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Report

College of Micronesia - FSM Space Utilization and Facilities Master Plan Study, Part 3 - Detailed Report for the FSM-FMI Campus

Prepared for the College of Micronesia - FSM

Prepared by Beca International Consultants Ltd (Beca)

28 February 2014



Revision History

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Document Acceptance

	Acceptance		
Action	Name	Signed	Date
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Indicative Asset Renewal and Maintenance Cost Plan

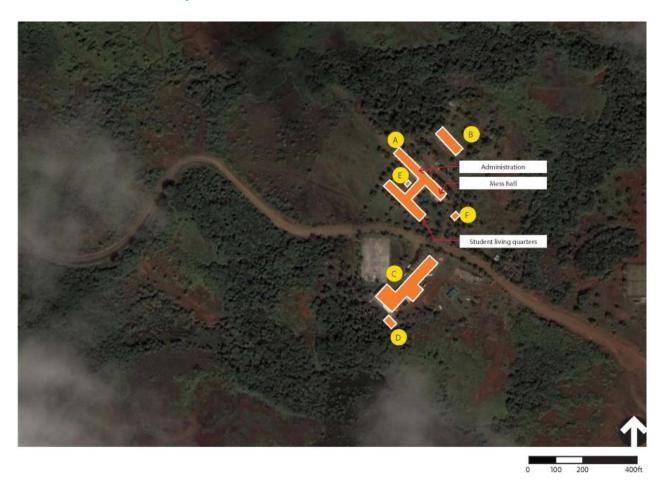
Appendix D

Energy Use Analysis



1 FSM-FMI Campus Development

1.1 FSM-FMI Campus 2013



As outlined in the COM-FSM website "The FSM Fisheries and Marine Institute (FSM-FMI) is located on the island of Yap, occupying the facilities built in the late 1960's for the Loran Station operated by the United States Coast Guard. The Institute is situated some six miles north of the capital, Colonia.

There are three majors offered at FSM-FMI: Navigation, Marine Engineering and Fishing Technology. Currently, these fields of studies or programs normally run for two years, and anyone completing one of them is awarded an Advanced Certificate of Achievement in each of them, and an industry Certificate of Competency as Master of vessels of not over 200 gross tonnage (or Class 5 Master) for a Navigation major; or a Certificate of Competency as Marine Engineer of vessels of not over 500 kilowatts total propulsion power (or Class 5 Marine Engineer) for a Marine Engineering major."



No./	Building Description
А	Administration/Student Services and Living Quarters/Mess Hall
В	Staff housing
С	Classrooms, Library and Shops
D	Maintenance office
Е	Shower House
F	Security Post

1.2 Long Term Vision

The FSM-FMI campus will have facilities to support the following:

- A consolidated campus with its own access road
- An ability to provide courses beyond the three majors that are offered Navigation, Marine Engineering and Fishing Technology. This could be block courses or non-credit courses.
- Wi-Fi capability
- Renewable energy and incorporate sustainability measures
- Buildings that have a reduced maintenance and operational cost through design and selection of materials
- Increased access for women cadets

Key Moves

- 1. Review provision of a stand-alone instructors residence (2 units) in the residential zone
- 2. Move instructors residence out of Building A to enable relocate women's quarters to be relocated into the north – eastern end of the Administration building. Upgrade shower amenities and toilets. Increase the size of the administration area by creating a conference room space
- 3. Provide covered access over classroom doors to Building C, new cadet toilet block next to Seaman's shelter and rationalise location of the access path
- 4. New classroom/ study space with covered access connecting to residential quarters
- 5. Improve shop areas by constructing a stand-alone engineering shop area
- 6. Work with State Government to investigate rerouting the main road to the south of the classroom Building C

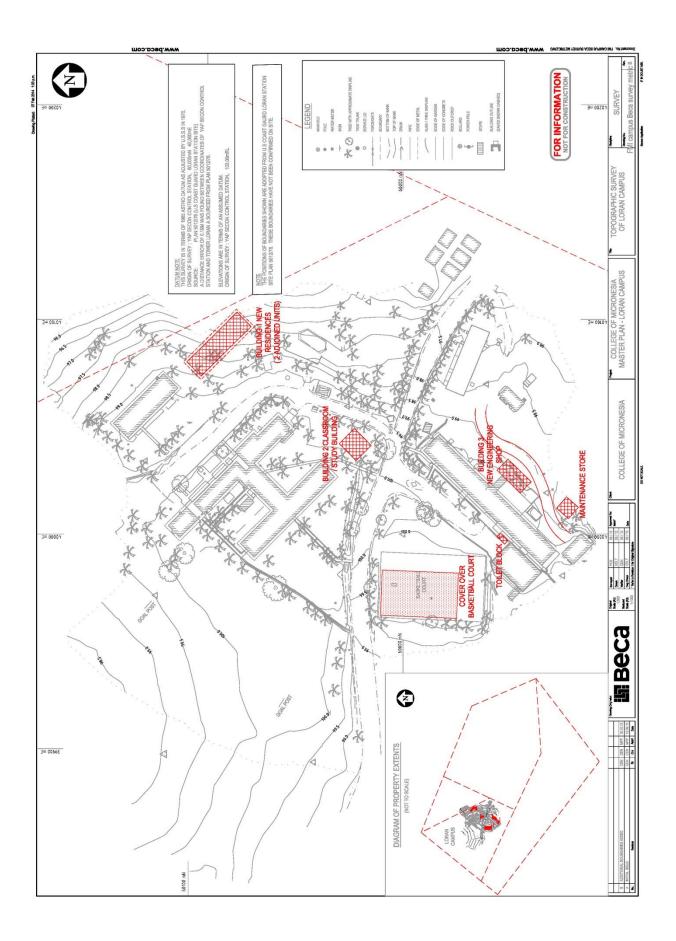




The following plan depicts the proposed layout with the new buildings identified in red. The accommodation schedules listing the functions and areas for the spaces within these buildings are contained in Chapter 3.4.2.

The stages to reach this Long Term Vision are described in the staging plans and the program at the end of this chapter.





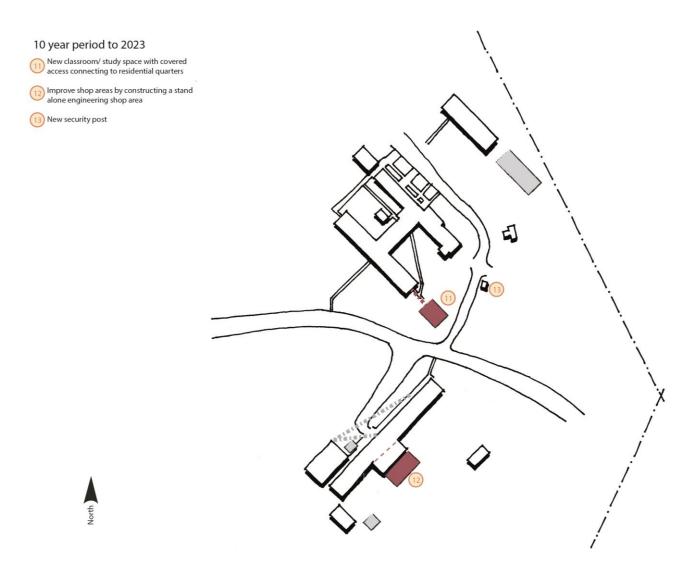


1.3 5 year period - to 2018

5 year period to 2018 01) Address provision of fire fighting facilities 02) New duplex residence for instructors in the Relocate women's quarters into the north eastern end of Administration Building A and add conference room and administration office to area vacated by the residence Remove wall between men's and previous women's quarters. Move men's quarters to the north and utilise the southern quarters as library study space Increase computer room to incorporate former library space in Building C Separate server room from IT office (within existing building envelope) Provide covered access over classroom doors to Building C, new cadet toilet block next to Seaman's shelter and rationalise location of the access path 08 Upgrade below ground services - drainage and water supply Storage for maintenance materials (potentially a container type facility) Address the current sewage system and leaching field Further projects (not in order of priority) - Provide facility for on site water supply - Solar power generation - Works to increase drainage capacity - swales and subsoil drainage - New overhead power connection to

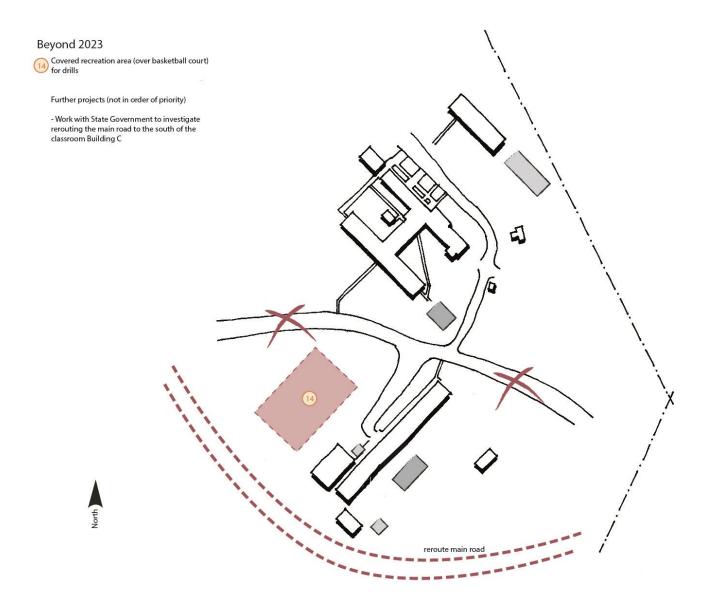


1.4 10 year period - to 2023



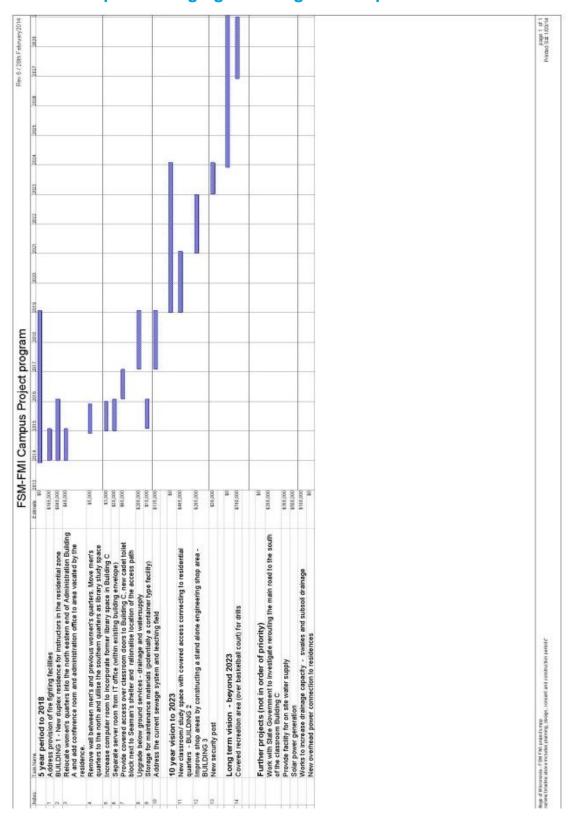


1.5 Long Term Vision - Beyond 2023





1.6 Development Staging and Program – Implementation





2 Educational Component

2.1 Key Considerations

- By the nature of its programs, which tend to be short term and intensive, the FMI Campus is an outlier for utilization analysis (see Table 2.2.1). Its use is episodic, making data unsuitable for quantitative analysis for classroom utilization or enrolment projections.
- The opportunity represented by this campus' capacity for offering specialized technical programs, developing specialized immersion programs, and hosting visiting scientific and academic interests ought to be more fully developed and explored.

2.2 Space Utilisation

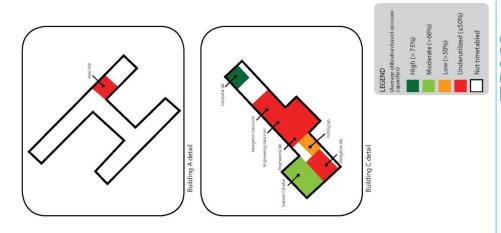
2.2.1 COM-FSM Campus Utilization Levels (2008-2012)

Utilization Levels	Chu'uk	FMI	Kosrae	National	Pohnpei	Yap	All Campuses
High (>75%)	0%	13%	11%	33%	76%	25%	35%
Moderate (>66%)	36%	0%	33%	33%	0%	25%	21%
Low (>50%)	55%	25%	44%	21%	24%	25%	30%
Underutilized (<=50%)	9%	63%	11%	13%	0%	25%	15%
Total	100%	100%	100%	100%	100%	100%	100%



2.2.2 Space Utilisation Summary Plan









Facilities Masterplan Summary - Space Utilization Diagrams Part

College of Micronesia - FSM July 2013 rev A 650 0242

3 Spatial Review

Key points for the Facilities Study

- Move the women's quarters within the campus and review provision and number of instructor's residences
- 2. Provide a dedicated study space
- 3. Increase computer lab space and provide Wi-Fi across the campus
- 4. Relocate main road out of the centre of the campus

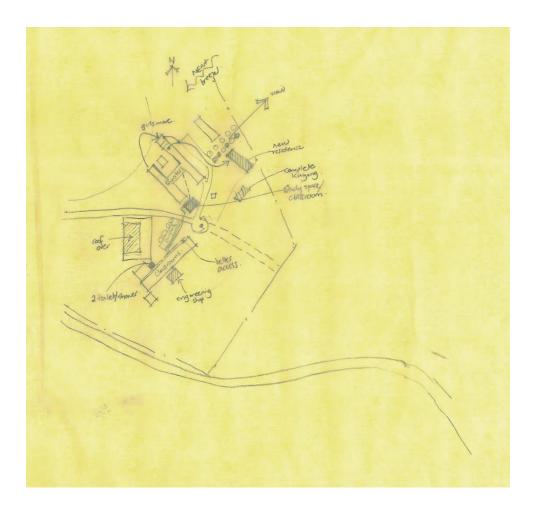
3.1 Design Concept Plans

The design concept plans prepared during the site visit in August/September illustrate the option developed. They have been derived from a combination of the input received from students, faculty and staff, the site visit observation and key messages from the utilization study. These broad concepts show the design moves prior to project costing and evaluation against projects identified for all other campuses. Refer to Part 2 – Common Report for the full schedule of projects across all campuses.

The concept drawing considers the following inputs from the spatial review:

- Activity zones
- Range of people spaces on campus
- Circulation pedestrian and vehicular
- Building and landscape character
- Infrastructure including energy efficiency





3.2 Focus Group Summary

3.2.1 Student focus group

A student focus group was held between 12pm and 1pm on Friday the 23st of August. This session provided an opportunity for students to discuss positive features of the campus and any issues with regard to facilities on site. Eleven male cadets attended.

A one page question outline was provided as a prompt for discussion. This sheet provided an opportunity for students to leave any further comments. Three questionnaires were received.

Positive attributes commented on was the separation of the campus from the Kolonia and the ability to concentrate on studies.

Issues raised in order of priority were:

- 1. The need for Wi-Fi on site
- 2. Provision of sports equipment
- 3. Short of a navigation instructor so share teaching space (2 class levels with one teacher)
- 4. Need for a dedicated study space
- 5. Classroom the mess hall is used as a teaching space



- 6. Not enough computers in the laboratory
- 7. Room quarters ventilation is not adequate sleep on the floor, existing mattresses are an issue

Information gleaned from focus group questionnaires completed by students also included:

- 8. The use of the cafeteria used as a classroom was seen as negative although not elaborated on why.
- 9. The washing facilities are too expensive and some students wash their clothes by hand to avoid the cost.
- 10. Transportation between the campus and the living compound is not provided.
- 11. Library equipment deemed to be of low quality and insufficient for the number of students.
- 12. Basketball court fencing
- 13. Need for a Koyeng shade structure for study during the day

Note: Items in italics are noted but sit outside the scope of the facilities development

A further separate meeting was held with female cadets. Items raised in this discussion were:

- These are the second year of upcoming graduates would be good to have a choice of shared quiet recreational and outdoor seating areas. Currently have a bench outside - would be good to have a small koyeng to use
- No toilets on the classroom side for students
- Need for another classroom.
- Need for a separate study area
- No shelter outside the classroom doors for rain protection
- Mattress condition
- Inadequate bedroom ventilation

3.2.2 Faculty staff and staff focus group

A combined staff focus group was meeting was held between 3.30pm and 5pm on Wednesday the 21st of August. A similar format was followed to the student focus group. Sixteen staff and faculty staff attended and thirteen completed questionnaires were received.

Positive attributes commented on was the move to using the land to grow food on site and compost food scraps on site. The opportunity to extend this further for livestock including pigs and goats was raised as a means for further campus sustainability.

A comment on the distance from Kolonia was also made as being a positive feature as it is perceived to enable students to concentrate on their studies better.

Issues raised for Facilities Study consideration in order of priority were:

- 1. Lack of cover for fire fire hydrant and hoses or mobile pump as hoses from the reservoir
- 2. Rats in the mess hall



- 3. Road through the center of the campus
- 4. No restroom on the classroom side of the campus for students
- 5. Status of the fire extinguishers
- 6. Staff facilities
- 7. Recreation room for students either ping pong or television watching not compatible to have both activities at the same time
- 8. Covered recreation area P.E. is cancelled in torrential rain and there would be enhanced use for squads to compete against each other
- 9. Investigate opportunities for solar power consideration would be needed to means to secure these in a typhoon event.

A summary of key points from the questionnaire are:

- Flooding of the footpath access to the classroom building
- A new building to provide for cadet and staff meetings which could also serve as a cadet study
- The main road to Gagil runs through the center of the campus. This should be relocated for the safety of all campus and road users.
- More parking spaces which are allocated or separate parking areas for staff, cadets, and faculty members. Have parking on both sides of the campus. A bus or coach for transporting cadets to and from study sites.
- Offices are too small and in poor condition
- Private space needed for counselling cadets one on one
- Crossing the main road outside the school is hazardous for all campus users
- The number of toilets are insufficient for campus users and the locations are illogical particularly with no toilets near the classrooms
- Lack of general maintenance has left buildings looking tired.
- Classroom sizes are too small and too few in number for the 3 programmes and other safety courses offered at this campus.
- Sound echo is very bad in classrooms
- Library is too small
- Computer lab is too small with insufficient numbers of computers (Note: could be remedied with computers island in the center of the room similar to the Yap Learning Resource Center)
- Parking should be formalised as campus users currently park anywhere on campus
- Relocate water services and relay drain pipe
- Engineering lab, particularly the welding area needs roof repairs/replacement and to be made considerably larger to house equipment and to provide for safe use by the cadets doing training.
- School cars needs replacing/repair
- Underground services need to be replaced
- Betel nut chewing areas need to be controlled or eliminated
- Fence around the campus perimeter
- Build new buildings so the wiring, water and sewer lines are easier to maintain
- Plant more trees, flowers and grow vegetables
- Sewerage line and water pipes need replacing.
- Emergency evacuation exit points from buildings very limited.



- The LRC and the computer lab are too small with some students wanting to study not able to do so comfortably or at all.
- The computer lab extension is leaking badly and needs walls to keep the rain and unwanted visitors out.
- Doors need replacing for security reasons
- Install doors and windows in open areas
- Install shelter over the sidewalks outside the labs and classrooms and improve drainage for pedestrians in the rainy season.
- "The campus should look more attractive and alive" and outdoor areas should be better maintained
- Pave footpaths, car parks and roads and install signage to indicate parking and pick-up/drop-off points
- Parking areas should have shelters over the top.
- A gymnasium

Further meetings were held with Matthias Ewarmai (Director), Alex Raiuklur (Acting Instructional coordinator), Clotida Dugwen (Fiscal officer) and the Maintenance Supervisor (Christopher Igem) along with informal discussions with other staff on the site walk over. Further to this an exit meeting was held with Matthias, Ces (SSC), and Penijamini Nailati (Chief mate) and Cecilia (Student Services)

A summary of points relevant to the Facilities Study are outlined below:

- Need to provide for accommodation on site ideally in its own area rather than being mixed with administration function
- Girls quarters only have one egress point in a fire a better location would be further from the main road
- Fire fighting capability and ensuring sensible distance between surrounding vegetation and the campus buildings
- There is not enough room in the navigation room to layout all the charts required for study. These are shared for instruction, however need to be able to have space to layout own chart for examination.
- Floor of the Kuyong next to the security shed remains unfinished and therefore sheltered area remains unused
- Underground drains will require replacement at some stage
- No separate volleyball court
- The road through the middle of the campus becomes an issue in the weekends. People from the nightclub drive through the campus and park up on the other side - this is sometimes a security issue.
- Catchment from the overland flow from the basketball court ponds at the classroom entry sometimes ankle deep
- Note enough welding booths with one booth provided there is a limitation on the practical time available to each student
- The campus runs as a combination of theory in the morning and practical classes in the Labs in the afternoon so should be assessed on that basis. Labs will remain unused in the mornings as all cadets are being taught theory subjects in the classrooms.
- Limit of 60 cadets due to residential capacity, however, there is opportunity to provide short course diesel mechanic courses for others
- The engineering shop area has open sides with the backup generator exposed to the weather in typhoon event
- Dedicated parking area at the classroom side of the campus



- No conference room space ability to video-conference with other campuses in the future, provision of online tutorials
- Ideally be able to house six instructors on site preferred option
- IT office is too small cupboard size
- Roof deterioration is the largest maintenance issue
- Need for maintenance storage
- Shutters need to be upgraded for typhoon preparedness. The facility is used as a community shelter in an event
- Residences need two access doors
- The campus is set up to simulate operations on a ship and therefore runs on a tight schedule. Exercise is held for cadets at 6.30am before class starts at 8.30am. Classes run for till 4.30pm with a break for lunch. There are two hours of study at night. Shore leave is given on a Saturday with a requirement to be back at 6.30pm on campus.

Key issues raised in the Focus Groups to inform the development strategy

- 1. Facilities issue Provide for addition study and classroom area instead of mess hall
- 2. Infrastructure issue Need to review and upgrade leaching field, drainage on site, fire fighting capability, electrical supply as the existing site infrastructure is over 40 years old
- 3. Site layout issue Relocate the main road out of the centre of the campus
- 4. Educational outcomes Provide dedicated areas for small group and quiet study instead of using quarters for study. Along with this increase the computer lab space and Wi-Fi.





3.3 Spatial Analysis

A review of the existing components that contribute to the physical environment and the look and feel of the campus are outlined in the following tables. Divided into different aspects these include the contextual response to the site, activity zones, building function and form, open space and circulation. This analysis forms one of the inputs into the concept development and project identification.

