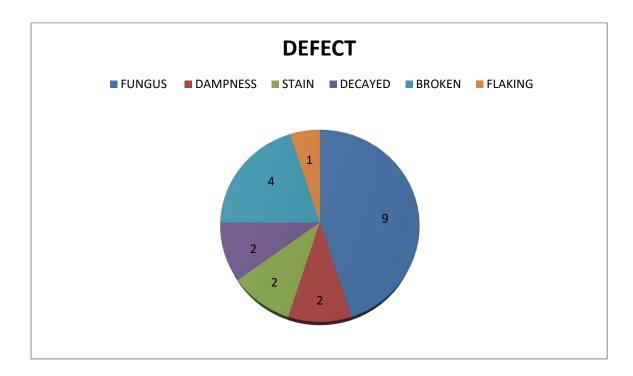


Table 7.1 The defect at Hospital Sultan Haji Ahmad Shah.

CHAPTER 3

PROBLEM AND RECOMMENDATION

PROBLEM AND RECOMMENDATION

As the result for inspecting this building, Hospital Sultan Haji Ahmad Shah, Temerloh, the defect that most found is fungus and the element is ceiling. The total marks of Building Assessment Rating System for Hospital Sultan Haji Ahmad Shah is 6.2 which is fair. It is a number between the ranges of 5-12 which is FAIR in building rating. In the inspection, we have recognized and recorded five (5) types of defects total and the most occur defect type is fungus.

Generally, this building still safe to be occupied but it need time to time maintenance to make sure any possibilities of defect can be avoided. The highest matrix for defect is at the defect sheet WLL/ST/007/SD, WLL/ST/012/WK11, CLG/DA/015/WK10, and DRC/BR/016/CR which is 9 matrix rating. The most defects found is fungus on ceiling.

One of the reason of fungus on ceiling is the sanitary piping was leaking. The method for remedies work is check for signs of leaks in the pipe by looking through each link and end cap. Secondly, the leaking also happen because of the ducting of air conditioning is full. The remedies work for this situation is pump out all the water in sumps and pipe connections by using a vacuum then inspect sumps and the water flow in the exhaust pipe and pipeline blockage wash with vacuum pump. Besides that the fungus occurs because of condensation. The method that can be use is measure temperature and relative humidity levels in the affected areas. Make sure the air conditioning system operates at the level set and repair the cause of the problem. Other than that, the fungus may occur because of water drops from the slab. To repair this situation, we need to injecting Poly Urethane (PU) foam in slab that has water drops.

It is recommendable that concession company (Radicare Sdn .Bhd) must organized schedule for maintenance or make a planned maintenance for this building to keep this building in a good condition for occupies benefaction. They also have to monitor humidity indoors to make sure the fungus not be seperate. The hospital should improve air flow to minimized the area of fungus.

The concession company also have to do the remedies work before the defect become more serious. The hospital need to monitor the work that has done by the concession company. This is important to make sure they do the work and they do the right work for the maintenance job.

For such this case, the concession company (Radicare) should take action for servicing or repairing the defect because if that defect is being left, it may be more serious defect that may damage the building or may shorten the physical life of the building.

As identified, there are lot of defect but the act of remedies taken by the concession company to fix the problem and defect. Moreover, this building is occupied by the workers and patient at one time, so the concession company should take an action to solve or overcome the defects in this building.

It is recommended that the hospitals should monitor strictly for the work that has or have been carried out by the concession company. This to make sure any defect can be overcome before it getting worse. It is also to make sure that the concession companies do their work on time.

CHAPTER 4 CONCLUSION

CONCLUSION

To conclude, there are no structural defect for the Hospital Sultan Haji Ahmad Shah, Temerloh. This building safe to the occupant. The large part of the cost should spent for walls finishes and repairing works such as for ducting and ceiling panel. As the repairing works done, it has the high oppourtunity to achieve commercial advantages.

Besides that, the maintenance has been carried out by the concession company, RadicareSdn Bhd. Their service is include Facility Enginnering Maintenance Services (FEMS), Biomedical Engineering Maintenance Services (BEMS), Clinical Waste Management Services (CWMS), Cleansing Services (CLS) and Linen and Laundry Services (LLS). The hspitals should monitor their work strictly to make sure the operation of the hospitals is going smoothly without any breakdown.

Lastly, the hospitals should take serious action for the growing fungus and dampness on ceiling. They should aim the less fungus and dampness on ceiling to enhance the beautification scenery of this building.

APPENDIX