Context and response - Identifying the existing site features

Key attributes

- Chain fences delineate the campus edges
- View out to the hills through and avenue of coconut trees
- Residential area on a lower level on the site to the main building
- Open space with under a field of coconut trees on one side of the campus
- Level open space for baseball pitch and basketball court
- Key entry point

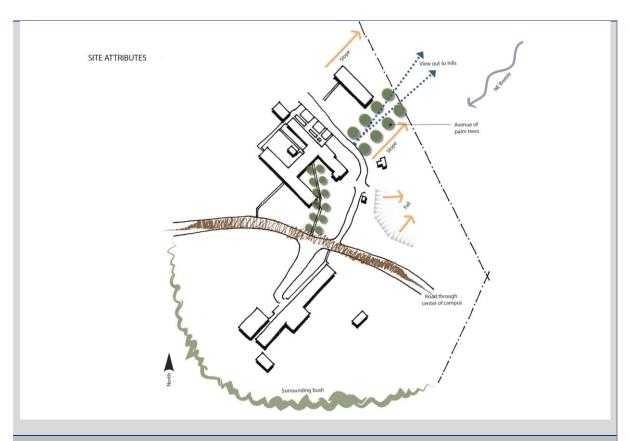




Main entry onto the campus on the main road from Colonia is clearly visible.

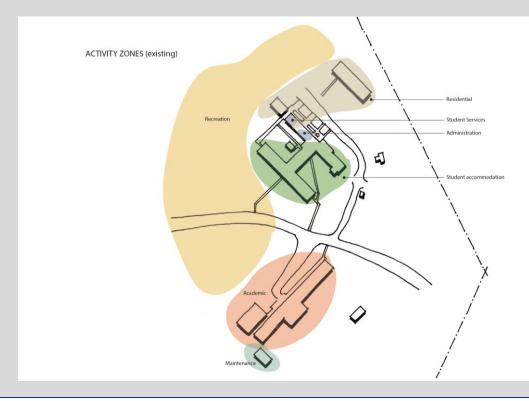
Level open area for baseball and exercise



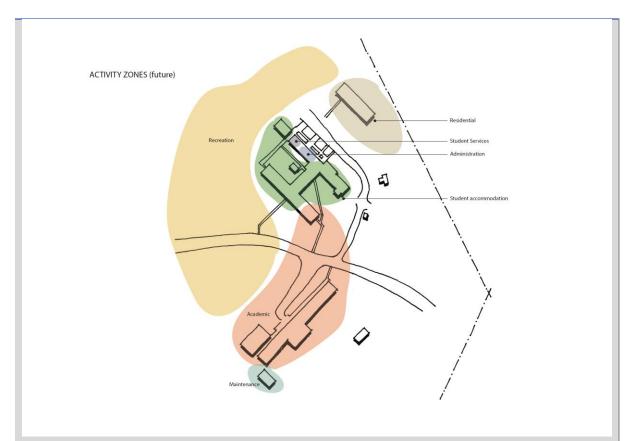


Activity zones – grouping areas with common functions together

- Accommodation and academic zones are clearly separated
- Maintenance and instructor residence are located on the edges of the site



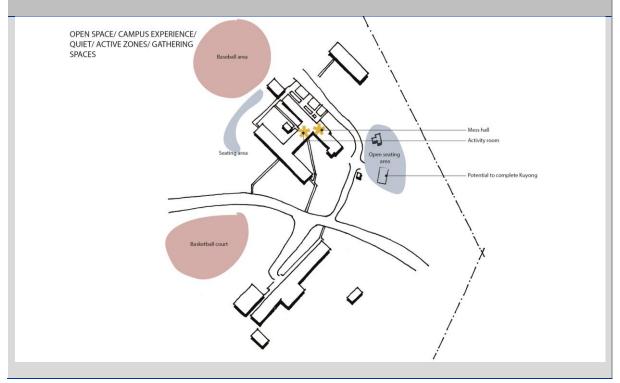




Points to consider in future planning

 Provide for an overlap between academic and residential zone to provide for study areas/ additional open plan meeting space

Types of people spaces – individual, small groups or communal gathering spaces

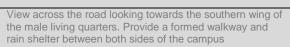




Circulation - the way vehicles access the site and how pedestrians move around the site

- Paths are not continuous
- Need to cross main road that runs through the middle of the campus







Informal path being formed to the security post - provide a formed walkway

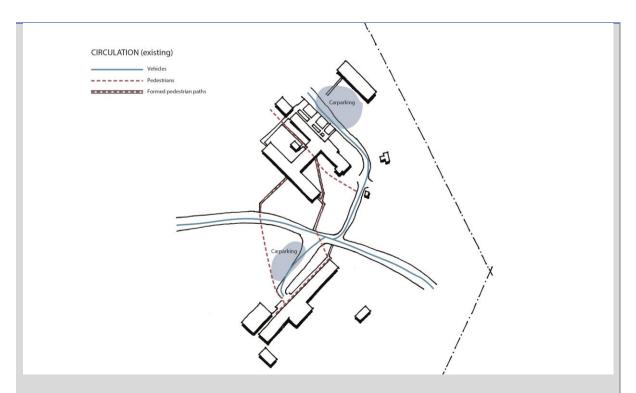


No link to a formed walkway on the classroom side of the campus



View alongside the classroom building looking towards the road





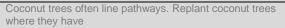
Points to consider in future planning

- Provide a dedicated car park area for the classroom area
- Provide a clear parking area for residences

Building and landscape character – look and feel of the campus

- Large building footprint
- Monopitch rooves
- Paths lead to building entries
- Coconut trees line entries with kuyong in between

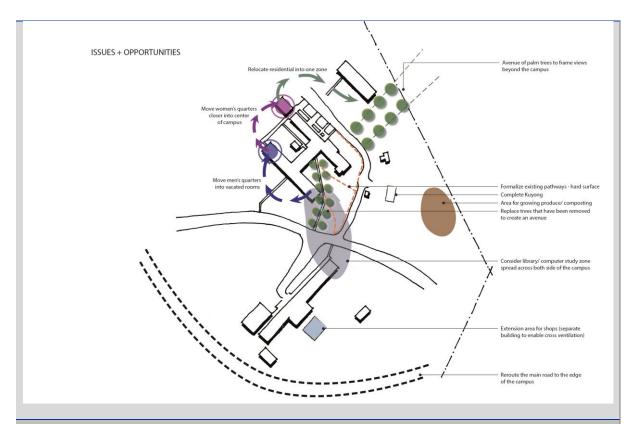






Avenue of coconut trees framing the hills beyond. Retain this open space and recreation area (volleyball area). Any buildings to be located outside of this zone.

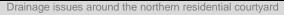




Infrastructure - theservices that enable the campus to operate

- Town supply water
- Waste water to leaching fields
- Lighting provided on buildings only
- Emergency generator located in the mechanical shop
- Underground mains power terminates at the corner of the mess hall need to provide for direct power supply and metering for instructors residences
- No firefighting capability to the residential area
- Water catchment from basketball court and water reservoir no longer in use available for fire-fighting
- Areas of ponding and flooding particularly on low lying areas







Potential to compost to reduce the amount of kitchen waste



3.3.1 Existing building profile and considerations

Building

A – Administration/ student services/ residential quarters and mess hall



Points to consider in future planning

Remove the staff residential use out of this building to provide for a separate girls living quarters and sheltered outdoor area

B - Staff housing



Points to consider in future planning

Provide a dedicated car parking area

C – Classroom building – Library, computer lab, classrooms and workshops

Outline

Building A is approached from the main entry through the security post. The administration occupies the eastern wing along with student services, the mess hall and two residences. Car park spaces are provided directly outside this building. The western wing contains the cadet living quarters.

Foot paths are provided from this building towards the classroom building however there is no cover at entry doors or covered walkways to provide rain protection.

Location for its function – adjacent to the security post

Quality and suitability of spaces for its function – Contains a range of uses and there is potential to relocate functions. The office space is small with currently no conference facility provided

Disabled access - Not consistently provided for on campus

Teaching spaces – One teaching space identified - mess hall is used for first year classes 880ft

Amenities, toilets - one unisex toilet in administration, 2 WC for women's quarters, 4 for mens quarters Building condition points: Targeted regular maintenance and cleaning. Reseal or replace roofing and fix ponding issues immediately. Replace typhoon shutters to rooms used in emergencies. Upgrade toilet and sanitary plumbing facilities immediately (to prepare for use in emergencies).

Building age – 50 years – circa 1964

The staff housing lies to the north of the administration building. Private area for residents is provided on the gently sloping grounds to the north of this building and car park space to the south as seen in the photo.

Location for its function – in a separate zone at the edge of the campus

Quality and suitability of spaces for its function – Focus groups expressed need for 2 doors to each unit

Disabled access - None provided – only if required by resident

Building condition points: Repair roof leaks immediately. Treat and spot

Prime rusted roofing immediately.

Building age - 17 years - late 1990s

The classroom building is located to the south of the main road and is where the cadets come for theory and practical classes. Access is provided along the western side of the building facing the basketball court.

Location for its function – in a separate activity zone from the residential facilities

Quality and suitability of spaces for its function – The library space is too narrow for its function, the IT room is



Building



Points to consider in future planning

Provide a toilet building for students and a shower amenity for staff

Provide cover at least over the entry doors Increase the shop area and cover over the emergency generator

Outline

not sufficient in area for its function and the engineering faculty office is also not of a size to fit 4 instructors. Removing a function may provide the opportunity to relocate rooms.

The space in the shop limits the ability to provide more than one welding bay

Disabled access - None provided – there are tripping hazards along the access walkway

Amenities, toilets - one toilet for staff and faculty Building condition points: Targeted regular maintenance and cleaning. Reseal or replace membrane roof areas. Replace rusted roof to Seaman's shelter immediately. Building age – 50 years – circa 1964



D - Maintenance office



Points to consider in future planning

Indicate potential for further storage space dependent on the result of an equipment review and any layout efficiencies that can be made within the existing area. The maintenance office is located on the south west corner of the classroom building with access from the southern side of the building.

Location for its function – in an appropriate location at the edge of the campus

Quality and suitability of spaces for its function – provision of additional storage space would be beneficial for the storage of replacement materials and fixtures

Amenities, toilets - none - have use of the adjacent classroom building facility

Building condition points: Targeted regular maintenance and cleaning. Targeted replacement of rusted roofing and cladding immediately.

Building age - 17 years - late 1990s



3.4 Accommodation Review

3.4.1 Facilities ratios

Item	
Fall 2013 enrolment	60 (of which there are 4 women cadets). Residential capacity is restricted to the rooms provided. It is assumed there will be no room expansion. This will limit the number of women attending the FSM-FMI campus. The demand for places for women needs to be assessed on an on-going basis.
Number of faculty and staff (from general catalogue 2013 - 2014)	15 in catalogue (26 attended focus group meetings)

Following is a summary of the target spatial allowance per person for different room uses that has been provided by COM-FSM. Areas where the space provided does not meet the needs of the number of users or function are summarised at the end of the table. This summary forms an input into the future accommodation planning and the projects identified for the campus.

Item	COM-FSM standard target	Provided on FMI campus
Parking area	Parking for 75% of staff, no parking required for cadets	Adequate parking provision on site
Toilets	 Two indicators Aim is for toilet block at each teaching building From 2006 – 2012 strategic plan – 1 female toilet for every 30 students, 1 male toilet for every 40 students. Reference taken from American Institute of Architects 10th edition. 	No toilets provided for students at the classroom building Adequate provision of shower and toilet facilities at the cadets quarters
Drinking water	Accessible drinking water	Provided from mess hall
Teaching space per person	25ft ² per student (AIA is 30ft ²)	2 large classrooms 1100ft2 (100msq) 2 medium sized classrooms area 700ft2 (65msq) 2 small seminar spaces 320ft2 (30msq)
Computer Laboratory	25ft ² per student (AIA is 40ft ²) (2.4msq)	Computer lab is 380sqft – room for 15 students only Require space double this size



Item	COM-FSM standard target	Provided on FMI campus
Small group study/ study carrells	25ft ² per student (AIA is 50sqft for reading rooms)	Library is 345sqft. Assume 50% for stacks = 175sqft (room for 7 cadets) Require space double this size
Shops/ vocational rooms	50ft ² per student (4.7msq)	Engineering shop is 820sqft - space for 16 cadets Adequate size provided for current education delivery
Private office	100ft ² per person (9.3msq)	IT office is 70 sqft (require larger size and separate server room) IC office in Building C is 100sqft - adequate size Business office 1 & 2 in Administration Building A are 120sqft - adequate size
Work station	60ft ² per person (5.6msq)	
Faculty work station with side chair	80ft ² per person (7.43msq)	Navigation fishing faculty office in Building C is 450sqft – room for 5 faculty, currently 4 - adequate size Instructors office in engineering shop is less that 200sqft - space for 2 instructors - currently 4
Spatial assessment summary		Computer lab and library combined require additional 700sqft IT office/ server room requires additional 60sqft Engineering shop instructors office requires additional 200sqft



3.4.2 Accommodation schedules – new buildings

	Building 1 – Residential building (two units)	
No	Room name for Unit 1	Area (sqft)
1.01	Living room	250
1.02	Kitchen	130
1.03	Bedroom	150
1.04	Bedroom	150
1.05	Third room	150
1.06	Bathroom	150
1.07	Storage	100
	Subtotal - rounded	1080
	Circulation and wall thickness @20%	300
	TOTAL (rounded)	1400
	Unit 1 and 2 combined	2800

	Building 2 – Classroom/ study building		
No		Area	
	Room name		
2.01	Study room	500	
2.02	Computer space off study area – bifold doors	500	
	Subtotal	1000	
	Circulation and wall thickness @20%	200	
	TOTAL	1200	

	Building 3 – New Engineering Shop		
No	Room name	Area	
3.01	Shop office (area for 2 people)	200	
3.02	Engineering shop	750	
3.03	Storage area	200	
	Subtotal	1150	
	Circulation and wall thickness @20%approx	250	
	TOTAL	1400	

3.4.3 Building area changes over five year periods

Existing square feet (Fall 2013)	Remove buildings to 2018 (sqft)	Add buildings to 2018 (sqft)	Area in 2018
22,400		Residences (2800)	25,200
Existing square feet (Fall 2018)	Remove buildings 2018 – 2023 (sqft)	Add buildings 2018 – 2023 (sqft)	Area in 2023



4 Condition Assessment

Key Points

The Operational budget for Years 1-10 for the FSM - FMI campus is recommended to be in the order of \$US3.05M (\$305,000 average per annum). The operational cost equates to 4.71% of the estimated 2013 replacement value which is higher than expected and this reflects the existing poor condition of the assets

4.1 FSM-FMI Campus Building Condition Review

4.1.1 Introduction

Beca International Consultants Limited (Beca) carried out an Asset Condition Assessment of the existing buildings and site infrastructure located on the FSM - FMI campus for COM in June 2013.

The purpose of this Asset Condition Assessment Report is to record the existing condition of the COM-FSM assets (buildings and site infrastructure) so that:

- 1. The indicative cost of operating the COM-FSM assets through a 10, 20 and 30 year life cycle is identified and.
- 2. Decisions to either renew/upgrade or to demolish/replace the existing assets can be made.

This Asset Condition Assessment chapter gives each asset an indicative condition grade, identifies the asset replacement cost, and the cost of operating (renewing and maintaining) them. This chapter read as part of the overall Facilities Study is intended for use as the base reference for campus planning decisions. It should be noted that the costs presented in this Asset Condition Assessment chapter assume that the existing assets will be renewed, refurbished and maintained (with the exception of some buildings which are demolished). Any buildings which are replaced by the current campus planning process (and subsequent changes in annual operating costs) are not included in this Asset Condition Assessment Report

The findings of this report are based on the on-site Condition Assessment conducted by Beca in June 2013. It should be noted that a visual assessment only has been carried out and that no indepth investigations have been possible. No detailed structural or seismic strength investigations have been undertaken.

4.1.2 Scope of Condition Assessment and Key Outputs

The scope of the Condition Assessment covers 6 No. existing buildings (excluding minor support structures and buildings) and site infrastructure located within the FSM - FMI COM-FSM campus. The key tasks undertaken to complete this report include:

- The FSM FMI campus was visited in June 2013 to photograph and record visual defects in the buildings and site infrastructure.
- Data gathering and making observations.



- Grading the condition of each building asset (against a pre-determined set of criteria) and collating this to establish an overall condition grade for each asset.
- Assess the physical condition of the built assets (i.e. buildings and site infrastructure). Establish baseline condition to enable Life Cycle cost analysis.

The key outputs of this report include:

- A general overview of the current condition of the assets.
- A condition appraisal of each building (with the exception of minor structures) and the site wide infrastructure – Refer Appendix 'B' – Asset Condition Assessment Dashboard.
- Site observations and records of the existing site infrastructure
- Estimate of the potential replacement cost of each asset.
- Estimate the Operational Cost (Asset Renewals plus maintenance) of the assets as they currently exist. NOTE: the Operational Cost contained in this Condition Assessment assumes that all current assets are retained and maintained. Alternative Operational Costs for the proposed campus re-development are noted separately in this overall report
- Provision of an indicative Maintenance and Asset Renewal Plan. This gives indicative regular maintenance activities, timeframes for asset renewals and estimated costs (Note: costs indicated for maintenance and asset renewals exclude escalation and should not be used for budgeting purposes). Refer to Appendix 'C' for details on the Indicative Maintenance and Asset Renewal plans.

4.1.3 Reference to Part 2 Detailed Report - Common to all campuses

Additional (and more general) information pertaining to the FSM - FMI Campus Asset Condition is contained in the "College of Micronesia – FSM Space Utilization and Facilities Master Plan Study Part 2 Detailed Report – Common to all Campuses". This report contains (but is not limited) to the following information;

- Scope of condition assessment and key outputs,
- Definitions,
- Methodology of condition assessment and information collection,
- Condition grading system and building elements assessed,
- Forecast operational costs,
- Escalation and economic assessment
- Results/findings and conclusions/recommendations.

4.1.4 Forecast of Operational Costs

The forecast Operational Costs have been prepared as follows;

- 1. Develop the Maintenance Cost Plan. This is the cost of annual routine maintenance and includes building washing, painting, repairs and maintaining building services (mechanical, electrical fire etc.). This cost has been established by multiplying quantities (e.g. wall area) by an appropriate \$/ft2 rate for washing or painting. To this an allowance for general overheads (e.g. supervision, vehicle running expenses etc.) has been added.
- 2. Develop the cost of periodic element Renewals. From the condition grade assessment and amount of remaining life in the building element the date and cost of renewal is determined (e.g. a roof with 10 years life remaining has been budgeted for replacement in 2023). For the COM-FSM campuses the cost of renewals has been viewed over 10, 20 and 30 year periods.



3. The forecast Operational Cost is established (by adding annual maintenance and periodic element renewal costs). This is annualised or averaged over a 30 year period (i.e. the total operational cost over 30 years divided by 30. It should be recognized that for cash-flow purposes actual operational costs will vary from year to year (depending on the amount of actual renewals required in that specific year). Detailed monitoring and management of the operational cost cash flow on an annual basis will be required by COM-FSM.

4.1.5 Escalation

Escalation over a 30 year period of asset renewals and maintenance is a significant cost. Because of the significant impact of escalation two sets of cost, one which excludes escalation (i.e. present day 2013 costs) and the other which includes escalation have been presented at the main summary level. Escalation has been assumed to be 3.4% per annum for the next 30 years. This is based on an assessment of historical data provided by Mundi (refer web-site address below);

http://www.indexmundi.com/federated_states_of_micronesia/#Economy

It is critical for long term funding purposes that the allowances for escalation are included in all budgets and funding applications.

4.1.6 Results/Findings, Conclusions and Recommendations

4.1.6.1 Condition Grade Assessment Results

The following is a summary of the condition grade of the building assets across the Chuuk campus.

Asset	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
A – Administration/Student Services / Living Quarters / Mess Hall				√	
B- Staff Housing				✓	
C – Classrooms, Library & Shops			✓		
D - Maintenance				✓	
E – Shower House				✓	
F – Security Post				✓	
Site Infrastructure	N/A	N/A	N/A	N/A	N/A
Total	0	0	1	5	0



4.1.6.2 Campus condition grading summary plans







From our condition assessment of the FSM - FMI campus we observe the following:

- 4. Refer to Appendix B Asset Condition Assessment Dashboards for a summary of the asset renewal costs and the top five items, on each building or site infrastructure element, needing urgent maintenance, renewal or replacement
- 5. Five (of the six) buildings are rated as condition grade 4 which means that these assets are in poor condition and are showing significant signs of failure. Targeted regular maintenance on all of the assets is required to extend their life. A clear, well organised asset renewal and routine maintenance plan needs to be developed and this needs to be implemented. An indicative maintenance and asset plan has been included in Appendix C.
- 6. Maintenance is being carried out but the current Operational budget (\$150,000 per annum for all of the six COM-FSM campuses) is insufficient to meet both maintenance and the periodic renewal of building element requirements. There is a significant amount of deferred asset renewals and maintenance which is increasing the amount of deterioration in the assets.
- 7. Unless the current Operational budget is increased the condition of the assets will continue to deteriorate and the number of buildings requiring replacement (and consequently additional capital replacement funding) will increase.
- 8. The Operational budget for Years 1-10 for the FSM FMI campus is recommended to be in the order of \$US3.05M (\$305,000 average per annum). The operational cost equates to 4.71% of the estimated 2013 replacement value which is higher than expected and this reflects the existing poor condition of the assets.
- 9. Regular monitoring and review of the asset renewal and routine maintenance plan needs to be carried out



4.1.6.3 Forecast Operational Costs Results

Outlined below are forecast operational costs split into 10 year sections over a 30 year period. Note that costs including and excluding escalation are identified. Funding of the operational costs should be based on the costs that include escalation.

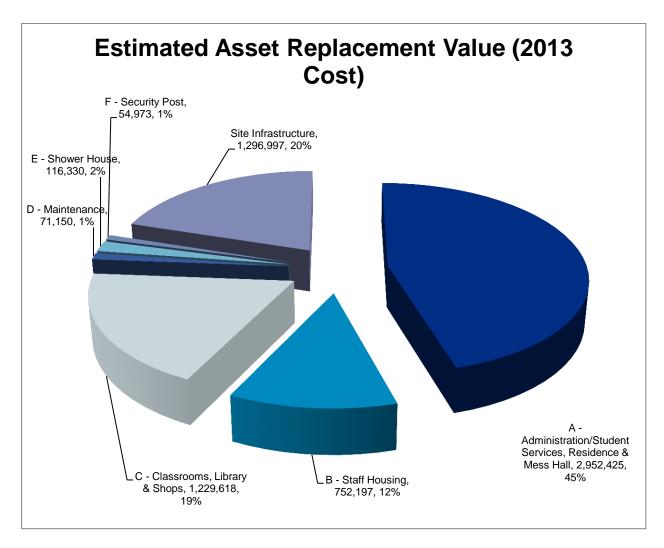
Forecast Operational Costs

Ref	Asset Description	Replacement Cost	Year 1 - 10 Asset Renewal Cost (\$ USD)	Year 11 - 20 Asset Renewal Cost (\$ USD)	Year 21 - 30 Asset Renewal Cost (\$ USD)	Total 30 Year Asset Renewal Cost (\$ USD)	Annualised Total Operational Cost	Total Year 1-10 Operational Cost (\$USD)	Total Year 11-20 Operational Cost (\$USD)	Total Year 21-30 Operational Cost (\$USD)
	Acces becomparen	(\$ USD)	V ,	, ,		,		(, , ,	, ,	, , ,
1.00	A - Administration/Student Services, Residence & Mess Hall	2,952,425	688,489	767,912	867,360	2,323,761	93,403	847,932	927,355	1,026,803
2.00	B - Staff Housing	752,197	231,519	99,928	243,088	574,534	23,674	276,747	145,156	288,316
3.00	C - Classrooms, Library & Shops	1,229,618	266,880	243,693	430,233	940,806	38,690	340,176	316,988	503,529
4.00	D - Maintenance	71,150	24,516	18,222	23,747	66,485	2,961	31,969	25,675	31,200
5.00	E - Shower House	116,330	28,435	24,687	32,892	86,014	4,242	42,180	38,431	46,636
6.00	F - Security Post	54,973	17,115	18,015	7,627	42,757	2,149	24,353	25,254	14,866
7.00	Site Infrastructure	1,296,997	209,611	920,212	157,999	1,287,821	57,230	352,632	1,063,233	301,020
	TOTALS EXCLUDING ESCALATION	6,473,690	1,466,564	2,092,668	1,762,945	5,322,178	222,348	1,915,988	2,542,092	2,212,369
	Escalation Allowance		348,095	1,511,599	2,344,760	4,204,454	218,810	1,134,707	2,298,210	3,131,371
	TOTALS INCLUDING ESCALATION (3.4% per annum assumed)		1,814,659	3,604,267	4,107,705	9,526,631	441,158	3,050,695	4,840,302	5,343,741

The forecast Operational Costs (including escalation) as outlined in the above table are suggested for funding and budgeting purposes. Annualised costs are the total operational costs spent over a 30 year period (divided by 30).

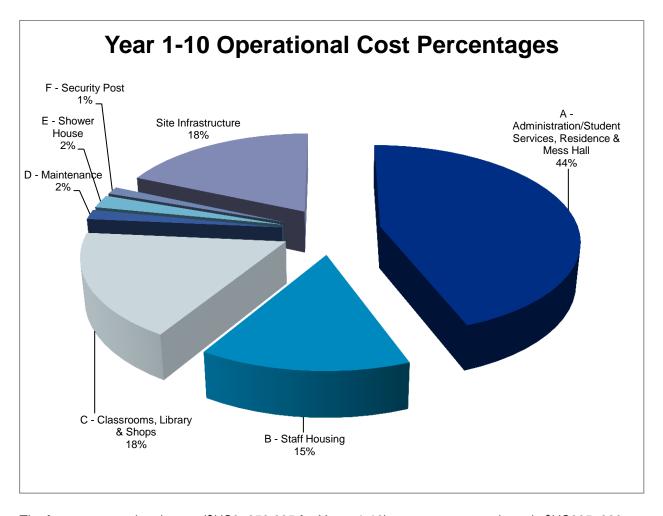
The estimated replacement cost (2013 costs) of the COM-FSM assets on the FSM - FMI campus is approximately \$US6.473M (excluding land, loose furniture and equipment). Outlined below is the breakdown of the estimated asset replacement cost for the campus.





The Operational Cost and Percentages table (below) highlights where COM-FSM needs to invest in asset renewal and routine maintenance to maximise the life of the existing capital assets, to prevent deterioration and to avoid additional capital replacement expenditure.





The forecast operational costs (\$US3, 050,695 for Years 1-10) equates to approximately \$US305, 000 per year average) identified above are significantly higher than what is currently being budgeted for maintenance by COM-FSM (\$150, 000 per annum total for all 6 campuses). We consider that the forecast operational costs as outlined above are necessary to operate and maintain the capital investment already made by the COM-FSM on the Chuuk campus.

4.1.7 Limitations of the Condition Assessment

The life cycle and renewal/replacement projections used in our report are indicative only as they are predictions of future circumstances, which cannot be assured. Actual results may vary from the projections and these variations may be significantly more or less favorable than assumed herein. The findings in this report are current as at the date of inspection (June 2013) and not as the date of this report.

All estimated asset/capital replacement costs are high-level and indicative with an accuracy range of +/-30%. Please note that these costs exclude all Government Goods and Services Taxes, Import/Customs Duties, Design/Procurement Costs, etc.

All estimated operational costs reflect capital replacement and maintenance works only of the buildings and site infrastructure.

All costs are detailed in the data sheets and spreadsheets (refer appendices) are current as at June 2013. Escalation of the Operational Costs have been added to the overall cost summaries. Escalation is assumed to be 3.4% per annum.



This assessment is not a health and safety audit. Beca does not accept liability for any client health and safety issues whether reported or not. Any issues arising from the possible presence of contaminated or potentially toxic materials onsite, (i.e. asbestos) are excluded from this report. This report does not constitute an environmental audit and no allowance has been made for the presence of any such materials should they exist at the subject property.

Our building condition audit is based on a visual assessment of the buildings and site infrastructure only. Furthermore the visual assessment was not a detailed engineering survey of the assets. Cursory observations have been made of the following specialist elements however our report will not include for detailed investigation reports such as:

- Building Code of Compliance issues
- Building structures (e.g. Structural integrity, building subsidence, structural decay, etc.)
- Health and safety issues (e.g. asbestos, contaminated fill, leaky buildings, etc.)
- Mechanical services such as heating and ventilation
- Electrical services such as power, lighting and building management systems
- Information & technology and communication systems
- Sanitary plumbing and drainage
- Water reticulation
- Fire services
- Vertical transportation such as lifts and escalators
- Security

Whilst each building's structure was inspected for defects such as settlement, spalling, cracking and bowing, etc. it should be noted that this was an exterior visual assessment of the exposed parts of the building structures for the purpose of assigning condition grades and was not a structural engineering assessment of the buildings.

The building condition audit does not include for the inspection of sub-floor voids, roof/ceiling voids, plenum spaces or other areas that are difficult to access or could trigger health and safety issues. Our report will include a condition assessment of the roof surfaces, however these will be observed from ground level. No underground services have been able to be assessed, No detailed inspections (e.g. removal of wall linings etc.) have been carried out.

The building condition audit will not include for destructive testing of building elements which is normally associated with identifying extensive damage as a result of weather tightness issues. Problems potentially relating to leaky buildings and weather tightness will be flagged for further investigation.

The preparation of this report does not imply in any way that Beca has audited the financial statements, management accounts, engineering or other records of the COM-FSM Where another party has supplied information for use in this report, it is assumed to be reliable.

This report should not be reproduced or used for any other purpose without Beca's prior written permission in each instance.

Beca reserves the right, but not the obligation, to review all calculations included or referred to in this report and, if considered necessary, to revise its opinion in the light of any information existing at the site visit which becomes known after



4.1.8 Assumptions Made in the Condition Assessment

It has been assumed that:

- The rate of escalation over the next 30 years will be an average of 3.4% per annum.
- The existing buildings will be retained (this ignores the possible re-development of buildings as proposed by the facilities development plan)

4.1.9 Exclusions from the Condition Assessment and Forecast Operational Costs

The following has been excluded from the Condition Assessment and forecast Operational Costs:

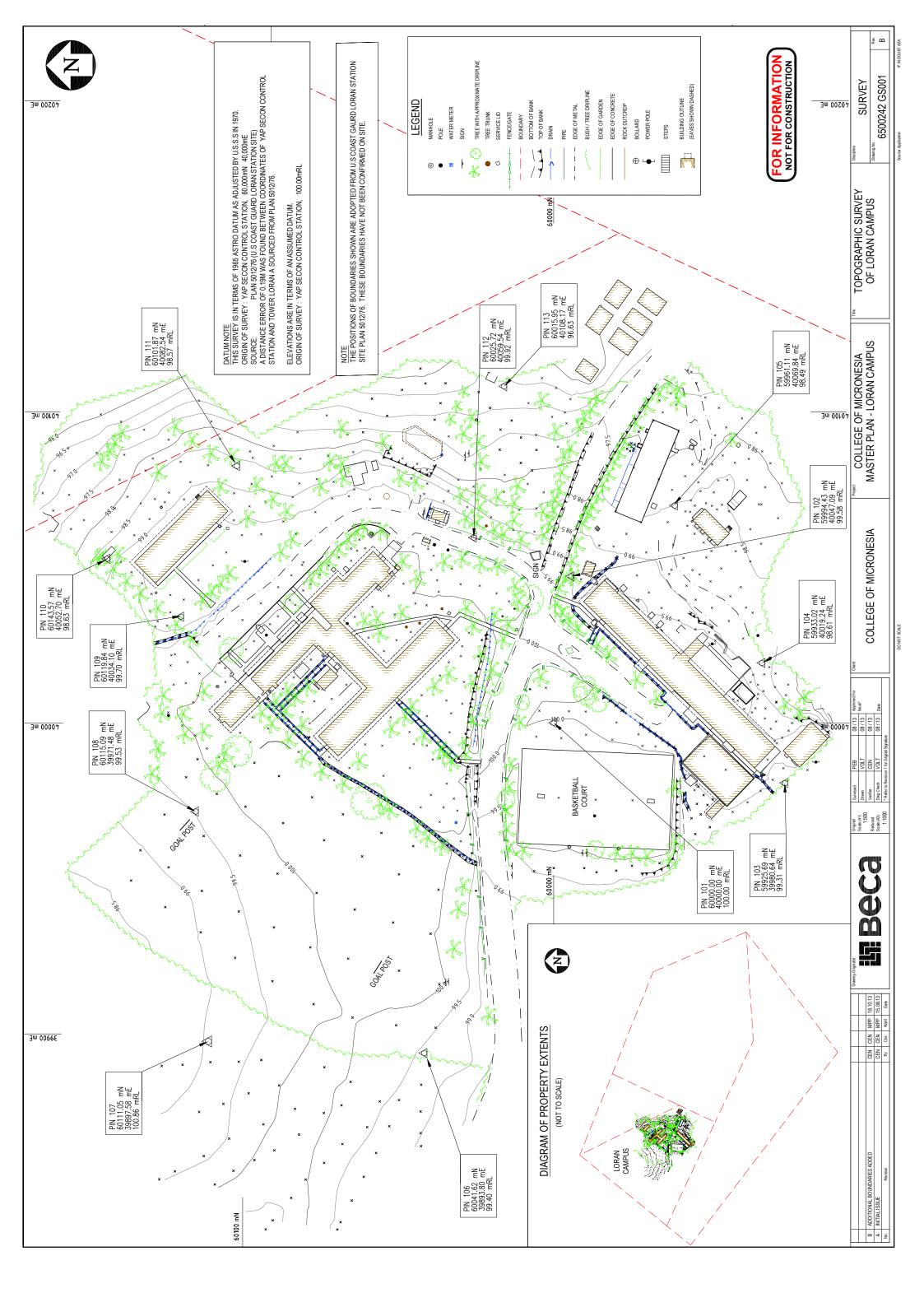
- Replacement of loose furniture, fittings and equipment has been excluded.
- The cost of renewal or maintenance of buildings that are leased is excluded (it is assumed that the building owners will carry out renewals and maintenance)
- This assessment excludes all other College operating costs such as energy bills, teaching & administration staff salaries and expenses, disposables, vehicles, tools, machinery, rental equipment, property/building leasing costs, travel costs, insurances etc.
- Taxes, duties and government charges.



Appendix A

Topographical Survey Plan and Title Information





Appendix B

Building Condition Assessments







A - ADMINISTRATION/STUDENT SERVICES, LIVING QUARTERS/MESS HALL





				Co	ondition G	Sauge					·		TOD - 114 105 -:	
		Condit	tion Grading	VG G	Α	P VF		Asset Rer	newal Cost				TOP 5 MAJOR ELEMI	EN IS REQUIRING
ID Code	Element	Condition Grade	% Deterioration	0-20 20-4 %		60-80 %	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace	URGENT MAINTENANCE, REN	IEWAL OR REPLACEMENT
1.00	Total Sub-Structure	3	50%				0	0	0	0	332,619	0.0%	Element	Observed Deterioration/Recommendations
2.00	Total Frame	3	50%				0	0	0	0	495,437	0.0%	Liement	Observed Deterioration/Neconimendations
3.00	Total Structural Walls	3	50%				0	0	0	0	424,835	0.0%	Vinyl Floor Finishes	Evidence of water stains, lifting, marks, tears,
4.00	Total Upper Floors	0	0%				0	0	0	0	0	0.0%	· ·	worn through, etc.
5.00	Total Roof	4	70%				259,502	6,072	259,502	525,076	265,574	197.7%		
6.00	Total External Walls & Finishes	0	0%				0	0	0	0	0	0.0%		Evidence of impact damage, lifting tiles, loose
7.00	Total Windows & Doors	4	70%				0	77,418	223,905	301,323	301,323	100.0%		grout, marks, stains, generally unclean
A	TOTAL STRUCTURE	4	70%				259,502	83,490	483,407	826,399	1,819,789	45.4%		
8.00	Total Stairs Balustrades & Handrails	0	0%				0	0	0	0	0	0.0%		Stained tiles, stained grout, very unclean by appearance
9.00	Total Internal Walls/Partitions	0	0%				0	0	0	0	0	0.0%	'	арреагансе
10.00	Total Internal Doors	3	50%				0	0	69,828	69,828	69,828	100.0%		
11.00	Total Floor Finishes	5	90%				137,936	0	115,166	253,101	137,936	183.5%	Ÿ	Evidence of leaks internally and ponding on roof. Re-seal (or replace) and re-level roof
12.00	Total Wall Finishes	5	90%				36,432	101,307	0	137,739	137,739	100.0%		The Sear (of replace) and re-level roof
13.00	Total Ceiling Finishes	3	50%				0	93,964	0	93,964	93,964	100.0%	Timber Window Shutters	Evidence of decay, corroded fixings/hardware,
14.00	Total Fixed Joinery Units	3	50%				0	160,782	0	160,782	160,782	100.0%		poor workmanship, missing/detached shutters.
В	TOTAL INTERNAL FIT-OUT	4	70%				174,368	356,053	184,994	715,414	600,249	119.2%	1	Replace typhoon shutters.
15.00	Total Sanitary Plumbing	4	70%				91,080	0	0	91,080	91,080	100.0%		
16.00	Total Mechanical Services	1	10%				69,575	50,600	104,995	225,170	69,575	323.6%		Targeted regular maintenance and cleaning. Reseal or replace roofing and fix ponding issues
17.00	Total Fire Services	3	50%				31,321	0	31,321	62,643	31,321	200.0%		immediately. Replace typhoon shutters to rooms
18.00	Total Electrical Services	3	50%				0	277,769	0	277,769	277,769	100.0%	l l	used in emergencies. Upgrade toilet and sanitary
19.00	Total Vertical Transportation	0	0%				0	0	0	0	0	0.0%		plumbing facilities immediately (to prepare for
20.00	Total Special Services	3	50%				62,643	0	62,643	125,286	62,643	200.0%		use in emergencies). Refurbish floor and wall finishes by 2023. Regularly maintain and replace
С	TOTAL BUILDING SERVICES	3	50%				254,619	328,369	198,959	781,947	532,388	146.9%		sanitary plumbing, mechanical, fire and special
	TOTAL BUILDING	4	70%				688,489	767,912	867,360	2,323,761	2,952,425	78.7%		services by 2023.







B - STAFF HOUSING





-				_	Conditio	n Gauge		1						1	
												•			
		Condit	tion Grading	VG	G A	A P	VP		Asset Rei	newal Cost				Element	Observed Deterioration/Recommendations
ID Code	Element	Condition Grade	% Deterioration	0-20 %	20-40 40		-80 <mark>80-10</mark>	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace	Vinyl Floor Finishes	Evidence of water stains, lifting, marks, tears,
1.00	Total Sub-Structure	3	50%					0	0	0	0	85,279	0.0%	VIII FIOOI FIIIISHES	worn through, etc.
2.00	Total Frame	3	50%					0	0	0	0	140,444	0.0%		
3.00	Total Structural Walls	3	50%					0	0	0	0	46,269	0.0%	Tiled Floor Finishes	Stained appearance
4.00	Total Upper Floors	0	0%					0	0	0	0	0	0.0%		''
5.00	Total Roof	4	70%					56,687	0	0	56,687	56,687	100.0%	Tiled Wall Finishes	Stained appearance
6.00	Total External Walls & Finishes	3	50%					0	0	26,604	26,604	26,604	100.0%		
7.00	Total Windows & Doors	4	70%					0	13,836	43,377	57,213	57,213	100.0%	Air-Conditioning – Window Mounted Unit	Evidence of corrosion and grit
Α	TOTAL STRUCTURE	4	70%					56,687	13,836	69,981	140,505	412,496	34.1%	7 th Containering Window Wounted Crit	Evidence of confedient and grit
8.00	Total Stairs Balustrades & Handrails	0	0%					0	0	0	0	0	0.0%	Profiled Metal Sheet Roof Cladding (Pre-Finished	Evidence of leaks internally, flaking of protective
9.00	Total Internal Walls/Partitions	3	50%					0	0	0	0	15,677	0.0%	Fromed Metal Sheet Roof Cladding (Fre-Finished	,
10.00	Total Internal Doors	3	50%					0	0	15,180	15,180	15,180	100.0%		coating or corrosion
11.00	Total Floor Finishes	5	90%					30,270	0	24,216	54,487	30,270	180.0%	0 B	Tanakada ayada ayada ka ayada la ay'a a
12.00	Total Wall Finishes	4	70%					44,440	19,664	28,046	92,150	64,105	143.8%	Overall Recommendation/Action	Targeted regular maintenance and cleaning. Repair roof leaks immediately. Treat and spot
13.00	Total Ceiling Finishes	3	50%					0	0	53,866	53,866	53,866	100.0%		prime rusted roofing immediately. Review roof
14.00	Total Fixed Joinery Units	3	50%					37,950	15,054	380	53,383	53,383	100.0%		and replace by 2023. Replace roof before 2023.
В	TOTAL INTERNAL FIT-OUT	4	70%					112,661	34,718	121,688	269,067	232,481	115.7%		Refurbish floor and wall finishes by 2023.
15.00	Total Sanitary Plumbing	4	70%					24,668	0	0	24,668	24,668	100.0%		Regularly maintain and replace sanitary
16.00	Total Mechanical Services	4	70%					29,095	20,240	20,240	69,575	20,240	343.8%		plumbing, mechanical, fire and special services
17.00	Total Fire Services	5	90%					5,045	0	5,045	10,090	5,045	200.0%		by 2023.
18.00	Total Electrical Services	3	50%					0	31,134	22,770	53,904	53,904	100.0%		
19.00	Total Vertical Transportation	0	0%					0	0	0	0	0	0.0%	1	
20.00	Total Special Services	3	50%					3,363	0	3,363	6,727	3,363	200.0%	1	
С	TOTAL BUILDING SERVICES	4	70%					62,171	51,374	51,418	164,963	107,220	153.9%	1	
	TOTAL BUILDING	4	70%					231,519	99,928	243,088	574,534	752,197	76.4%	1	







C - CLASSROOMS, LIBRARY & SHOPS





				Co	ondition G	auge								
		Condi	tion Grading	VG G	A	P VP		Asset Rei	newal Cost				TOP 5 MAJOR ELE	MENTS REQUIRING
ID Code	Element	Condition Grade	% Deterioration	0-20 20-4 %	40 40-60 %	60-80 % 80-10 %	0 Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace	URGENT MAINTENANCE, R	ENEWAL OR REPLACEMENT
1.00	Total Sub-Structure	3	50%				0	0	0	0	156,199	0.0%	Element	Observed Deterioration/Recommendations
2.00	Total Frame	3	50%				0	0	0	0	193,308	0.0%		
3.00	Total Structural Walls	4	70%				49,386	0	0	49,386	206,954	23.9%	Reinforced Concrete Block Masonry Walls with	Evidence of cracking, settlement
4.00	Total Upper Floors	2	30%				0	0	0	0	12,650	0.0%	Painted Finishes - Externally (Poor Areas - 40%)	5 ,
5.00	Total Roof	4	70%				100,520	3,036	100,520	204,076	103,556	197.1%		
6.00	Total External Walls & Finishes	0	0%				0	0	0	0	0	0.0%	Membrane Roof Cladding	Evidence of leaks internally, tearing of membrane
7.00	Total Windows & Doors	3	50%				0	0	198,807	198,807	198,807	100.0%		or detachment. Re-seal or replace membrane to concrete roof. Replace corroded roof to
A	TOTAL STRUCTURE	4	70%				149,906	3,036	299,327	452,269	871,474	51.9%		Seaman's shelter
8.00	Total Stairs Balustrades & Handrails	2	30%				0	0	0	0	4,048	0.0%		
9.00	Total Internal Walls/Partitions	3	50%				0	0	0	0	7,377	0.0%	Vinyl Floor Finishes	Evidence of water stains, lifting, marks, tears,
10.00	Total Internal Doors	3	50%				0	0	21,252	21,252	21,252	100.0%		worn through, etc.
11.00	Total Floor Finishes	4	70%				25,123	0	23,074	48,197	25,123	191.8%	Tiled Floor and Wall Finishes	Tired and stained grout; unclean by appearance
12.00	Total Wall Finishes	4	70%				4,099	0	11,066	15,165	15,165	100.0%	Theu Floor and Wall Fillisties	Theu and stained grout, unclean by appearance
13.00	Total Ceiling Finishes	3	50%				0	10,930	13,061	23,991	23,991	100.0%	Mechanical Services	4No. fan coil units require immediate
14.00	Total Fixed Joinery Units	3	50%				1,012	37,950	6,705	45,667	44,655	102.3%	- 1100 na 1100 n	replacement.
В	TOTAL INTERNAL FIT-OUT	4	70%				30,234	48,880	75,157	154,271	141,610	108.9%		
15.00	Total Sanitary Plumbing	3	50%				0	6,009	0	6,009	6,009	100.0%	Overall Recommendation/Action	Targeted regular maintenance and cleaning. Re-
16.00	Total Mechanical Services	2	30%				61,985	30,993	30,993	123,970	30,993	400.0%		seal or replace membrane roof areas. Replace rusted roof to Seaman's shelter immediately.
17.00	Total Fire Services	0	0%				0	6,189	0	6,189	6,189	100.0%		Refurbish floor and wall finishes by 2023.
18.00	Total Electrical Services	3	50%				0	148,587	0	148,587	148,587	100.0%		Regularly maintain and replace mechanical and
19.00	Total Vertical Transportation	0	0%				0	0	0	0	0	0.0%		special services by 2023 (4No. fan coil units require immediate replacement).
20.00	Total Special Services	3	50%				24,756	0	24,756	49,512	24,756	200.0%		require infinediate replacements.
С	TOTAL BUILDING SERVICES	3	50%				86,741	191,777	55,749	334,267	216,533	154.4%		
	TOTAL BUILDING	3	50%				266,880	243,693	430,233	940,806	1,229,618	76.5%		







D - MAINTENANCE





				С	Condition G	auge								ATALTA DEGLUDINA
		Condit	ion Grading	VG G	G A	Р	Р	Asset Re	newal Cost]		TOP 5 MAJOR ELEI	MENTS REQUIRING
ID Code	Element	Condition Grade	% Deterioration	0-20 20- %	-40 40-60 %	60-80 %	100 Year 1-1 6 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace	URGENT MAINTENANCE, RE	NEWAL OR REPLACEMENT
1.00	Total Sub-Structure	3	50%				0	0	0	0	9,563	0.0%	Element	Observed Deterioration/Recommendations
2.00	Total Frame	3	50%				0	0	0	0	6,831	0.0%	Liement	Observed Deterioration//tecommendations
3.00	Total Structural Walls	0	0%				0	0	0	0	0	0.0%	Profiled Metal Sheet Roof Cladding (Pre-Finished)	Evidence of corrosion. Treat rust, repaint and
4.00	Total Upper Floors	0	0%				0	0	0	0	0	0.0%	g (clean regularly
5.00	Total Roof	4	70%				6,831	0	0	6,831	6,831	100.0%		
6.00	Total External Walls & Finishes	4	70%				8,197	0	0	8,197	8,197	100.0%	Metal Gutters	Evidence of corrosion. Rust treat and repaint.
7.00	Total Windows & Doors	3	50%				0	0	12,524	12,524	12,524	100.0%		Repair sections of gutter as needed.
Α	TOTAL STRUCTURE	4	70%				15,028	0	12,524	27,552	43,946	62.7%	Metal Down Pipes	Evidence of corrosion. Replace as necessary
8.00	Total Stairs Balustrades & Handrails	0	0%				0	0	0	0	0	0.0%	ililetal Down Fipes	Evidence of corrosion. Replace as necessary
9.00	Total Internal Walls/Partitions	3	50%				0	0	0	0	2,186	0.0%	Profiled Metal Sheet Wall Cladding (Pre-Finished)	Evidence of corrosion and rusted out areas.
10.00	Total Internal Doors	3	50%				0	0	1,518	1,518	1,518	100.0%		Patch and repair
11.00	Total Floor Finishes	0	0%				0	0	0	0	0	0.0%		
12.00	Total Wall Finishes	3	50%				0	0	4,645	4,645	4,645	100.0%		
13.00	Total Ceiling Finishes	3	50%				0	740	0	740	740	100.0%	Air-Conditioning - DX/Split System	Evidence of Corrosion on Condenser unit.
14.00	Total Fixed Joinery Units	3	50%				0	4,428	0	4,428	4,428	100.0%		Assumed functioning. Check, clean and service regularly
В	TOTAL INTERNAL FIT-OUT	3	50%				0	5,168	6,163	11,331	13,517	83.8%		regularly
15.00	Total Sanitary Plumbing	3	50%				0	1,265	0	1,265	1,265	100.0%	Overall Recommendation/Action	Targeted regular maintenance and cleaning.
16.00	Total Mechanical Services	4	70%				8,855	4,428	4,428	17,710	4,428	400.0%	1	Targeted replacement of rusted roofing and
17.00	Total Fire Services	0	0%				0	0	0	0	0	0.0%	1	cladding immediately. Replace roof and wall
18.00	Total Electrical Services	3	50%				0	7,362	0	7,362	7,362	100.0%	1	cladding by 2023. Regularly maintain and replace mechanical by 2023
19.00	Total Vertical Transportation	0	0%				0	0	0	0	0	0.0%	1	
20.00	Total Special Services	3	50%				633	0	633	1,265	633	200.0%	1	
С	TOTAL BUILDING SERVICES	4	70%				9,488	13,055	5,060	27,602	13,687	201.7%	1	
	TOTAL BUILDING	4	70%				24,516	18,222	23,747	66,485	71,150	93.4%	1	







E - SHOWER HOUSE





				Co	naition G	auge						_		TOP 5 MAJOR ELEI	MENTS DECLUDING
		Condit	ion Grading	VG G	Α	P	VP		Asset Ren	ewal Cost				TOP 5 MAJOR ELEI	WEN 15 REQUIRING
ID Code	Element	Condition Grade	% Deterioration	0-20 20-4 % %		60-80 %		ar 1-10 'otal	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace	URGENT MAINTENANCE, RE	NEWAL OR REPLACEMENT
1.00	Total Sub-Structure	3	50%					0	0	0	0	10,525	0.0%	- Element	Observed Deterioration/Recommendations
2.00	Total Frame	3	50%					0	0	7,558	7,558	13,706	55.1%	Element	Observed Deterioration/Recommendations
3.00	Total Structural Walls	3	50%					0	0	0	0	20,038	0.0%	Timber Door - Single	Evidence of impact damage, marks, etc.
4.00	Total Upper Floors	0	0%					0	0	0	0	0	0.0%	3	3 2, 22, 23, 23
5.00	Total Roof	3	50%					0	7,558	0	7,558	7,558	100.0%		
6.00	Total External Walls & Finishes	3	50%					0	0	7,681	7,681	7,681	100.0%	1	
7.00	Total Windows & Doors	0	0%					0	0	0	0	0	0.0%	Tiled Floor Finishes	Odd missing tile, generally untidy/unclean by
A	TOTAL STRUCTURE	3	50%					0	7,558	15,240	22,798	59,508	38.3%		appearance
8.00	Total Stairs Balustrades & Handrails	0	0%					0	0	0	0	0	0.0%		
9.00	Total Internal Walls/Partitions	0	0%					0	0	0	0	0	0.0%	Tiled Wall Finishes	Odd missing tile, generally untidy/unclean by
10.00	Total Internal Doors	4	70%					0	3,036	0	3,036	3,036	100.0%		appearance
11.00	Total Floor Finishes	4	70%				7	,286	0	0	7,286	7,286	100.0%		
12.00	Total Wall Finishes	4	70%				2	1,149	0	6,394	27,543	21,149	130.2%	1	
13.00	Total Ceiling Finishes	0	0%					0	0	0	0	0	0.0%	Timber Frame (Truss)	Evidence of decay
14.00	Total Fixed Joinery Units	0	0%					0	0	0	0	0	0.0%		
В	TOTAL INTERNAL FIT-OUT	4	70%				2	8,435	3,036	6,394	37,865	31,471	120.3%		
15.00	Total Sanitary Plumbing	3	50%					0	13,283	11,259	24,541	24,541	100.0%	Profiled Metal Sheet Roof Cladding (Pre-Finished)	Debris on roof, protective coating is fading
16.00	Total Mechanical Services	0	0%					0	0	0	0	0	0.0%	1	
17.00	Total Fire Services	0	0%					0	0	0	0	0	0.0%	1	
18.00	Total Electrical Services	3	50%					0	810	0	810	810	100.0%	 	
19.00	Total Vertical Transportation	0	0%					0	0	0	0	0	0.0%	Overall Recommendation/Action	Targeted regular maintenance and cleaning. Replace decaying timber work immediately.
20.00	Total Special Services	0	0%					0	0	0	0	0	0.0%	1	Refurbish floor and wall finishes by 2023.
С	TOTAL BUILDING SERVICES	3	50%					0	14,092	11,259	25,351	25,351	100.0%	1	
	TOTAL BUILDING	4	70%				2	8,435	24,687	32,892	86,014	116,330	73.9%		







F - SECURITY POST





					Condition G	Bauge								
		Condit	ion Grading	VG	G A	PV	P	Asset Re	newal Cost]		TOP 5 MAJOR ELE	MENTS REQUIRING
ID Code	Element	Condition Grade	% Deterioration	0-20 %	20-40 40-60 %	60-80 80- %	Year 1-1 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace	URGENT MAINTENANCE, RE	ENEWAL OR REPLACEMENT
1.00	Total Sub-Structure	3	50%				0	0	0	0	6,736	0.0%	,	
2.00	Total Frame	3	50%				0	0	4,591	4,591	4,591	100.0%	Element	Observed Deterioration/Recommendations
3.00	Total Structural Walls	3	50%				0	0	0	0	8,516	0.0%		
4.00	Total Upper Floors	0	0%				0	0	0	0	0	0.0%	Profiled Metal Sheet Roof Cladding (Pre-Finished)	Evidence severe corrosion, hurricane damage, etc.
5.00	Total Roof	5	90%				4,591	0	0	4,591	4,591	100.0%		etc.
6.00	Total External Walls & Finishes	0	0%				0	0	0	0	0	0.0%		
7.00	Total Windows & Doors	4	70%				0	11,833	0	11,833	11,833	100.0%	Vinyl Floor Finishes	Evidence marks, tears, worn through, etc.
A	TOTAL STRUCTURE	4	70%				4,591	11,833	4,591	21,015	36,267	57.9%		
8.00	Total Stairs Balustrades & Handrails	0	0%				0	0	0	0	0	0.0%		
9.00	Total Internal Walls/Partitions	0	0%				0	0	0	0	0	0.0%		
10.00	Total Internal Doors	0	0%				0	0	0	0	0	0.0%	Timber/Metal Framed Windows & Doors	Evidence of decay and corrosion
11.00	Total Floor Finishes	5	90%				1,771	0	1,771	3,542	1,771	200.0%		
12.00	Total Wall Finishes	0	0%				0	0	0	Ö	0	0.0%		
13.00	Total Ceiling Finishes	3	50%				0	2,103	0	2,103	2,103	100.0%		
14.00	Total Fixed Joinery Units	4	70%				9,488	1,265	0	10,753	10,753	100.0%	Metal Security Screens	Evidence of corrosion
В	TOTAL INTERNAL FIT-OUT	4	70%				11,259	3,368	1,771	16,398	14,627	112.1%		
15.00	Total Sanitary Plumbing	0	0%				0	0	0	0	0	0.0%		
16.00	Total Mechanical Services	0	0%				0	0	0	0	0	0.0%	Security Booth	Outdoors, tired but OK (serves purpose)
17.00	Total Fire Services	0	0%				0	0	0	0	0	0.0%	1	
18.00	Total Electrical Services	3	50%				0	2,815	0	2,815	2,815	100.0%	1	
19.00	Total Vertical Transportation	0	0%				0	0	0	0	0	0.0%	 	
20.00	Total Special Services	3	50%				1,265	0	1,265	2,530	1,265	200.0%	Overall Recommendation/Action	Targeted regular maintenance and cleaning.
С	TOTAL BUILDING SERVICES	3	50%				1,265	2,815	1,265	5,345	4,080	131.0%	1	Replace roof and refurbish joinery and internal finishes 2023
	TOTAL BUILDING	4	70%				17,115	18,015	7,627	42,757	54,973	77.8%		11110100 2020



FSM	-FMI (FISHERIES & MAR	RITIME INS	TITUT	ΓE),	GAGI	L, Y	AP S	TATE				S	ITE INF	RASTRUCTURE	
		Condition	Grading	VG	Conditio	n Gauge			Asset Ren	ewal Cost]			ELEMENTS REQUIRING E, RENEWAL OR REPLACEMENT
															-,
ID Code	Element	Condition Grade	% Deter.	0-20 %		.60 60- % %		Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Total	Full Replace	% Full Replace	Element	Observed Deterioration/Recommendations
1.00	Total Roading	4	70%					3,036	3,036	1,518	7,590	1,518	500.0%	Gravel roads	Trim and grade gravel roads to falls, fill pot holes and ruts
2.00	Total Car Parks	4	70%					3,036	3,036	1,518	7,590	1,518	500.0%		noies and ruis
3.00	Total Foot Paths & Collection Areas	3	50%					0	0	0	0	49,783	0.0%	Drainage	Monitor and clean swales, sumps and septic
4.00	Total Fences & Gates	5	90%					10,626	0	0	10,626	10,626	100.0%		tanks. Underground pipework not assessed.
5.00	Total Structures	5	90%					170,775	398,020	0	568,795	568,795	100.0%	Fencing	Mesh to basketball court missing - replace
6.00	Total Retaining Walls	0	0%					0	0	0	0	0	0.0%		
7.00	Site Drainage	3	50%					18,975	12,650	93,610	125,235	99,935	125.3%		
8.00	Total Electrical Infrastructure	3	50%					0	490,820	0	490,820	490,820	100.0%		
9.00	Total Water Services	3	50%					3,163	0	61,353	64,515	61,353	105.2%		
10.00	Total Site Furniture	3	50%					0	12,650	0	12,650	12,650	100.0%	Overall Recommendation/Action	Targeted regular maintenance and cleaning to
	TOTAL SITE INFRASTRUCTURE							209,611	920,212	157,999	1,287,821	1,296,997	99.3%		extend asset life.



Appendix C
Indicative Asset Renewal and
Maintenance Cost Plan



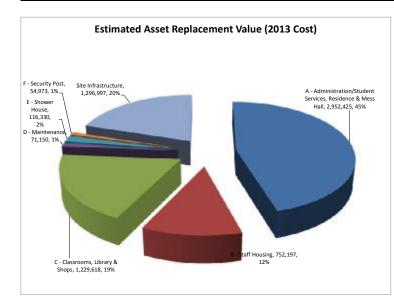
COLLEGE OF MICRONESIA - FSM

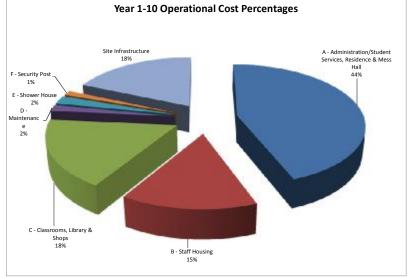
FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE SUMMARY OF COST OF ASSET RENEWAL AND MAINTENANCE

DOCUMENT: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



									Renewal Cost vs Full ment Cost	Replace	Renewal Cost vs Full ement Cost		ewal vs Full Replacement ost				0	perational Cost (Cost of	Renewal and Maintenance	e)	
		Condition Grade	Key N	letric Data		Replacement	Cost	Year 1 - 10 Asset Renewal Cost	% of Full Replacement Cost	Year 11 - 20 Asset Renewal Cost	% of Full Replacement Cost	Year 21 - 30 Asset Renewal Cost	% of Full Replacement Cost	Total 30 Year Asset Renewal Cost	% of Full Replacement Cost	Annualised Asset Renewal Cost	Annualised Maintenance Cost	Annualised Total Operational Cost	Total Year 1-10 Operational Cost (\$USD)	Total Year 11-20 Operational Cost (\$USD)	Total Year 21-30 Operational Cost (\$US
ef	Asset Description	Rank 1 - 5	GFA (ft2)	GFA (m2)	Build Rate (ft2)	Build Rate (m2)	Cost (\$ USD)	(\$ USD)		(\$ USD)		(\$ USD)		(\$ USD)							
00	A - Administration/Student Services, Residence & Mess Hall	4	13,326	1,238	222	2,385	2,952,425	688,489	23%	767,912	26%	867,360	29%	2,323,761	79%	77,459	15,944	93,403	847,932	927,355	1,026,803
00	B - Staff Housing	4	2,862	266	263	2,829	752,197	231,519	31%	99,928	13%	243,088	32%	574,534	76%	19,151	4,523	23,674	276,747	145,156	288,316
00	C - Classrooms, Library & Shops	3	5,266	489	233	2,513	1,229,618	266,880	22%	243,693	20%	430,233	35%	940,806	77%	31,360	7,330	38,690	340,176	316,988	503,529
00	D - Maintenance	4	388	36	184	1,976	71,150	24,516	34%	18,222	26%	23,747	33%	66,485	93%	2,216	745	2,961	31,969	25,675	31,200
00	E - Shower House	4	344	32	338	3,635	116,330	28,435	24%	24,687	21%	32,892	28%	86,014	74%	2,867	1,374	4,242	42,180	38,431	46,636
00	F - Security Post	4	188	18	292	3,141	54,973	17,115	31%	18,015	33%	7,627	14%	42,757	78%	1,425	724	2,149	24,353	25,254	14,866
00	Site Infrastructure				1/		1,296,997	209,611	16%	920,212	71%	157,999	12%	1,287,821	99%	42,927	14,302	57,230	352,632	1,063,233	301,020
	TOTALS EXCLUDING ESCALATION		22,374	2,079			6,473,690	1,466,564	23%	2,092,668	32%	1,762,945	27%	5,322,178	82%	177,406	44,942	222,348	1,915,988	2,542,092	2,212,369
	Escalation Allowance							348,095		1,511,599		2,344,760		4,204,454		140,148	78,661	218,810	1,134,707	2,298,210	3,131,371
	TOTALS INCLUDING ESCALATION (3.4% per annum assumed)							1,814,659		3,604,267		4,107,705		9,526,631		317,554	123,604	441,158	3,050,695	4,840,302	5,343,741





Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

ASSET RENEWAL DETAILED EXPENDITURE

DOCUMENT CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1
Ref	Asset Description	Cost Split Summary	2013 (\$ USD)	2014 (\$ USD)	2015 (\$ USD)	2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	2023 (\$ USD)	2024 (\$ USD)	2025 (\$ USD)	2026 (S USD)	2027 (\$ USD)	2028 (\$ USD)	2029 (\$ USD)	2030	2031 (\$ USD)	2032 (\$ USD)	2033 (\$ USD)	2034 (\$ USD)	2035 (\$ USD)	2036 (\$ USD)	2037 (\$ USD)	2038 (\$ USD)	2039	2040	2041 (\$ USD)	2042 (\$ USD)	Total
1.00	A - Administration/Student Services Residence & Mess Hall	, Annual Asset Renewal Cost	0	115,166		0	0	259,502		0	91,080	128,119	0	0	0	35,420	439,543	0	0	0	0	292,949	35,420	115,166	0	0	293,733	259,502	0	35,420	0		
	Tiosidones a moss riam	Year 1 - 10 Asset Renewal Cost		•			688	3,489					-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Year 11 - 20 Asset Renewal Cost	-	-	-		-	-	-	-	-	-			•		767	,912					-	-	-	-	-	-	-	-	-	-	-
		Year 21 - 30 Asset Renewal Cost	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-	-			•		86	7,360					-
2.00	B - Staff Housing	Annual Asset Renewal Cost	3,795	29,261	36,996	0	1,898	0	0	0	119,305	40,264	3,795	0	5,693	0	50,451	0	8,855	0	0	31,134	4,175	29,261	5,693	8,855	140,925	0	0	22,770	0	31,409	574,534
		Year 1 - 10 Asset Renewal Cost		_			23	1,519					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 -	
		Year 11 - 20 Asset Renewal Cost	-	-	-	-	-	-	-	-	-	-					99	,928					-	-	-	-	-	-	-	-	-	-	
		Year 21 - 30 Asset Renewal Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		ı			24	3,088			Д	4	
.00	C - Classrooms, Library & Shops	Annual Asset Renewal Cost	0	119,950	30,993	0	0	0	0	1,012	6,148	108,777	0	0	0	0	57,924	0	30,993	0	0	154,776	5,693	119,950	1,012	30,993	244,187	0	0	0	0	28,399	940,800
		Year 1 - 10 Asset Renewal Cost			·		266	5,880					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Year 11 - 20 Asset Renewal Cost	-	-	-	-	-	-	-	-	-	-					243	3,693					-	-	-	-	-	-	-	-	-	-	
		Year 21 - 30 Asset Renewal Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					43	0,233		-			
.00	D - Maintenance	Annual Asset Renewal Cost	0	0	4,428	0	0	0	0	0	15,028	5,060	0	0	0	0	6,433	0	4,428	0	0	7,362	0	0	0	4,428	18,687	0	0	0	0	633	66,485
		Year 1 - 10 Asset Renewal Cost					24	,516					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Year 11 - 20 Asset Renewal Cost	-	-	-	-	-	-	-	-	-	-					18	,222					-	-	-	-	-	-	-	-	-	-	
		Year 21 - 30 Asset Renewal Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					23	3,747					
.00	E - Shower House	Annual Asset Renewal Cost	0	0	0	0	0	0	0	0	22,041	6,394	0	0	0	0	23,877	0	0	0	0	810	11,259	0	0	0	15,240	0	0	0	0	6,394	86,014
		Year 1 - 10 Asset Renewal Cost					28	,435		l			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Year 11 - 20 Asset Renewal Cost	-	-	-	-	-		-	-	-	-					24	,687					-	-	-	-	-	-	-	-	-	 -	
		Year 21 - 30 Asset Renewal Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					32	2,892					
.00	F - Security Post	Annual Asset Renewal Cost	0	1,771	4,591	0	0	0	0	0	9,488	1,265	0	0	0	0	15,201	0	0	0	0	2,815	0	1,771	0	0	4,591	0	0	0	0	1,265	42,757
		Year 1 - 10 Asset Renewal Cost					17	,115					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Year 11 - 20 Asset Renewal Cost	-	-	-	-	-		-	-	-	-					18	,015					-	-	-	-	-	-	-	-	-	-	
		Year 21 - 30 Asset Renewal Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					7	,627					
.00	Site Infrastructure	Annual Asset Renewal Cost	0	3,036	0	0	194,051	0	3,036	0	0	9,488	0	3,036	0	0	914,140	0	3,036	0	0	0	0	3,036	0	0	145,475	0	0	0	0	9,488	1,287,82
		Year 1 - 10 Asset Renewal Cost					209	9,611					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Year 11 - 20 Asset Renewal Cost	-		-		-		-	-	-	-					920),212					-	-	-	-	-	-	-	-	-	-	
		Year 21 - 30 Asset Renewal Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					15	7,999					
	Total Campus Annual Asset Rene	wal Cost (Excluding Escalation)	3,795	269,184	136,209	0	195,949	259,502	38,456	1,012	263,090	299,367	3,795	3,036	5,693	35,420	1,507,569	0	47,311	0	0	489,845	56,546	269,184	6,705	44,275	862,837	259,502	0	58,190	0	205,707	5,322,1
	Year 1 - 10 Asset Renewal Cost (E	Excluding Escalation)					1,46	66,564					-	-	-	1 -	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Year 11 - 20 Asset Renewal Cost	(Excluding Escalation)	-	-	1 -		-	Τ.	T -	-		-					2,09	2,668					-	-	-	-	-	-	-	-	-	-	-
	Year 21 - 30 Asset Renewal Cost	(Excluding Escalation)	-	-	-	-	-	-	-	-	-	-	-		-	-	1 -		-	-		-					1,76	62,945					-
	Total Campus Annual Asset Rene	wal Cost (Including Escalation)	3,924	287,800	150,580	0	231,603	317,150	48,597	1,322	355,458	418,225	5,482	4,535	8,792	56,563	2,489,346	0	83,524	0	0	956,025	114,111	561,697	14,466	98,776	1,990,409	618,978	0	148,396	0	560,873	9,526,6
	Year 1 - 10 Asset Renewal Cost (I	ncluding Escalation)					1,81	14,659					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Year 11 - 20 Asset Renewal Cost	(Including Escalation)	-	T -	1 -	1 -	T -	T -	·	-	-	-					3,60	4,267					-	-	-	-	-	-	-	-	-		-
	Year 21 - 30 Asset Renewal Cost	(Including Escalation)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-					4,10	07,705	_	_		_	-
																											7,10	-,					

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

SUMMARY OF BUILDING & ELEMENT RENEWAL COSTS

DOCUMENT: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



			Sub-Structure	Frame	Structural Walls	Upper Floors	Roof	External Walls & Finishes	Windows & Doors	Structure	Stairs Balus. & Handrails	Internal Walls & Partitions	Internal Doors	Floor Finishes	Wall Finishes	Ceiling Finishes	Fixed Joinery Units	Internal Fit- Out	Sanitary Plumbing	Mech. Services	Fire Services	Electrical Services	Vertical Transport	Special Services	Building Services	Buildin
f E	Building	Cost Period			Trans			G 16.1.65	200.0		G Hanaiano						5	Jul		00.11000		00111000	runoport	00.11000	Corrido	
,	A - Administration/Student Services, Residence & Mess Hall	Year 1 - 10 Asset Renewal Cost (\$ USD)	0	0	0	0	259,502	0	0	259,502	0	0	0	137,936	36,432	0	0	174,368	91,080	69,575	31,321	0	0	62,643	254,619	688,48
		Year 11 - 20 Asset Renewal Cost (\$ USD)	0	0	0	0	6,072	0	77,418	83,490	0	0	0	0	101,307	93,964	160,782	356,053	0	50,600	0	277,769	0	0	328,369	767,9
		Year 21 - 30 Asset Renewal Cost (\$ USD)	0	0	0	0	259,502	0	223,905	483,407	0	0	69,828	115,166	0	0	0	184,994	0	104,995	31,321	0	0	62,643	198,959	867,3
		Total (\$ USD)	0	0	0	0	525,076	0	301,323	826,399	0	0	69,828	253,101	137,739	93,964	160,782	715,414	91,080	225,170	62,643	277,769	0	125,286	781,947	2,323,
E	B - Staff Housing	Year 1 - 10 Asset Renewal Cost (\$ USD)	0	0	0	0	56,687	0	0	56,687	0	0	0	30,270	44,440	0	37,950	112,661	24,668	29,095	5,045	0	0	3,363	62,171	231,
		Year 11 - 20 Asset Renewal Cost (\$ USD)	0	0	0	0	0	0	13,836	13,836	0	0	0	0	19,664	0	15,054	34,718	0	20,240	0	31,134	0	0	51,374	99,
		Year 21 - 30 Asset Renewal Cost (\$ USD)	0	0	0	0	0	26,604	43,377	69,981	0	0	15,180	24,216	28,046	53,866	380	121,688	0	20,240	5,045	22,770	0	3,363	51,418	243,
		Total (\$ USD)	0	0	0	0	56,687	26,604	57,213	140,505	0	0	15,180	54,487	92,150	53,866	53,383	269,067	24,668	69,575	10,090	53,904	0	6,727	164,963	574,
(C - Classrooms, Library & Shops	Year 1 - 10 Asset Renewal Cost (\$ USD)	0	0	49,386	0	100,520	0	0	149,906	0	0	0	25,123	4,099	0	1,012	30,234	0	61,985	0	0	0	24,756	86,741	266,
		Year 11 - 20 Asset Renewal Cost (\$ USD)	0	0	0	0	3,036	0	0	3,036	0	0	0	0	0	10,930	37,950	48,880	6,009	30,993	6,189	148,587	0	0	191,777	243,
		Year 21 - 30 Asset Renewal Cost (\$ USD)	0	0	0	0	100,520	0	198,807	299,327	0	0	21,252	23,074	11,066	13,061	6,705	75,157	0	30,993	0	0	0	24,756	55,749	430
		Total (\$ USD)	0	0	49,386	0	204,076	0	198,807	452,269	0	0	21,252	48,197	15,165	23,991	45,667	154,271	6,009	123,970	6,189	148,587	0	49,512	334,267	940
[D - Maintenance	Year 1 - 10 Asset Renewal Cost (\$ USD)	0	0	0	0	6,831	8,197	0	15,028	0	0	0	0	0	0	0	0	0	8,855	0	0	0	633	9,488	24,
		Year 11 - 20 Asset Renewal Cost (\$ USD)	0	0	0	0	0	0	0	0	0	0	0	0	0	740	4,428	5,168	1,265	4,428	0	7,362	0	0	13,055	18,
		Year 21 - 30 Asset Renewal Cost (\$ USD)	0	0	0	0	0	0	12,524	12,524	0	0	1,518	0	4,645	0	0	6,163	0	4,428	0	0	0	633	5,060	23,
		Total (\$ USD)	0	0	0	0	6,831	8,197	12,524	27,552	0	0	1,518	0	4,645	740	4,428	11,331	1,265	17,710	0	7,362	0	1,265	27,602	66,4
E	E - Shower House	Year 1 - 10 Asset Renewal Cost (\$ USD)	0	0	0	0	0	0	0	0	0	0	0	7,286	21,149	0	0	28,435	0	0	0	0	0	0	0	28,
		Year 11 - 20 Asset Renewal Cost (\$ USD)	0	0	0	0	7,558	0	0	7,558	0	0	3,036	0	0	0	0	3,036	13,283	0	0	810	0	0	14,092	24,0
		Year 21 - 30 Asset Renewal Cost (\$ USD)	0	7,558	0	0	0	7,681	0	15,240	0	0	0	0	6,394	0	0	6,394	11,259	0	0	0	0	0	11,259	32,8
		Total (\$ USD)	0	7,558	0	0	7,558	7,681	0	22,798	0	0	3,036	7,286	27,543	0	0	37,865	24,541	0	0	810	0	0	25,351	86,0
F	F - Security Post	Year 1 - 10 Asset Renewal Cost (\$ USD)	0	0	0	0	4,591	0	0	4,591	0	0	0	1,771	0	0	9,488	11,259	0	0	0	0	0	1,265	1,265	17,1
		Year 11 - 20 Asset Renewal Cost (\$ USD)	0	0	0	0	0	0	11,833	11,833	0	0	0	0	0	2,103	1,265	3,368	0	0	0	2,815	0	0	2,815	18,0
		Year 21 - 30 Asset Renewal Cost (\$ USD)	0	4,591	0	0	0	0	0	4,591	0	0	0	1,771	0	0	0	1,771	0	0	0	0	0	1,265	1,265	7,6
		Total (\$ USD)	0	4,591	0	0	4,591	0	11,833	21,015	0	0	0	3,542	0	2,103	10,753	16,398	0	0	0	2,815	0	2,530	5,345	42,
		Total - Year 1 - 10 Asset Renewal Cost (\$ USD)	0	0	49,386	0	428,131	8,197	0	485,714	0	0	0	202,386	106,120	0	48,450	356,956	115,748	169,510	36,366	0	0	92,660	414,284	1,25
		Total - Year 11 - 20 Asset Renewal Cost (\$ USD)	0	0	0	0	16,666	0	103,087	119,754	0	0	3,036	0	120,972	107,737	219,478	451,222	20,556	106,260	6,189	468,476	0	0	601,481	1,172
		Total - Year 21 - 30 Asset Renewal Cost (\$ USD)	0	12,150	0	0	360,022	34,286	478,613	885,070	0	0	107,778	164,227	50,151	66,927	7,084	396,167	11,259	160,655	36,366	22,770	0	92,660	323,710	1,60
		Grand Total (\$ USD)	0	12,150	49,386	0	804,820	42,483	581,700	1,490,538	0	0	110,814	366,613	277,242	174,664	275,011	1,204,345	147,562	436,425	78,922	491,246	0	185,319	1,339,474	4,034

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

SUMMARY OF SITE INFRASTRUCTURE RENEWAL COSTS

DOCUMENT CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



		Roading	Car Parks	Foot Paths & Circulation Areas	Fences & Gates	Structures	Retaining Walls	Site Drainage	Electrical Infrastructure	Water Services	Site Furniture	Total
f Building	Cost Period											
Site Infrastructure	Year 1 - 10 Asset Renewal Cost (\$ USD)	3,036	3,036	0	10,626	170,775	0	18,975	0	3,163	0	209,611
	Year 11 - 20 Asset Renewal Cost (\$ USD)	3,036	3,036	0	0	398,020	0	12,650	490,820	0	12,650	920,212
	Year 21 - 30 Asset Renewal Cost (\$ USD)	1,518	1,518	0	0	0	0	93,610	0	61,353	0	157,999
	Total (\$ USD)	7,590	7,590	0	10,626	568,795	0	125,235	490,820	64,515	12,650	1,287,821

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

SUMMARY OF BUILDING & ELEMENT CONDITION GRADES

DOCUMENT: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN

Audit Date: October 2013

Revision: Final



		Sub-Structure	Frame	Structural Walls	Upper Floors	Roof	External Walls & Finishes	Windows & Doors	Structure	Stairs Balus. & Handrails	Internal Walls & Partitions	Internal Doors	Floor Finishes	Wall Finishes	Ceiling Finishes	Fixed Joinery Units	Internal Fit-Out	Sanitary Plumbing	Mech. Services	Fire Services	Electrical Services	Vertical Transport	Special Services	Building Services	Building
Ref	Building	1		vvalis			& Fillishes	Doors		Halluralis	& Faithons				rillishes	Onits		Fidilibility	Services		Services	Transport	Services	Services	
1.00	A - Administration/Student Services, Residence & Mess Hall	3	3	3	0	4	0	4	4	0	0	3	5	5	3	3	4	4	1	3	3	0	3	3	4
2.00	B - Staff Housing	3	3	3	0	4	3	4	4	0	3	3	5	4	3	3	4	4	4	5	3	0	3	4	4
3.00	C - Classrooms, Library & Shops	3	3	4	2	4	0	3	4	2	3	3	4	4	3	3	4	3	2	0	3	0	3	3	3
4.00	D - Maintenance	3	3	0	0	4	4	3	4	0	3	3	0	3	3	3	3	3	4	0	3	0	3	4	4
5.00	E - Shower House	3	3	3	0	3	3	0	3	0	0	4	4	4	0	0	4	3	0	0	3	0	0	3	4
6.00	F - Security Post	3	3	3	0	5	0	4	4	0	0	0	5	0	3	4	4	0	0	0	3	0	3	3	4

Condition Grade O = N/A	Not present or not applicable
Condition Grade 1 = Very Good	The building/element is new and is functioning as required.
Condition Grade 2 = Good	The building/element is functioning as required.
Condition Grade 3 = Average	The building element is approaching the end of its serviceable life but is still functioning as required. Maintenance is required to extend serviceable life.
Condition Grade 4 = Poor	The building element is showing signs of failure and deterioration. Extensive maintenance is required or the item should be considered for replacement.
Condition Grade 5 = Very Poor	The building element has failed and has deteriorated significantly beyond the point of repair. The item must be replaced

FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

MAINTENANCE COST PLAN (BUILDINGS)

DOCUMENT: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN

Audit Date: October 2013

Revision: Final



											Element				Structure						Internal Fit-O	ut						Services				
											Maintenance Task	Building	External	Protective	Wall	Roof	Door &	Misc	Floor	Internal	Ceiling &	Internal	Misc	Fire	Mechanical	A/C	Hot Water	Electrical	Hydraulic	Comm.	Vertical	Misc
												Wash	Wall Painting	Coatings to Roof	Cladding Repairs	Cladding Repairs	Window Repairs	Repairs	Finishes Cleaning & Repairs	Wall Painting	Soffit Painting	Door Repairs	Repairs	Suppress. Detection & Alarm Systems	Ventillation	Systems	Generation	Services	Services	Systems	Transport	Repairs
											Unit	ft2	ft2	ft2	ft2	ft2	ft2	LS Allow	ft2	ft2	ft2	No.	LS Allow	ft2	LS Allow	No.	LS Allow	ft2	No.	LS Allow	LS Allow	LS Allow
Building		s Floor (GFA) m2	Externa Area (ft2		Roof A (RA) ft2			Window (DWA) m2		nal Wall a (IWA) m2	Rate/Cost (\$ USD) Frequency	0.01	0.65 5.00	7.00	1.00	0.05 1.00	1.00	250.00	1.00	0.56 12.00	0.65 12.00	25.00 1.00	250.00	1.00	1.00	50.00 0.50	500.00 1.00	1.00	25.00	250.00 1.00	2,500.00	250.00
A - Administration /		1,238			16,986				9,291		(Years)	27,965	10,979	16,986	10,979	16,986	2,196	3	13,326	29,562	0	46	3	13,326	1	16	0	13,326	32	3	0	3
Student Services, Residence & Mess Hall	,	,,	,	1,525	,	,,,,,,	_,		,		Total Cost Per	280	7,140	15,780	549	849	549	750	400	16,478	0	1,150	750	666	100	800	0	666	800	750	0	750
											Occurrence (\$ USD) Annualised Maint. Budget (\$ USD)	559	1,428	2,254	549	849	549	750	400	1,373	0	1,150	750	666	100	1,600	0	666	800	750	0	750
											<u></u>				6,939						3,673							5,333				
B - Staff Housing	2,862	266	2,461	229	3,870	360	492	46	2,223	207	Quantity	6,331	2,461	3,870	2,461	3,870	492	1	2,862	6,907	2,862	10	1	2,862	0	8	0	2,862	9	1	0	1
											Total Cost Per Occurrence (\$ USD) Annualised Maint.	63 127	1,600 320	3,595 514	123 123	193 193	123 123	250 250	86 86	3,850 321	1,861 155	250 250	250 250	143 143	0	400 800	0	143	225 225	250 250	0	250 250
											Budget (\$ USD)				1,650						1,062							1,811				
C - Classrooms, Library	5,266	489	5,253	488	6,579	611	1,051	98	4,598	427	Quantity	11,832	5,253	6,579	5,253	6,579	1,051	2	5,266	14,450	3,716	14	2	5,266	0	7	0	5,266	3	2	0	2
& Shops											Total Cost Per	118	3,416	6,113	263	329	263	500	158	8,054	2,417	350	500	263	0	350	0	263	75	500	0	500
											Annualised Maint. Budget (\$ USD)	237	683	873	263	329	263	500	158	671	201	350	500	263	0	700	0	263	75	500	0	500
															3,147						1,881							2,302				
D - Maintenance	388	36	775	72	388	36	164	15	310	29	Quantity Total Cost Per	1,163	775 504	388 360	775 39	388 19	164	0	388 12	1,395 778	0	1 25	0	0	0	50	0	388 19	0	0	0	1 250
											Occurrence (\$ USD) Annualised Maint.	23	101	51	39	19	41	0	12	65	0	25	0	0	0	100	0	19	0	0	0	250
						J			J	1	Budget (\$ USD)				275						101							369				
E - Shower House	344	32	568	53	643	60	0	0	284	26	Quantity	1,211	568	643	568	643	0	1	344	1,137	0	2	1	0	0	0	0	344	10	0	0	1
											Total Cost Per Occurrence (\$ USD) Annualised Maint.	12	370	598	28	32	0	250	10	634	0	50	250	0	0	0	0	17	250	0	0	250
											Budget (\$ USD)	24	74	85	28 494	32	0	250	10	53	363	50	250	0	0	U	0	17 517	250	0	0	250
F - Security Post	188	18	403	37	391	36	81	7	0	0	Quantity	793	403	391	403	391	81	0	188	403	188	0	1	0	0	0	0	188	0	0	0	1
											Total Cost Per	8	262	363	20	20	20	0	6	224	123	0	250	0	0	0	0	9	0	0	0	250
											Occurrence (\$ USD) Annualised Maint. Budget (\$ USD)	16	52	52	20	20	20	0	6	19	10	0	250	0	0	0	0	9	0	0	0	250
															180						285							259				
Total	22,374	2,079	20,439	1,899	28,856	2,681	3,983	370	16,707	1,552	Total Quantity Total Annualised Main	49,295 t. 986	20,439	28,856 3,830	20,439 1,022	28,856 1,443	3,983 996	7 1,750	22,374 671	53,853 2,502	6,767 367	73 1,825	2,000	21,454 1,073	100	3,200	0	22,374 1,119	1,350	1,500	0	9 2,250
											Budget (\$ USD)	500	2,000	0,000	12,684	1,440	000	1,700	0/1	2,002	7,364	1,020	2,000	1,070	100	0,200	V	10,591	1,000	1,000	Ů	2,200
											Labour Portion (%)	80%	50%	50%	60%	60%	50%	50%	80%	60%	60%	50%	50%	50%	70%	70%	70%	70%	70%	70%	40%	50%
											Labour Cost (\$ USD)	789	1,329	1,915	613	866	498	875	537	1,501	220	913	1,000	536	70	2,240	0	783	945	1,050	0	1,125
											Labour Hours (Based on \$3/Hour)	263	443	638	204	289	166	292	179	500	73	304	333	179	23	747	0	261	315	350	0	375
																														Number M (Base	Maintenance S ed on 1.800 He	taff Require ours/PA)
											Plant Portion (%)	10%	10%	10%	10%	10%	0%	0%	10%	10%	10%	0%	0%	0%	10%	10%	10%	10%	10%	0%	20%	0%
											Material Cost (\$ USD)	99	266	383	102	144	0	0	67	250	37	0	0	0	10	320	0	112	135	0	0	0
											Material Portion (%)	10%	40%	40%	30%	30%	50%	50%	10%	30%	30%	50%	50%	50%	20%	20%	20%	20%	20%	30%	40%	50%

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

MAINTENANCE COST PLAN (BUILDINGS)

DOCUMENT: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



Element				Structure					l	nternal Fit-Ou	ıt						Services				
Maintenance Task	Building Wash	External Wall Painting	Protective Coatings to Roof	Wall Cladding Repairs	Roof Cladding Repairs	Door & Window Repairs	Misc Repairs	Floor Finishes Cleaning & Repairs	Internal Wall Painting	Ceiling & Soffit Painting	Internal Door Repairs	Misc Repairs	Fire Suppress. Detection & Alarm Systems	Mechanical Ventillation	A/C Systems	Hot Water Generation	Electrical Services	Hydraulic Services	Comm. Systems	Vertical Transport	Misc Repairs
Unit	ft2	ft2	ft2	ft2	ft2	ft2	LS Allow	ft2	ft2	ft2	No.	LS Allow	ft2	LS Allow	No.	LS Allow	ft2	No.	LS Allow	LS Allow	LS Allow
Rate/Cost (\$ USD)	0.01	0.65	0.93	0.05	0.05	0.25	250.00	0.03	0.56	0.65	25.00	250.00	0.05	100.00	50.00	500.00	0.05	25.00	250.00	2,500.00	250.00
Frequency (Years)	0.50	5.00	7.00	1.00	1.00	1.00	1.00	1.00	12.00	12.00	1.00	1.00	1.00	1.00	0.50	1.00	1.00	1.00	1.00	1.00	1.00
Material Cost (\$ USD)	99	1,063	1,532	307	433	498	875	67	750	110	913	1,000	536	20	640	0	224	270	450	0	1,125

		Gross Area	Floor (GFA)	Extern Area	al Wall (EWA)		Area (A)	Door &	Window (DWA)		al Wall (IWA)
Ref	Building	ft2	m2	ft2	m2	ft2	m2	ft2	m2	ft2	m2

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

MAINTENANCE COST PLAN (SITE INFRASTRUCTURE)

DOCUMENT: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



		Total Buildings	Total Buil	lding Area		d Surface	Total Gree	en Surface	Site	Area
Ref	Location	No.	ft2	m2	ft2	m2	ft2	m2	ft2	m2
1.00	FSM-FMI (Fisheries & Maritime Institute), Gagil, Yap State	6	22,374	2,079	6,052	562	1,541,891	143,245	1,570,317	145,886

Element			unds pina			ar Parks, Roa & Pavements			ices ates		Structures			Site Drainage			trical ructure	Water Services	Site Furniture	Telecom Services
Maintenance Task	Mowing	Spraying	General	Pruning	Regrade,	Pot/Crack	Pot/Crack	Repaint	Fence &	Minor	Minor	Minor	Site	Building	Buildina	General	General	General	General	General
	oug	op.ujg	Grounds	& General	Relevel &	Fill Asphalt	Fill	Fences &	Gate	Building	Building	Building	Stormwater	Stormwater	Sewer	Electrical	Electrical	Water	Site	Telecom
			Keeping	Tree Maint.	Compact	Surface	Concrete	Gates	Repairs	Structures	Structures	Structures	Drainage	Drainage	Drainage	Maint.	Servicing	Services	Furniture	Services
			,		Gravel		Surface			Wash	General	Repaint	Maint.	Maint.	Maint.			Maint.	Maint.	
					Surface						Repairs									
nit	LS Allow /	LS Allow /	LS Allow /	LS	LS Allow /	LS Allow /	LS Allow /	LS	LS	LS Allow /	LS Allow /	LS Allow /	LS	LS Allow /	LS Allow /	LS Allow /	LS Allow	LS Allow /	LS	LS Allow /
	Green Area	Green Area	Green Area	Allow.	Area	Area	Area	Allow.	Allow.	GFA	Buildina No	GFA	Allow.	Buildina	Buildina	Buildina		Buildina	Allow.	Buildina
ate/Cost	0.00023	0.00012	0.00046	2,500.00	0.28	0.05	0.05	2,000.00	500.00	0.01	100.00	0.65	1,000.00	50.00	50.00	100.00	1,000.00	25.00	1,000.00	25.00
requency	0.08	0.50	0.25	1.00	1.00	1.00	1.00	5.00	1.00	0.50	1.00	5.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Years)																				
Quantity	462,567	462,567	462,567	1	12,917	0	6,052	0	1	2,289	3	2,289	1	6	6	6	1	6	1	6
otal Cost Per	107	54	215	2,500	3,600	0	303	0	500	23	300	1,488	1,000	300	300	600	1,000	150	1,000	150
Occurrence (\$ USD)																				
Annualised Maint. Budget (\$ USD)	1,289	107	859	2,500	3,600	0	303	0	500	46	300	298	1,000	300	300	600	1,000	150	1,000	150
		4,7	756			3,903		5	00		643			1,600		1,0	600		1,300	
abour Portion (%)	70%	35%	50%	70%	30%	30%	30%	70%	80%	70%	50%	60%	50%	50%	50%	50%	50%	50%	50%	50%
_abour Cost (\$ USD)	902	38	430	1,750	1,080	0	91	0	400	32	150	179	500	150	150	300	500	75	500	75
Labour Hours (Based on \$3/Hour)	301	13	143	583	360	0	30	0	133	11	50	60	167	50	50	100	167	25	167	25
Labour Hours 301 13 143 583 360 0 30 0 133 11 50 60 167 50 50 100 167 25 167 2 (Based on \$3/Hour) Number Maintenance Staff Re (Based on 1.800 Hours/P																				
Plant Portion (%)	30%	30%	25%	30%	50%	50%	50%	0%	0%	20%	20%	10%	30%	30%	30%	30%	30%	30%	0%	30%
* *		1											1							
Interial Coat (\$ HCD)	207	22	245	750	4 000	0	454	^	•	0	60	20	200	00	00	400	200	AE	Δ.	AF

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							Condition G	nuge.	7																
		Cond	ition Assessment	Cond	ition Grading	VG	G A	P VP	1	2	3	4	5	6	7	8	9	10			Asset Rer	iewal Cost		1	
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration	0-20 %	20-40 40-60 %	60-80 80-10 % %	2013 (\$ USD)		2015 (\$ USD)	2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal	Full Replace	% Full Replace
1.00	Sub-Structure							_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Total 0	0	0.0%
1.01	Reinforced Concrete Foundations Beams	Not inspected	None	3	50%			_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129,030	0.0%
1.03	Reinforced Concrete Slab on Grade	Not inspected	None	3	50%			_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	203,589	0.0%
								_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.00	Total Sub-Structure			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	332,619	0.0%
2.00	Frame								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.01	Concrete Roof Slab (Main Building)	Not inspected - Refer also to Roof	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	494,299	0.0%
2.02	Timber Roof Frame (Laundry)	ок	None	2	30%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,139	0.0%
	(Lauriury)								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.00	Total Frame			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	495,437	0.0%
3.00	Structural Walls								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.01	Reinforced Concrete Block Masonry Walls with Painted Finishes - Externally	Evidence of cracking/damage in isolated areas	Fill, repair and repaint	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	206,448	0.0%
3.02	Reinforced Concrete Block Masonry Walls with Painted Finishes - Internally	Evidence of cracking/damage in isolated areas	Fill, repair and repaint	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	218,387	0.0%
	- under monde monday								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.00	Total Structural Walls			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	424,835	0.0%
4.00	Upper Floors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.00	Total Upper Floors			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Roof								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.01	Membrane Roof Cladding	Evidence of leaks internally	Patch and repair isolated damage (if not done so already) Consider full re-application of membrane cladding	4	70%				0	0	0	0	0	257,035	0	0	0	0	514,071	257,035	0	257,035	514,071	257,035	200.0%
5.02	Profiled Metal Sheet Roof Cladding (Pre-Finished)	Evidence of corrossion	Rust treat, repaint and clean regulalry	4	70%				0	0	0	0	0	2,467	0	0	0	0	4,934	2,467	0	2,467	4,934	2,467	200.0%
5.02	Metal Down Pipes	OK. Quantity assumed	Repair, Replace, Clean, Wash Comments:	3	50%				0	0	0	0	0	0	0	0	0	0	6,072	0	6,072	0	6,072	6,072	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Total Roof			4	70%				0	0	0	0	0	259,502	0	0	0	0	525,076	259,502	6,072	259,502	525,076	265,574	197.7%
6.00	External Walls & Finishes								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.01	None - See Structural Walls for Painted Finishes			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.00	Total External Walls & Finishes			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Windows & Doors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.01	Timber Doors (Solid/No Glazing)	Tired but functional	Repair, repaint, clan regularly	3	50%				0	0	0	0	0	0	0	0	0	0	22,770	0	0	22,770	22,770	22,770	100.0%
7.02	Metal Louvres	ОК	Clean regulalry	3	50%				0	0	0	0	0	0	0	0	0	0	7,590	0	0	7,590	7,590	7,590	100.0%
7.03	Timber Window Shutters	Evidence of decay, orroded fixings/hardware, poor workmanship, missing/detached shutters, etc	Reinstate missing shutters, repaint, clean regulalry	4	70%				0	0	0	0	0	0	0	0	0	0	25,806	0	25,806	0	25,806	25,806	100.0%
7.04	Timber Mesh Screens	Evidence of decay, orroded fixings/hardware, poor workmanship, missing/detached screens, etc	Reinstate missing screens, repaint, clean regulalry	4	70%				0	0	0	0	0	0	0	0	0	0	51,612	0	51,612	0	51,612	51,612	100.0%
7.05	Aluminium Framed Windows & Doors	OK	Clean regulalry	3	50%				0	0	0	0	0	0	0	0	0	0	193,545	0	0	193,545	193,545	193,545	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Total Windows & Doors			4	70%				0	0	0	0	0	0	0	0	0	0	301,323	0	77,418	223,905	301,323	301,323	100.0%
A	TOTAL STRUCTURE			4	70%				0	0	0	0	0	259,502	0	0	0	0	826,399	259,502	83,490	483,407	826,399	1,819,789	45.4%
8.00	Stairs, Balustrades & Handrails								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%

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00 Interni 01	None I Stairs Balustrades & Handrails nal Walls/Partitions None - See Structural Walls I Internal Walls/Partitions nal Doors Timber Door - Single	Condition Condition Observations	Assessment Recommended Course of Action & Maintenance	Condition Grade 0	tition Grading % Deterioration 0%	VG G 0-20 20-4 %	0 40-60 60-8	0 80-100	1 2013 (\$ USD)		(\$ USD) (\$ I	4 5 2016 2017 USD) (\$ USD	D) (\$ USD)	(\$ USD)	(\$ USD)	<u> </u>	10 2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Asset Reno Year 11-20 Total	newal Cost Year 21-30 Total	Grand Renewal Total	Full Replace	% Full
00 Total 1 00 Interni 01	None I Stairs Balustrades & Handrails mal Walls/Partitions None - See Structural Walls I Internal Walls/Partitions nal Doors			Condition Grade	% Deterioration	0-20 20-4	40-60 60-8	0 80-100	(\$ USD)	2014 (\$ USD) (2015 (\$ USD) (\$!	USD) (\$ USE	D) (\$ USD)	(\$ USD)	(\$ USD)	(\$ USD)	2022	(\$ USD)		Year 11-20	Year 21-30			
00 Total 1 00 Interni 01	None I Stairs Balustrades & Handrails mal Walls/Partitions None - See Structural Walls I Internal Walls/Partitions nal Doors	Condition Observations	Recommended Course of Action & Maintenance	Grade 0	Deterioration 0%				(\$ USD)	(\$ USD) ((\$ USD) (\$ I	USD) (\$ USE	D) (\$ USD)	(\$ USD)	(\$ USD)	(\$ USD)		(\$ USD)						
00 Total 3 00 Intern: 01	I Stairs Balustrades & Handrails nal Walls/Partitions None - See Structural Walls I Internal Walls/Partitions nal Doors								0	0	0	0 0			+-	\longrightarrow						Total		Replace
00 Interni 01	nal Walls/Partitions None - See Structural Walls I Internal Walls/Partitions nal Doors			0	0%					1	•		0	0	0	0	0	0	0	0	0	0	0	0.0%
00 Interni 01	nal Walls/Partitions None - See Structural Walls I Internal Walls/Partitions nal Doors			0	0%				0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
00 Total I 0.00 Interni 0.01 Total I 0.00 Total I 0.00 Floor 1.01 Total I 0.00 Wall F	None - See Structural Walls I Internal Walls/Partitions nal Doors								0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
000 Total I 0.00 Interni 0.01 Total I 1.00 Floor I 1.01 Total I 2.00 Wall F	I Internal Walls/Partitions nal Doors								0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
0.00 Interni 0.01 Interni 0.00 Total I 1.00 Floor I 1.01 Total I 2.00 Wall F	nal Doors			0	0%				0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
0.00 Interni 0.01 Interni 0.00 Total I 1.00 Floor I 1.01 Total I 2.00 Wall F	nal Doors								0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
0.00 Total I 1.00 Floor 1.01			<u> </u>	0	0%				0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.00 Floor 1.01 Floor 1.02 Total I 2.00 Wall F	Timber Door - Single	ĺ							0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.00 Floor 1.01 1.02 1.00 Total 2.00 Wall F		Evidence of impact damage, marks, etc	Repair, Repaint, Clean Regulatry	3	50%				0	0	0	0 0	0	0	0	0	0	69,828	0	0	69,828	69,828	69,828	100.0%
1.00 Floor 1.01 1.02 1.00 Total 2.00 Wall F				+					0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.01 Total I 2.00 Wall F	I Internal Doors		1	3	50%				0	0	0	0 0	0	0	0	0	0	69,828	0	0	69,828	69,828	69,828	100.0%
1.02 Total I 2.00 Wall F	r Finishes			1					0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.00 Total I 2.00 Wall F 2.01	Vinyl Floor Finishes	Evidence of water stains, lifting, marks, tears, worn through,	Replace	5	90%				0	115,166	0	0 0	0	0	0	0	0	230,331	115,166	0	115,166	230,331	115,166	200.0%
2.00 Wall F 2.01	Tiled Floor Finishes	etc Evidence of impact damage, lifting tiles, loose grout, marks,	Replace	5	90%				0	0	22,770	0 0	0	0	0	0	0	22,770	22,770	0	0	22,770	22,770	100.0%
2.00 Wall F 2.01		stains, generally unclean		1					0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.01	l Floor Finishes		<u> </u>	5	90%				0	115,166	22,770	0 0	0	0	0	0	0	253,101	137,936	0	115,166	253,101	137,936	183.5%
2.02	Finishes								0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
	Plywood Wall Linings with Painted Finishes	Evidence of impact damage, water damage, etc	Repair, Paint, Clean	4	70%				0	0	0	0 0	0	0	0	0	0	101,307	0	101,307	0	101,307	101,307	100.0%
.00 Total \	Tiled Wall Finishes	(Note: Quantity Assumed) Stained tiles, stained grout, very unclean by appearance	Replace	5	90%				0	0	36,432	0 0	0	0	0	0	0	36,432	36,432	0	0	36,432	36,432	100.0%
.00 Total									0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
	Wall Finishes			5	90%				0	0	36,432	0 0	0	0	0	0	0	137,739	36,432	101,307	0	137,739	137,739	100.0%
3.00 Ceiling	ng Finishes								0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.01	Proprietary Suspended Ceilings (Exposed Grid	Evidence of leaks internally, damaged/marked/stained, some		3	50%				0	0	0	0 0	0	0	0	0	0	93,964	0	93,964	0	93,964	93,964	100.0%
-	Suspension System)	rust on suspension grid, ceiling tiles, generally OK	regulalry						0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.00 Total (Ceiling Finishes			3	50%				0	0	0	0 0	0	0	0	0	0	93,964	0	93,964	0	93,964	93,964	100.0%
4.00 Fixed	d Joinery Units								0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.01	Toilet Partitions	Evidence of impact damage, water damage, delaminating	Clean regulalry	3	50%				0	0	0	0 0	0	0	0	0	0	12,144	0	12,144	0	12,144	12,144	100.0%
4.02	Built-in Joinery - Bench Unit	panels, marks Evidence of impact damage, marks, etc	Clean regulalry	3	50%				0	0	0	0 0	0	0	0	0	0	25,300	0	25,300	0	25,300	25,300	100.0%
4.03	Built-in Joinery - Shelving Unit	Evidence of impact damage, marks, etc	Clean regulalry	3	50%				0	0	0	0 0	0	0	0	0	0	25,300	0	25,300	0	25,300	25,300	100.0%
4.03	Built-in Joinery - Other Generally	Evidence of impact damage, marks, etc	Clean regulalry	3	50%				0	0	0	0 0	0	0	0	0	0	25,300	0	25,300	0	25,300	25,300	100.0%
4.04	Built-in Joinery - Kitchen (Small)	Evidence of impact damage, marks, etc	Clean regulalry	3	50%				0	0	0	0 0	0	0	0	0	0	9,488	0	9,488	0	9,488	9,488	100.0%
4.05	Built-in Joinery - Kitchen (Large)	Evidence of impact damage, marks, etc	Clean regulalry	3	50%				0	0	0	0 0	0	0	0	0	0	63,250	0	63,250	0	63,250	63,250	100.0%
				1					0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.00 Total I	Fixed Joinery Units			3	50%				0	0	0	0 0	0	0	0	0	0	160,782	0	160,782	0	160,782	160,782	100.0%
ТОТА				4	70%				0	115,166	59,202	0 0	0	0	0	0	0	715,414	174,368	356,053	184,994	715,414	600,249	119.2%
5.00 Sanita	AL INTERNAL FIT-OUT								0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.01	AL INTERNAL FIT-OUT	Functional but fired and unclean by appearance	Consider ealry replacement	4	70%				0	0	0	0 0	0	0	0	37,950	0	37,950	37,950	0	0	37,950	37,950	100.0%
5.02		Functional but tired and unclean by appearance	1														The state of the s			-				1
5.03	tary Plumbing	(Quantity assumed from photographs) Functional but tired and unclean by appearance	Consider ealry replacement	4	70%				0	0	0	0 0	0	0	0	15,180	0	15,180	15,180	0	0	15,180	15,180	100.0%
	tary Plumbing WC	(Quantity assumed from photographs)	Consider ealry replacement Consider ealry replacement	4	70%				0	0		0 0		0	0	15,180 37,950	0		15,180 37,950	0	0	15,180 37,950	15,180 37,950	100.0% 100.0%

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Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



							Condition Gaug	9																	
			Condition Assessment	Cond	ition Grading	VG C	A	VP	1	2	3	4	5	6	7	8	9	10			Asset Ren	newal Cost		1	
O Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration	0-20 20- %		-80 80-100 %	2013 (\$ USD)	2014 (\$ USD)	2015 (\$ USD)	2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace
5.00	Total Sanitary Plumbing			4	70%				0	0	0	0	0	0	0	0	91,080	0	91,080	91,080	0	0	91,080	91,080	100.0%
6.00	Mechanical Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.01	Air-Conditioning - DX/Split System				0%				0	0	0	0	0	0	35,420	0	0	0	141,680	35,420	35,420	70,840	141,680	35,420	400.0%
6.02	Air-Conditioning - Window Mounted Unit)				0%				0	0	0	0	0	0	0	0	0	15,180	45,540	15,180	15,180	15,180	45,540	15,180	300.0%
6.03	Ventilation - Kitchen Extract	Unsure whether in operation	Test, repair and service regulalry	3	50%				0	0	0	0	0	0	0	0	0	18,975	37,950	18,975	0	18,975	37,950	18,975	200.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.00	Total Mechanical Services			1	10%				0	0	0	0	0	0	35,420	0	0	34,155	225,170	69,575	50,600	104,995	225,170	69,575	323.6%
7.00	Fire Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.01	Fire/Smoke Detection & Alarm Systems	Unsure whether in operation	Test, repair and service regulalry	3	50%				0	0	0	0	0	0	0	0	0	31,321	62,643	31,321	0	31,321	62,643	31,321	200.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Total Fire Services			3	50%				0	0	0	0	0	0	0	0	0	31,321	62,643	31,321	0	31,321	62,643	31,321	200.0%
8.00	Electrical Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.01	Main Distribution Boards	Assumed functioning sufficiently	Service regulalry	3	50%				0	0	0	0	0	0	0	0	0	0	9,488	0	9,488	0	9,488	9,488	100.0%
8.02	Sub-Main Distribution Boards	Assumed functioning sufficiently	Service regulalry	3	50%				0	0	0	0	0	0	0	0	0	0	17,710	0	17,710	0	17,710	17,710	100.0%
8.03	Electrical Wiring/Reticulation	Assumed functioning sufficiently	Service regulalry	3	50%				0	0	0	0	0	0	0	0	0	0	46,982	0	46,982	0	46,982	46,982	100.0%
8.04	General Power	Assumed functioning sufficiently	Service regulatry	3	50%				0	0	0	0	0	0	0	0	0	0	62,643	0	62,643	0	62,643	62,643	100.0%
8.05	Lighting (External)	Assumed functioning sufficiently	Service regulalry	3	50%				0	0	0	0	0	0	0	0	0	0	15,661	0	15,661	0	15,661	15,661	100.0%
8.06	Lighting (Internal)	Assumed functioning sufficiently	Service regulatry	3	50%				0	0	0	0	0	0	0	0	0	0	125,286	0	125,286	0	125,286	125,286	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.00	Total Electrical Services			3	50%				0	0	0	0	0	0	0	0	0	0	277,769	0	277,769	0	277,769	277,769	100.0%
9.00	Vertical Transportation								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Total Vertical Transportation			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
0.00	Special Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
0.01	Telecommunication/Data Network	Assumed functioning sufficiently	Service regulalry	3	50%				0	0	0	0	0	0	0	0	0	62,643	125,286	62,643	0	62,643	125,286	62,643	200.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
0.00	Total Special Services			3	50%				0	0	0	0	0	0	0	0	0	62,643	125,286	62,643	0	62,643	125,286	62,643	200.0%
	TOTAL BUILDING SERVICES			3	50%				0	0	0	0	0	0	35,420	0	91,080	128,119	781,947	254,619	328,369	198,959	781,947	532,388	146.9%
	TOTAL BUILDING			4	70%				0	115,166	59,202	0	0	259,502	35,420	0	91,080	128,119	2,323,761	688,489	767,912	867,360	2,323,761	2,952,425	78.7%

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B - STAFF HOUSING

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



							Condition Gar	uge																_	
		Condition	Assessment	Cond	ition Grading	VG	G A	P VP	1	2	3	4	5	6	7	8	9	10			Asset Ren	ewal Cost		l	
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration		0-40 40-60 %	60-80 80-1 0 %	2013 (\$ USD)			2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace
1.00	Sub-Structure								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.01	Reinforced Concrete Foundations Beams	Not inspected	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41,555	0.0%
1.02	Reinforced Concrete Slab on Grade	Not inspected	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43,724	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.00	Total Sub-Structure			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85,279	0.0%
2.00	Frame								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.01	Timber Frame (Truss)	Not inspected	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63,671	0.0%
2.02	Reinforced Concrete Columns & Beams	ок	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76,773	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.00	Total Frame			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140,444	0.0%
3.00	Structural Walls								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.01	Reinforced Concrete Brick/Block Masonry Walls	ок	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46,269	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.00	Total Structural Walls			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46,269	0.0%
4.00	Upper Floors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.00	Total Upper Floors			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Roof								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.01	Profiled Metal Sheet Roof Cladding (Pre-Finished)	Evidence of leaks internally, flaking of protective coating or	Rust Treat, Repaint, Wash Regularly	4	70%				0	0	0	0	0	0	0	0	45,479	0	45,479	45,479	0	0	45,479	45,479	100.0%
5.02	Metal Gutters	corrosion Evidence of corrosion	Repair, Replace, Clean, Wash	4	70%				0	0	0	0	0	0	0	0	11,208	0	11,208	11,208	0	0	11,208	11,208	100.0%
			Comments:						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Total Roof			4	70%				0	0	0	0	0	0	0	0	56,687	0	56,687	56,687	0	0	56,687	56,687	100.0%
6.00	External Walls & Finishes		:						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.01	Solid Plaster Cladding with Painted Finishes	Evidence of cracks (crazed or structural); Dirty needs wash	Repair, Repaint, Wash Regularly	3	50%				0	0	0	0	0	0	0	0	0	0	26,604	0	0	26,604	26,604	26,604	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.00	Total External Walls & Finishes			3	50%				0	0	0	0	0	0	0	0	0	0	26,604	0	0	26,604	26,604	26,604	100.0%
7.00	Windows & Doors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.01	Timber Doors (Solid/No Glazing)	Evidence of decay, corroded fixings/hardware, flaking paint	Repaint, Wash	4	70%				0	0	0	0	0	0	0	0	0	0	7,590	0	7,590	0	7,590	7,590	100.0%
7.02	Timber Security Screens	finishes Evidence of decay, corroded fixings/hardware, flaking paint finishes	Repaint, Wash	4	70%				0	0	0	0	0	0	0	0	0	0	6,246	0	6,246	0	6,246	6,246	100.0%
7.03	Aluminium Framed Windows	OK OK	Wash	3	50%				0	0	0	0	0	0	0	0	0	0	43,377	0	0	43,377	43,377	43,377	100.0%
	(Combination of Louvered & Fixed)								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Total Windows & Doors			4	70%				0	0	0	0	0	0	0	0	0	0	57,213	0	13,836	43,377	57,213	57,213	100.0%
A	TOTAL STRUCTURE			4	70%				0	0	0	0	0	0	0	0	56,687	0	140,505	56,687	13,836	69,981	140,505	412,496	34.1%
8.00	Stairs, Balustrades & Handrails								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.00	Total Stairs Balustrades & Handrails			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Internal Walls/Partitions								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
					1													<u> </u>		<u> </u>					<u> </u>

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

B - STAFF HOUSING

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



							Conditio	on Gauge																	
		Condition	Assessment	Condi	ition Grading	VG	G /	АР	VP	1	2	3	4 5	6	7	8	9	10			Asset Re	newal Cost			
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration	0-20 %		60-80 80 %				2015 2 S USD) (\$	2016 20 (\$ USD) (\$ U			2020 (\$ USD)			Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace
9.01	Timber Framed Partition Walls	Not inspected	None	3	50%					0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	15,677	0.0%
										0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Total Internal Walls/Partitions			3	50%					0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	15,677	0.0%
10.00	Internal Doors									0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10.01	Timber Door - Single	Evidence of impact damage, marks, etc	Repair, Repaint, Clean	3	50%					0	0	0	0 0	0	0	0	0	0	15,180	0	0	15,180	15,180	15,180	100.0%
										0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10.00	Total Internal Doors			3	50%					0	0	0	0 0	0	0	0	0	0	15,180	0	0	15,180	15,180	15,180	100.0%
11.00	Floor Finishes									0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
11.01	Vinyl Floor Finishes	Evidence of water stains, lifting, marks, tears, worn through,	Replace	5	90%					0 2	24,216	0	0 0	0	0	0	0	0	48,433	24,216	0	24,216	48,433	24,216	200.0%
11.02	Tiled Floor Finishes	Generally dirty, grout stained and unsanitary by appearance	Replace	5	90%					0	0 6	6,054	0 0	0	0	0	0	0	6,054	6,054	0	0	6,054	6,054	100.0%
										0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
11.00	Total Floor Finishes			5	90%					0 2	24,216	6,054	0 0	0	0	0	0	0	54,487	30,270	0	24,216	54,487	30,270	180.0%
12.00	Wall Finishes									0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
12.01	Plasterboard/Hardboard Wall Linings with Painted	Evidence of impact damage, water damage, marks	Repair, Paint, Clean	3	50%					0	0	0	0 0	0	0	0	0	28,046	56,092	28,046	0	28,046	56,092	28,046	200.0%
12.02	Finishes Solid Plaster Wall Lining with Painted Finishes	Evidence of impact damage, cracks, water damage	Repair, Paint, Clean	3	50%					0	0	0	0 0	0	0	0	0	0	19,664	0	19,664	0	19,664	19,664	100.0%
12.03	Tiled Wall Finishes	Generally dirty, grout stained and unsanitary by appearance	Replace	5	90%					0	0 1	16,394	0 0	0	0	0	0	0	16,394	16,394	0	0	16,394	16,394	100.0%
										0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
12.00	Total Wall Finishes			4	70%					0	0 1	16,394	0 0	0	0	0	0	28,046	92,150	44,440	19,664	28,046	92,150	64,105	143.8%
13.00	Ceiling Finishes									0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13.01	Plywood Ceiling Lining with Painted Finish	Evidence of leaks internally, but OK	Repair, Paint, Clean	3	50%					0	0	0	0 0	0	0	0	0	0	31,952	0	0	31,952	31,952	31,952	100.0%
13.02	T&G Timber Board Ceiling Lining with Clear Finish	ок	Repair, Paint, Clean	3	50%					0	0	0	0 0	0	0	0	0	0	21,914	0	0	21,914	21,914	21,914	100.0%
										0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13.00	Total Ceiling Finishes			3	50%					0	0	0	0 0	0	0	0	0	0	53,866	0	0	53,866	53,866	53,866	100.0%
14.00	Fixed Joinery Units									0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
14.01	White Boards	ок	None	2	30%					0	0	0	0 0	0	0	0	0	0	380	0	0	380	380	380	100.0%
14.02	Mirrors	ок	None	3	50%					0	0	0	0 0	0	0	0	0	0	1,139	0	1,139	0	1,139	1,139	100.0%
14.03	Built-in Joinery - Bench Unit	ок	None	3	50%					0	0	0	0 0	0	0	0	0	0	2,530	0	2,530	0	2,530	2,530	100.0%
14.04	Built-in Joinery - Shelving Unit	ОК	None	3	50%					0	0	0	0 0	0	0	0	0	0	1,265	0	1,265	0	1,265	1,265	100.0%
14.05	Built-in Joinery - Wardrobe	ОК	Clean and repaint	3	50%					0	0	0	0 0	0	0	0	0	0	3,795	0	3,795	0	3,795	3,795	100.0%
14.06	Built-in Joinery - Kitchen (Medium)	Functional but tired	Clean and repaint	4	70%					0	0	0	0 0	0	0	0	37,950	0	37,950	37,950	0	0	37,950	37,950	100.0%
14.07	Sundry Other Built-in Joinery	ОК	None	3	50%					0	0	0	0 0	0	0	0	0	0	6,325	0	6,325	0	6,325	6,325	100.0%
										0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
14.00	Total Fixed Joinery Units		<u> </u>	3	50%					0	0	0	0 0	0	0	0	37,950	0	53,383	37,950	15,054	380	53,383	53,383	100.0%
В	TOTAL INTERNAL FIT-OUT			4	70%					0 2	24,216 2	22,448	0 0	0	0	0	37,950	28,046	269,067	112,661	34,718	121,688	269,067	232,481	115.7%
15.00	Sanitary Plumbing									0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
15.01	wc	Functional but tired	Consider early replacement	4	70%					0	0	0	0 0	0	0	0	9,488	0	9,488	9,488	0	0	9,488	9,488	100.0%
15.02	WHB (Single)	Functional but tired	Consider early replacement	4	70%					0	0	0	0 0	0	0	0	5,693	0	5,693	5,693	0	0	5,693	5,693	100.0%
15.03	Shower	Functional but tired	Consider early replacement	4	70%					0	0	0	0 0	0	0	0	9,488	0	9,488	9,488	0	0	9,488	9,488	100.0%
										0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
15.00	Total Sanitary Plumbing			4	70%					0	0	0	0 0	0	0	0	24,668	3 0	24,668	24,668	0	0	24,668	24,668	100.0%
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B - STAFF HOUSING

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN

Audit Date: October 2013



							Condition Ga												1					٦	
			Condition Assessment	Condi	tion Grading	VG	G A	P VP	1	2	3	4	5	6	7	8	9	10			Asset Rer	newal Cost			
Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration		0-40 40-60 %	% 80-10 %	2013 (\$ USD)	2014 (\$ USD)	2015 (\$ USD)	2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Fu Repla
5.00	Mechanical Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
.01	Air-Conditioning - DX/Split System	Evidence of Corrosion and grit	Repair, Service, Clean	4	70%				0	0	8,855	0	0	0	0	0	0	8,855	35,420	17,710	8,855	8,855	35,420	8,855	400.0
02	Air-Conditioning - Window Mounted Unit)	Evidence of Corrosion and grit	Repair, Service, Clean	3	50%				0	0	0	0	1,898	0	0	0	0	0	5,693	1,898	1,898	1,898	5,693	1,898	300.
03	Air-Conditioning - Window Mounted Unit)	Evidence of Corrosion and grit	Replace	5	90%				3,795	0	0	0	0	0	0	0	0	0	11,385	3,795	3,795	3,795	11,385	3,795	300.
04	Air-Conditioning - Window Mounted Unit)	Evidence of Corrosion and grit	Repair, Service, Clean	4	70%				0	0	5,693	0	0	0	0	0	0	0	17,078	5,693	5,693	5,693	17,078	5,693	300.0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
00	Total Mechanical Services			4	70%				3,795	0	14,548	0	1,898	0	0	0	0	8,855	69,575	29,095	20,240	20,240	69,575	20,240	343.
00	Fire Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
01	Smoke Detection & Alarm Systems	Hardwired but not connected	Replace	5	90%				0	5,045	0	0	0	0	0	0	0	0	10,090	5,045	0	5,045	10,090	5,045	200.
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
00	Total Fire Services			5	90%				0	5,045	0	0	0	0	0	0	0	0	10,090	5,045	0	5,045	10,090	5,045	200.
0	Electrical Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
)1	Main Distribution Boards	ОК	None	2	30%				0	0	0	0	0	0	0	0	0	0	9,488	0	0	9,488	9,488	9,488	100
)2	Sub-Main Distribution Boards	ОК	None	2	30%				0	0	0	0	0	0	0	0	0	0	13,283	0	0	13,283	13,283	13,283	100.
03	Electrical Wiring/Reticulation	Assumed OK	None	3	50%				0	0	0	0	0	0	0	0	0	0	10,090	0	10,090	0	10,090	10,090	100.
04	General Power Outlet	Assumed OK	None	3	50%				0	0	0	0	0	0	0	0	0	0	13,454	0	13,454	0	13,454	13,454	100.
05	Lighting (External) - Incandescent	OK - Missing bulbs in places	Replace bulbs	3	50%				0	0	0	0	0	0	0	0	0	0	1,265	0	1,265	0	1,265	1,265	100.
06	Lighting (Internal) - Incandescent	OK - Missing bulbs in places	Replace bulbs	3	50%				0	0	0	0	0	0	0	0	0	0	6,325	0	6,325	0	6,325	6,325	100.
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
.00	Total Electrical Services			3	50%				0	0	0	0	0	0	0	0	0	0	53,904	0	31,134	22,770	53,904	53,904	100.0
00	Vertical Transportation								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
00	Total Vertical Transportation			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
00	Special Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
01	Telecommunication/Data Network	Assumed In Operation	None	3	50%				0	0	0	0	0	0	0	0	0	3,363	6,727	3,363	0	3,363	6,727	3,363	200.
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09
00	Total Special Services			3	50%				0	0	0	0	0	0	0	0	0	3,363	6,727	3,363	0	3,363	6,727	3,363	200.0
	TOTAL BUILDING SERVICES			4	70%				3,795				1,898	0	0	0	24,668	12,218	164,963	62,171	51,374	51,418	164,963	107,220	153.9
	TOTAL BUILDING			4	70%				3,795	29,261	36,996	0	1,898	0	0	0	119,305	40,264	574,534	231,519	99,928	243,088	574,534	752,197	76.4

Year 1 - 10 Consolidated Capital Replacement Cost

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Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



		Condit	tion Assessment	Cond	dition Grading	VG	Cond	lition Gauge	VP	1 1	2	3 1	4 1	5	6	7	8	9	10	Ī		Asset Por	iewal Cost		1	
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition	ı %			40-60 60-80 % %		2013 S USD)	2014	2015	2016 (\$ USD)	2017	2018	2019	2020 (\$ USD)	2021 (\$ USD)	2022	Total (\$ USD)	Year 1-10	Year 11-20	Year 21-30		Full	% Full
1.00	Sub-Structure			Grade	Deterioration	76	76	76 76	1	0	0	0	(\$ USD)	0	(\$ 050)	(\$ 050)	(\$ 050)	0	(\$ 050)	(\$ 050)	Total 0	Total 0	Total 0	Renewal Total 0	Replace 0	Replace 0.0%
1.01	Reinforced Concrete Foundations Beams	Not Inspected	None	3	50%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75,742	0.0%
1.02	Reinforced Concrete Slab on Grade with Painted	ОК	Repaint	3	50%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80,457	0.0%
	Finish									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.00	Total Sub-Structure			3	50%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156,199	0.0%
2.00	Frame									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.01	Concrete Roof Slab	Not Inspected - See roof covering observations	None	3	50%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	193,308	0.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.00	Total Frame			3	50%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	193,308	0.0%
3.00	Structural Walls									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.01	Reinforced Concrete Block Masonry Walls with Painted Finishes - Externally (Poor Areas - 40%)	Evidence of cracking, settlement	Review by Structural Engineer, Replace	5	90%					0	0	0	0	0	0	0	0	0	49,386	49,386	49,386	0	0	49,386	49,386	100.0%
3.02	Reinforced Concrete Block Masonry Walls with Painted Finishes - Externally (Good Areas - 60%)	Evidence of cracking	Review by Structural Engineer, Repair, Repaint, Wash	3	50%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74,078	0.0%
3.03	Reinforced Concrete Block Masonry Walls with Painted Finishes - Internally	Evidence of cracking	Review by Structural Engineer, Repair, Repaint	3	50%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83,490	0.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.00	Total Structural Walls			4	70%					0	0	0	0	0	0	0	0	0	49,386	49,386	49,386	0	0	49,386	206,954	23.9%
4.00	Upper Floors	lov.	Nana	2	200/					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.550	0.0%
4.01	Timber Framed Upper Floor (Mezzanine Floors)	OK .	None	2	30%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,650	0.0%
4.00	Total Upper Floors			2	30%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,650	0.0%
5.00	Roof			-	3070			_		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.01	Membrane Roof Cladding	Evidence of leaks internally, tearing of membrane or	Replace, Wash Regularly	5	90%						100,520	0	0	0	0	0	0	0	0	201,040	100,520	0	100,520	201,040	100,520	200.0%
5.02	Metal Down Pipes	detachment OK	Cleanout, Wash	3	50%					0	0	0	0	0	0	0	0	0	0	3,036	0	3,036	0	3,036	3,036	100.0%
	· ·									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Total Roof			4	70%					0	100,520	0	0	0	0	0	0	0	0	204,076	100,520	3,036	100,520	204,076	103,556	197.1%
6.00	External Walls & Finishes									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.01	None			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.00	Total External Walls & Finishes			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Windows & Doors									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.01	Aluminium Framed Windows	ОК	Wash Regularly	3	50%					0	0	0	0	0	0	0	0	0	0	92,598	0	0	92,598	92,598	92,598	100.0%
7.02	Metal Doors - Single (Solid/No Glazing)	Evidence of flaking protective and impact damage	Repair, Wash Regularly	3	50%					0	0	0	0	0	0	0	0	0	0	12,650	0	0	12,650	12,650	12,650	100.0%
7.03	Metal Doors - Double (Solid/No Glazing)	Evidence of flaking protective and impact damage	Repair, Wash Regularly	3	50%					0	0	0	0	0	0	0	0	0	0	7,590	0	0	7,590	7,590	7,590	100.0%
7.04	Metal Garage Door (Roller	OK - Needs Cleaning	Wash Regularly	3	50%					0	0	0	0	0	0	0	0	0	0	8,855	0	0	8,855	8,855	8,855	100.0%
7.05	Metal Security Screens	ОК	Wash Regularly	3	50%					0	0	0	0	0	0	0	0	0	0	77,114	0	0	77,114	77,114	77,114	100.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Total Windows & Doors			3	50%					0	0	0	0	0	0	0	0	0	0	198,807	0	0	198,807	198,807	198,807	100.0%
A	TOTAL STRUCTURE			4	70%						100,520	0	0	0	0	0	0	0	49,386	452,269	149,906	3,036	299,327	452,269	871,474	51.9%
8.00	Stairs, Balustrades & Handrails		Non		200					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.01	Timber Framed Ladder (To Mezzanine Floor)	ОК	None	2	30%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	633	0.0%

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						(Condition Gau	ge	7																
		Condition	Assessment	Condi	tion Grading	VG (P VP	1	2	3	4	5	6	7	8	9	10			Asset Rer	iewal Cost			
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration	0-20 20- %		0-80 <mark>80-100</mark> %	2013 (\$ USD)		2015 (\$ USD)		2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace
8.02	Timber Framed Balustrades (To Mezzanine Floor)	ОК	None	2	30%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,416	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.00	Total Stairs Balustrades & Handrails			2	30%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,048	0.0%
9.00	Internal Walls/Partitions								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.01	Timber Framed Partition Walls (Under Mezzanine Floors)	Not inspected	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,377	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Total Internal Walls/Partitions			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,377	0.0%
10.00	Internal Doors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10.01	Timber Door - Single	ОК	None	3	50%				0	0	0	0	0	0	0	0	0	0	21,252	0	0	21,252	21,252	21,252	100.0%
10.00									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10.00	Total Internal Doors			3	50%				0	0	0	0	0	0	0	0	0	0	21,252	0	0	21,252	21,252	21,252	100.0%
11.00	Floor Finishes	Cood Condition Miner Marks	Close regularly		50%				0	0	0	0	0	0	0	0	0	3,643	7,286	0	0	0	7 296	0	200.0%
11.02	Vinyl Floor Finishes (Computer Lab) Vinyl Floor Finishes	Good Condition, Minor Marks	Clean regularly	5	90%				0	19,430	0	0	0	0	0	0	0	3,643	38,861	3,643 19,430	0	3,643	7,286 38,861	3,643 19,430	200.0%
11.03	(Generally Elsewhere) Tiled Floor Finishes	Evidence of water stains, lifting, marks, tears, worn through, etc Tired and stained grout; unclean by appearance	Replace Consider replacement	4	70%				0	0	0	0	0	0	0	0	2,049	0	2,049	2,049	0	19,430	2,049	2,049	100.0%
11.00	Theu Floor Fillishes	The and stanled grout, undean by appearance	Consider replacement	-	7070				0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,049	0	0.0%
11.00	Total Floor Finishes			4	70%				0	19,430	0	0	0	0	0	0	2,049	3,643	48,197	25,123	0	23,074	48,197	25,123	191.8%
12.00	Wall Finishes				10%				0	0	0	0	0	0	0	0	0	0,040	0	0	0	0	0	0	0.0%
12.01	Plywood Wall Linings with Painted Finishes	OK	Clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	11,066	0	0	11,066	11,066	11,066	100.0%
12.02	Tiled Wall Finishes	Tired and stained grout; unclean by appearance	Consider replacement	4	70%				0	0	0	0	0	0	0	0	4,099	0	4,099	4,099	0	0	4,099	4,099	100.0%
		у							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
12.00	Total Wall Finishes	•		4	70%				0	0	0	0	0	0	0	0	4,099	0	15,165	4,099	0	11,066	15,165	15,165	100.0%
13.00	Ceiling Finishes								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13.01	Plywood Ceiling Lining with Painted Finishes	ОК	Clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	5,313	0	0	5,313	5,313	5,313	100.0%
13.02	Timber Ceiling Sarking with Painted Finishes	ОК	Clean regularly	3	50%		_		0	0	0	0	0	0	0	0	0	0	7,748	0	0	7,748	7,748	7,748	100.0%
13.03	Proprietary Suspended Ceilings (Exposed Grid	ОК	Reset loose tiles; clean regularly	3	50%		-		0	0	0	0	0	0	0	0	0	0	10,930	0	10,930	0	10,930	10,930	100.0%
	Suspension System)								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13.00	Total Ceiling Finishes			3	50%				0	0	0	0	0	0	0	0	0	0	23,991	0	10,930	13,061	23,991	23,991	100.0%
14.00	Fixed Joinery Units								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
14.01	Pin Board	ОК	None	3	50%				0	0	0	0	0	0	0	1,012	0	0	2,024	1,012	0	1,012	2,024	1,012	200.0%
14.02	White Boards	ОК	None	2	30%				0	0	0	0	0	0	0	0	0	0	5,693	0	0	5,693	5,693	5,693	100.0%
14.03	Built-in Joinery - Bench Unit	ОК	None	3	50%				0	0	0	0	0	0	0	0	0	0	25,300	0	25,300	0	25,300	25,300	100.0%
14.04	Built-in Joinery - Shelving Unit	ок	None	3	50%				0	0	0	0	0	0	0	0	0	0	12,650	0	12,650	0	12,650	12,650	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
14.00	Total Fixed Joinery Units			3	50%				0	0	0	0	0	0	0	1,012	0	0	45,667	1,012	37,950	6,705	45,667	44,655	102.3%
В	TOTAL INTERNAL FIT-OUT			4	70%				0	19,430	0	0	0	0	0	1,012	6,148	3,643	154,271	30,234	48,880	75,157	154,271	141,610	108.9%
15.00	Sanitary Plumbing								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
15.01	wc	Functioning but tired	Clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	3,163	0	3,163	0	3,163	3,163	100.0%
15.02	Floor Waste	Unclean by appearance	Install grate and clean out regularly	3	50%				0	0	0	0	0	0	0	0	0	0	949	0	949	0	949	949	100.0%
15.03	WHB (Single)	Functioning but tired	Clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	1,898	0	1,898	0	1,898	1,898	100.0%

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Mathematical Content of the conten							Co	ondition Gauge																		
Mathematical Content of the conten			Condition	Assessment	Condi	tion Grading	VG G	A F	VP	1	2	3	4	5	6	7	8	9	10			Asset Re	newal Cost			
14 15 15 15 15 15 15 15	ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance																				Renewal		% Full Replace
Many control Many										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
	15.00	Total Sanitary Plumbing			3	50%				0	0	0	0	0	0	0	0	0	0	6,009	0	6,009	0	6,009	6,009	100.0%
	16.00	Mechanical Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
	16.01	Air-Conditioning - DX/Split System		Service, clean regularly	4	70%				0	0	8,855	0	0	0	0	0	0	8,855	35,420	17,710	8,855	8,855	35,420	8,855	400.0%
Mary Note 1	16.02	Air-Conditioning - DX/Split System		Consider replacement	4	70%				0	0	22,138	0	0	0	0	0	0	22,138	88,550	44,275	22,138	22,138	88,550	22,138	400.0%
50 Marchester Control of the American Control of the A	16.03		Assumed redundant	None	0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Mathematic	16.04	Air-Conditioning - Window Mounted Unit	Assumed redundant	None	0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Professor Prof		(MISSING OTHES - ONG ASSUMED REGUNDANT)								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Amen Species and Properties and Prop	16.00	Total Mechanical Services			2	30%				0	0	30,993	0	0	0	0	0	0	30,993	123,970	61,985	30,993	30,993	123,970	30,993	400.0%
Part	17.00	Fire Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1. 1	17.01	Alarm Systems	Unsure if in operation	Test and repair if required	0	0%				0	0	0	0	0	0	0	0	0	0	6,189	0	6,189	0	6,189	6,189	100.0%
18 18 18 18 18 18 18 18										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Main Distribution States Main Distribution S	17.00	Total Fire Services			0	0%				0	0	0	0	0	0	0	0	0	0	6,189	0	6,189	0	6,189	6,189	100.0%
Sub-Name Desire Manuscrip qualifaction of Name of opering qualifaction of Name of Parameter qualifaction of	18.00	Electrical Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Petrical Windy Petrical Manuscript None 3 50%	18.01	Main Distribution Boards	Assumed operating satisfactorily	None	3	50%				0	0	0	0	0	0	0	0	0	0	9,488	0	9,488	0	9,488	9,488	100.0%
General Pure Outlet Assumed operating satisfactority Nove 3 50% 0 0 0 0 0 0 0 0 0	18.02	Sub-Main Distribution Boards	Assumed operating satisfactorily	None	3	50%				0	0	0	0	0	0	0	0	0	0	30,993	0	30,993	0	30,993	30,993	100.0%
8.6 S Prisear Power Cultar Assumed specific particulation by Nova 3 \$6/6 4. Lighting (External) - Processour) Assumed specific particulation by Nova 3 \$6/6 4. Lighting (External) - Processour) Assumed specific particulation by Nova 3 \$6/6 4. Lighting (External) - Processour) Assumed specific particulation by Nova 3 \$6/6 4. Lighting (External) - Processour) Assumed specific particulation by Nova 3 \$6/6 4. Lighting (External) - Processour) Assumed specific particulation by Nova 3 \$6/6 4. Lighting (External) - Processour) Assumed specific particulation by Nova 3 \$6/6 4. Lighting (External) - Processour) Assumed specific particulation by Nova 3 \$6/6 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (External) - Processour) Assumed specific particulation by Nova 4. Lighting (Exte	18.03	Electrical Wiring/Reticulation	Assumed operating satisfactorily	None	3	50%				0	0	0	0	0	0	0	0	0	0	18,567	0	18,567	0	18,567	18,567	100.0%
Lighting (External) - Incandescent Assumed operating satisfactority None 3 50% 1,865	18.04	General Power Outlet	Assumed operating satisfactorily	None	3	50%				0	0	0	0	0	0	0	0	0	0	24,756	0	24,756	0	24,756	24,756	100.0%
Lighing (External) - Fluorescart Assumed operating satisfactority None 3 5 65%	18.05	3 Phase Power Outlet	Assumed operating satisfactorily	None	3	50%				0	0	0	0	0	0	0	0	0	0	30,945	0	30,945	0	30,945	30,945	100.0%
Lighting (internat) - Incardisacent Assumed operating satisfactionly Cean regularly 3 50% Uighting (internat) - Frozenciant Assumed operating satisfactionly Cean regularly 3 50% Uighting (internat) - Frozenciant Assumed operating satisfactionly Cean regularly 3 50% Uighting (internat) - Frozenciant Assumed operating satisfactionly Cean regularly 3 50% Uighting (internat) - Frozenciant Assumed operating satisfactionly Cean regularly 3 50% Uighting (internat) - Frozenciant Cean regularly Cean regularly 3 50% Uighting (internat) - Frozenciant Cean regularly Cean regularly 3 50% Uighting (internat) - Frozenciant Cean regularly Cean regularly 3 50% Uighting (internat) - Frozenciant Cean regularly Ce	18.06	Lighting (External) - Incandescent	Assumed operating satisfactorily	None	3	50%				0	0	0	0	0	0	0	0	0	0	1,265	0	1,265	0	1,265	1,265	100.0%
Lighing (internal) - Fluorescant Assumed operating satisfactority Clean regularly 3 50% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18.07	Lighting (External) - Fluorescant	Assumed operating satisfactorily	None	3	50%				0	0	0	0	0	0	0	0	0	0	2,530	0	2,530	0	2,530	2,530	100.0%
0. Total Electrical Services 0. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18.08	Lighting (Internal) - Incandescent	Assumed operating satisfactorily	Clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	4,744	0	4,744	0	4,744	4,744	100.0%
8.00 Total Elischtical Services	18.09	Lighting (Internal) - Fluorescant	Assumed operating satisfactorily	Clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	25,300	0	25,300	0	25,300	25,300	100.0%
9.00 Vertical Transportation										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.01 None 0 0 0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18.00	Total Electrical Services			3	50%				0	0	0	0	0	0	0	0	0	0	148,587	0	148,587	0	148,587	148,587	100.0%
9.00 Total Vertical Transportation 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19.00	Vertical Transportation								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00 Total Vertical Transportation 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Special Services O O O O O O O O O O O O O O O O O O O										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
None 3 50% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19.00	Total Vertical Transportation	†		0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.00	Special Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
0.00 Total Special Services 0 0 0 0 0 0 0 0 0 0 0 0 0 24,756 49,512 24,756 0 24,756 49,512 24,756 0 24,756 200.09 TOTAL BUILDING SERVICES 0 0 30,993 0 0 0 0 0 55,749 334,267 86,741 191,777 55,749 334,267 216,533 154.49	20.01	Telecommunication/Data Network	Assumed operating satisfactorily	None	3	50%				0	0	0	0	0	0	0	0	0	24,756	49,512	24,756	0	24,756	49,512	24,756	200.0%
TOTAL BUILDING SERVICES 3 50% 0 0 0 0 0 0 55,749 334,267 86,741 191,777 55,749 334,267 216,533 154.49										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
	20.00	Total Special Services			3	50%				0	0	0	0	0	0	0	0	0	24,756	49,512	24,756	0	24,756	49,512	24,756	200.0%
TOTAL BUILDING 3 50% 0 119,950 30,993 0 0 0 0 0 1,012 6,148 108,777 940,806 266,880 243,693 430,233 940,806 1,229,618 76.5%	С	TOTAL BUILDING SERVICES			3	50%				0	0	30,993	0	0	0	0	0	0	55,749	334,267	86,741	191,777	55,749	334,267	216,533	154.4%
		TOTAL BUILDING			3	50%				0	119,950	30,993	0	0	0	0	1,012	6,148	108,777	940,806	266,880	243,693	430,233	940,806	1,229,618	76.5%

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

D - MAINTENANCE

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



							Condition G	auge											_					_	
		Condit	ion Assessment	Condi	ition Grading	VG	G A	P VF	1	2	3	4	5	6	7	8	9	10			Asset Rer	ewal Cost	!		
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration	0-20 20 %	0-40 40-60 %	60-80 <mark>80-1</mark> %	2013 (\$ USD)		2015 (\$ USD)	2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace
1.00	Sub-Structure								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.01	Reinforced Concrete Foundations Beams	Not inspected	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,554	0.0%
1.02	Reinforced Concrete Slab on Grade	ок	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,009	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.00	Total Sub-Structure			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,563	0.0%
2.00	Frame								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.01	Structural Steel Frame (Portal)	Evidence of corrosion	Wire brush, rust treat and repaint	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,831	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.00	Total Frame			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,831	0.0%
3.00	Structural Walls								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.00	Total Structural Walls			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.00	Upper Floors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.00	Total Upper Floors			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Roof								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.01	Profiled Metal Sheet Roof Cladding (Pre-Finished)	Evidence of corrosion	Rust treat and repaint, clean regularly	4	70%				0	0	0	0	0	0	0	0	4,554	0	4,554	4,554	0	0	4,554	4,554	100.0%
5.02	Metal Gutters	Evidence of corrosion	Rust treat and repaint, clean regularly	4	70%				0	0	0	0	0	0	0	0	1,518	0	1,518	1,518	0	0	1,518	1,518	100.0%
5.03	Metal Down Pipes	Evidence of corrosion	Rust treat and repaint, clean regularly	4	70%				0	0	0	0	0	0	0	0	759	0	759	759	0	0	759	759	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Total Roof			4	70%				0	0	0	0	0	0	0	0	6,831	0	6,831	6,831	0	0	6,831	6,831	100.0%
6.00	External Walls & Finishes								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.04	Profiled Metal Sheet Wall Cladding (Pre-Finished)	Evidence of corrosion and rusted out areas	Cut and replace damage sheets, rust treat, repaint and clean regularly	4	70%				0	0	0	0	0	0	0	0	8,197	0	8,197	8,197	0	0	8,197	8,197	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.00	Total External Walls & Finishes			4	70%				0	0	0	0	0	0	0	0	8,197	0	8,197	8,197	0	0	8,197	8,197	100.0%
7.00	Windows & Doors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.01	Timber Doors (Solid/No Glazing)	OK but dirty	Clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	1,898	0	0	1,898	1,898	1,898	100.0%
7.02	Aluminium Framed Windows & Doors	OK but dirty	Clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	6,831	0	0	6,831	6,831	6,831	100.0%
7.03	Metal Garage Door	OK but dirty	Clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	3,795	0	0	3,795	3,795	3,795	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Total Windows & Doors			3	50%				0	0	0	0	0	0	0	0	0	0	12,524	0	0	12,524	12,524	12,524	100.0%
Α	TOTAL STRUCTURE			4	70%				0	0	0	0	0	0	0	0	15,028	0	27,552	15,028	0	12,524	27,552	43,946	62.7%
8.00	Stairs, Balustrades & Handrails								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.00	Total Stairs Balustrades & Handrails			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Internal Walls/Partitions								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

D - MAINTENANCE

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



						C	Condition G	auge	7																
		Condition	Assessment	Condi	tion Grading	VG G	A	P V	1	2	3	4	5	6	7	8	9	10			Asset Rei	newal Cost			
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration	0-20 20- %		60-80 80 -1 %	00 2013 (\$ USE			2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace
9.01	Timber Framed Partition Walls	Not inspected	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,186	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Total Internal Walls/Partitions			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,186	0.0%
10.00	Internal Doors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10.01	Timber Door - Single	ОК	None	3	50%				0	0	0	0	0	0	0	0	0	0	1,518	0	0	1,518	1,518	1,518	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10.00	Total Internal Doors			3	50%				0	0	0	0	0	0	0	0	0	0	1,518	0	0	1,518	1,518	1,518	100.0%
11.00	Floor Finishes								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
11.01	None			0	0%				0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
11.00	Total Floor Finishes			0	0%				0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
12.00	Wall Finishes								0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
12.01	Plywood/Hardboard Wall Linings with Painted Finishes	ок	Clean regularly	3	50%				0		0	0	0	0	0	0	0	0	4,645	0	0	4,645	4,645	4,645	100.0%
									0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
12.00	Total Wall Finishes			3	50%				0		0	0	0	0	0	0	0	0	4,645	0	0	4,645	4,645	4,645	100.0%
13.00	Ceiling Finishes								0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13.05	Plywood/Hardboard Ceiling Lining with Painted Finishes	OK .	Clean regularly	3	50%				0		0	0	0	0	0	0	0	0	740	0	740	0	740	740	100.0%
10.00					500/				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13.00	Total Ceiling Finishes			3	50%				0		0	0	0	0	0	0	0	0	740	0	740	0	740	740	100.0%
14.00 14.06	Fixed Joinery Units	ОК	None	3	50%				0		0	0	0	0	0	0	0	0	0 4,428	0	0	0	0	0	0.0%
14.00	Built-in Joinery - Generally, Benches, Shelves, Storage, etc	UK .	None	3	30%				0		0	0	0	0	0	0	0	0	4,426	0	4,428 0	0	4,428 0	4,428 0	100.0% 0.0%
14.00	Total Fixed Joinery Units			3	50%				0		0	0	0	0	0	0	0	0	4,428	0	4,428	0	4,428	4,428	100.0%
R	TOTAL INTERNAL FIT-OUT			3	50%				0		0	0	0	0	0	0	0	0	11,331	0	5,168	6,163	11,331	13,517	83.8%
15.00	Sanitary Plumbing			Ů	3078				0		0	0	0	0	0	0	0	0	0	0	0,100	0	0	0	0.0%
15.01	Generally - Sink, CW Supply and Drainage	Assumed OK	Clean regularly	3	50%				0		0	0	0	0	0	0	0	0	1,265	0	1,265	0	1,265	1,265	100.0%
		1		+					0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
15.00	Total Sanitary Plumbing		I.	3	50%				0		0	0	0	0	0	0	0	0	1,265	0	1,265	0	1,265	1,265	100.0%
16.00	Mechanical Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
16.01	Air-Conditioning - DX/Split System	Evidence of Corrosion on Condenser unit. Assumed	Service, clean regularly	4	70%				0	0	4,428	0	0	0	0	0	0	4,428	17,710	8,855	4,428	4,428	17,710	4,428	400.0%
		functioning							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
16.00	Total Mechanical Services		1	4	70%				0	0	4,428	0	0	0	0	0	0	4,428	17,710	8,855	4,428	4,428	17,710	4,428	400.0%
17.00	Fire Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
17.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
17.00	Total Fire Services			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
18.00	Electrical Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
18.01	Main Distribution Boards	Assumed functioning	Service regularly	3	50%				0	0	0	0	0	0	0	0	0	0	1,898	0	1,898	0	1,898	1,898	100.0%
18.03	Electrical Wiring/Reticulation	Assumed functioning	Service regularly	3	50%				0	0	0	0	0	0	0	0	0	0	1,366	0	1,366	0	1,366	1,366	100.0%
18.04	General Power Outlet	Assumed functioning	Service regularly	3	50%				0	0	0	0	0	0	0	0	0	0	1,822	0	1,822	0	1,822	1,822	100.0%
<u> </u>																					L	<u> </u>			

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

D - MAINTENANCE

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN

Audit Date: October 2013



						С	Condition Ga	uge																	
			Condition Assessment	Cond	tion Grading	VG G	A	P VP	1	2	3	4	5	6	7	8	9	10			Asset Rer	ewal Cost		1	
D Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration	0-20 20-4 %	40 40-60 %	60-80 %	0 2013 (\$ USD)			2016 (\$ USD)		2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Ful Replac
8.06	Lighting (External)	Assumed functioning	Service regularly	3	50%				0	0	0	0	0	0	0	0	0	0	455	0	455	0	455	455	100.0%
18.09	Lighting (Internal)	Assumed functioning	Service regularly	3	50%				0	0	0	0	0	0	0	0	0	0	1,822	0	1,822	0	1,822	1,822	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.00	Total Electrical Services			3	50%				0	0	0	0	0	0	0	0	0	0	7,362	0	7,362	0	7,362	7,362	100.0%
9.00	Vertical Transportation								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Total Vertical Transportation			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
20.00	Special Services								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
20.01	Telecommunication/Data Network	Assumed functioning	None	3	50%				0	0	0	0	0	0	0	0	0	633	1,265	633	0	633	1,265	633	200.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
20.00	Total Special Services			3	50%				0	0	0	0	0	0	0	0	0	633	1,265	633	0	633	1,265	633	200.0%
;	TOTAL BUILDING SERVICES			4	70%				0	0	4,428	0	0	0	0	0	0	5,060	27,602	9,488	13,055	5,060	27,602	13,687	201.7%
	TOTAL BUILDING			4	70%				0	0	4,428	0	0	0	0	0	15,028	5,060	66,485	24,516	18,222	23,747	66,485	71,150	93.4%

Year 1 - 10 Consolidated Capital Replacement Cost

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

E - SHOWER HOUSE

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



		Odist	on Assessment	Cond	ition Grading		ondition Gauge	\/B	1 1	2	3 1	4 1	5 1	e 1	7		•	10	1		Asset Ren	owal Cost		7	
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition		VG G	A P 40 40-60 60-8		2013	2014	2015	2016	2017	2018	2019	2020	2021		Total	Year 1-10	Year 11-20	Year 21-30	Grand	Full	% Full
ID Code	Lienen	Condition Observations	Recommended Godise of Action & Maintenance	Grade	% Deterioration	% %		%				(\$ USD) ((\$ USD)			(\$ USD)	Total	Total	Total	Renewal	Replace	Replace
1.00	Sub-Structure								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.01	Reinforced Concrete Foundations Beams	Not inspected	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,072	0.0%
1.03	Reinforced Concrete Slab on Grade	Not inspected	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,453	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.00	Total Sub-Structure			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,525	0.0%
2.00	Frame								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.01	Timber Frame (Truss)	Evidence of decay	Repair locally and clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	7,558	0	0	7,558	7,558	7,558	100.0%
2.02	Reinforced Concrete Columns & Beams	ок	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,148	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.00	Total Frame			3	50%				0	0	0	0	0	0	0	0	0	0	7,558	0	0	7,558	7,558	13,706	55.1%
3.00	Structural Walls								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.01	Reinforced Concrete Brick/Block Masonry Walls	ок	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,038	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.00	Total Structural Walls			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,038	0.0%
4.00	Upper Floors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.00	Total Upper Floors			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Roof								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.01	Profiled Metal Sheet Roof Cladding (Pre-Finished)	Debris on roof, protective coating is fading	Clear debris and clean regularly	3	50%				0	0	0	0	0	0	0	0	0	0	7,558	0	7,558	0	7,558	7,558	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Total Roof			3	50%				0	0	0	0	0	0	0	0	0	0	7,558	0	7,558	0	7,558	7,558	100.0%
6.00	External Walls & Finishes								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.02	Solid Plaster Cladding with Painted Finishes	ОК	Wash regularly and repaint on maintenance programme	3	50%				0	0	0	0	0	0	0	0	0	0	7,681	0	0	7,681	7,681	7,681	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.00	Total External Walls & Finishes			3	50%				0	0	0	0	0	0	0	0	0	0	7,681	0	0	7,681	7,681	7,681	100.0%
7.00	Windows & Doors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Total Windows & Doors			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
A	TOTAL STRUCTURE			3	50%				0	0	0	0	0	0	0	0	0	0	22,798	0	7,558	15,240	22,798	59,508	38.3%
8.00	Stairs, Balustrades & Handrails								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.00	Total Stairs Balustrades & Handrails			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Internal Walls/Partitions		1						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.01	None - See Structural Walls			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Total Internal Walls/Partitions			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
	<u> </u>	1	L	I	1													<u> </u>			l			ь	

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E - SHOWER HOUSE

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



							0																		
		Condition	n Assessment	Condi	tion Grading	VG	Condition G A	n Gauge	VP	1 2	3	4	5	6	7	8	9	10]		Asset Re	newal Cost		1	
D Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition	%	0-20	20-40 40-			013 20				2018	2019	2020	2021	2022	Total	Year 1-10	Year 11-20		Grand	Full	% Fu
	Literat Para			Grade	Deterioration	%	% %	%		JSD) (\$ U									(\$ USD)	Total	Total	Total	Renewal Total	Replace	Replac
0.00	Internal Doors	Evidence of impact demands made at	Descript and place see deep.	4	700/					0 0		0	0	0	0	0	0	0	3,036	0	0	0	0	0	0.0%
0.01	Timber Door - Single	Evidence of impact damage, marks, etc	Repaint and clean regularly	4	70%					0 0		0	0	0	0	0	0	0	0	0	3,036	0	3,036	3,036	0.0%
.00	Total Internal Doors			4	70%					0 0	0	0	0	0	0	0	0	0	3,036	0	3,036	0	3,036	3,036	100.0
.00	Floor Finishes									0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
01	Tiled Floor Finishes	Odd missing tile, generally untidy/unclean by appearance	Acid clean or consider early replacement	4	70%					0 0		0	0	0	0	0	7,286	0	7,286 0	7,286 0	0	0	7,286 0	7,286	100
00	Total Floor Finishes			4	70%					0 0		0	0	0	0	0	7,286	0	7,286	7,286	0	0	7,286	7,286	100
00	Wall Finishes									0 0		0	0	0	0	0	0	0	0	0	0	0	0	0	0.
01	Plastered wall finishes with painted finishes	OK, needs cleaning	Wash regularly and repaint on maintenance programme	3	50%					0 0		0	0	0	0	0	0	6,394	12,788	6,394	0	6,394	12,788	6,394	20
02	Tiled Wall Finishes	Odd missing tile, generally untidy/unclean by appearance	Acid clean or consider early replacement	4	70%					0 0	0	0	0	0	0	0	14,755	0	14,755	14,755	0	0	14,755	14,755	10
				1						0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00	Total Wall Finishes		<u> </u>	4	70%					0 0	0	0	0	0	0	0	14,755	6,394	27,543	21,149	0	6,394	27,543	21,149	13
00	Ceiling Finishes									0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
01	None			0	0%					0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
										0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
00	Total Ceiling Finishes			0	0%					0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
.00	Fixed Joinery Units									0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
01	None			0	0%					0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o
										0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00	Total Fixed Joinery Units			0	0%					0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL INTERNAL FIT-OUT			4	70%					0 0	0	0	0	0	0	0	22,041	6,394	37,865	28,435	3,036	6,394	37,865	31,471	12
00	Sanitary Plumbing									0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
01	wc	ОК	Clean regularly	3	50%					0 0	0	0	0	0	0	0	0	0	7,590	0	7,590	0	7,590	7,590	10
01	Shower	ок	Clean regularly	3	50%					0 0	0	0	0	0	0	0	0	0	5,693	0	5,693	0	5,693	5,693	10
02	Urinal (Stall)	ОК	Clean regularly	2	30%					0 0	0	0	0	0	0	0	0	0	6,831	0	0	6,831	6,831	6,831	10
.04	WHB	ОК	Clean regularly	2	30%					0 0	0	0	0	0	0	0	0	0	4,428	0	0	4,428	4,428	4,428	10
										0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
.00	Total Sanitary Plumbing			3	50%					0 0	0	0	0	0	0	0	0	0	24,541	0	13,283	11,259	24,541	24,541	100
.00	Mechanical Services									0 0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
.01	None			0	0%					0 0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
											0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00	Total Mechanical Services			0	0%					0 0		0	0	0	0	0	0	0	0	0	0	0	0	0	(
00	Fire Services			0	00/					0 0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
01	None			0	0%					0 0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
00	Total Fire Consisses				00/						0			0	0	0	0	0	0	0	0	0	0	0	0
.00	Total Fire Services Electrical Services			0	0%						0	0	0	0	0	0	0	0	0	0	0	0	0	0	,
3.00		OK missing light hulb	Clean requiarly	2	E00/					0 0		0	0	0	0	0	0	0	0 840	0	810	0	810	810	10
3.03	Lighting	OK, missing light bulb	Clean regularly	3	50%					0 0		0	0	0	0	0	0	0	810	0	810	0	810	810	10

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E - SHOWER HOUSE

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN

Audit Date: October 2013

Revision: Fir



							Conditio	n Gauge																		
		Conc	ition Assessment	Condi	tion Grading	VG	G	A P	VP	1	2	3	4	5	6	7	8	9	10			Asset Rer	newal Cost		1	
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration	0-20 %		-60 60-80 %		2013 (\$ USD)	2014 (\$ USD)	2015 (\$ USD)	2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace
18.00	Total Electrical Services			3	50%					0	0	0	0	0	0	0	0	0	0	810	0	810	0	810	810	100.0%
19.00	Vertical Transportation									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
19.01	None			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
19.00	Total Vertical Transportation			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
20.00	Special Services									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
20.01	None			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
20.00	Total Special Services		*	0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
С	TOTAL BUILDING SERVICES			3	50%					0	0	0	0	0	0	0	0	0	0	25,351	0	14,092	11,259	25,351	25,351	100.0%
	TOTAL BUILDING			4	70%					0	0	0	0	0	0	0	0	22,041	6,394	86,014	28,435	24,687	32,892	86,014	116,330	73.9%
														21	3,435											

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						(Condition Gaug	9																-	
		Condition	n Assessment	Condi	ition Grading	VG C	G A	VP	1	2	3	4	5	6	7	8	9	10			Asset Rer	ewal Cost			
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration		40-60 60 %	-80 80-100 %	2013 (\$ USD)			2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replace
1.00	Sub-Structure								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.01	Reinforced Concrete Foundations Beams	Not inspected	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,301	0.0%
1.02	Reinforced Concrete Slab on Grade	Not inspected	None	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,435	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.00	Total Sub-Structure			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,736	0.0%
2.00	Frame								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.02	Timber Frame (Truss)	ОК	None	3	50%				0	0	0	0	0	0	0	0	0	0	4,591	0	0	4,591	4,591	4,591	100.0%
								_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.00	Total Frame			3	50%				0	0	0	0	0	0	0	0	0	0	4,591	0	0	4,591	4,591	4,591	100.0%
3.00	Structural Walls								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.01	Reinforced Concrete Block Masonry Walls with	ОК	Wash regularly and repaint on maintenance programme	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,516	0.0%
	Painted Finishes							_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.00	Total Structural Walls			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,516	0.0%
4.00	Upper Floors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.01	None			0	0%		_		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
							_		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.00	Total Upper Floors			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Roof				070				0	0			0	0	0	0		0	0	0	0	0	0	0	0.0%
5.01		Evidence covers correction burriagns demand etc.	Replace	5	90%				0	0	4,591	0	0	0	0	0	0	0	4,591	4,591	0	0	4,591		100.0%
5.01	Profiled Metal Sheet Roof Cladding (Pre-Finished)	Evidence severe corrosion, numcane damage, etc	керысе	3	90%				0	0	0	0	0	0	0	0	0	0						4,591	
	Turing				000/														0	0	0	0	0	0	0.0%
5.00	Total Roof			5	90%				0	0	4,591	0	0	0	0	0	0	0	4,591	4,591	0	0	4,591	4,591	100.0%
6.00	External Walls & Finishes								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.01	None - See Structural Walls			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.00	Total External Walls & Finishes			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Windows & Doors								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.01	Timber/Metal Framed Windows & Doors	Evidence of decay and corrosion	Repair, Repaint or consider early replacement	4	70%				0	0	0	0	0	0	0	0	0	0	8,043	0	8,043	0	8,043	8,043	100.0%
7.02	Timber Doors (Solid/No Glazing)	Evidence of decay	Repair, Repaint or consider early replacement	4	70%				0	0	0	0	0	0	0	0	0	0	1,898	0	1,898	0	1,898	1,898	100.0%
7.03	Metal Security Screens	Evidence of corrosion	Wire brush clean, rust treat, repaint or consider early replacement	4	70%				0	0	0	0	0	0	0	0	0	0	1,892	0	1,892	0	1,892	1,892	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Total Windows & Doors			4	70%				0	0	0	0	0	0	0	0	0	0	11,833	0	11,833	0	11,833	11,833	100.0%
Α	TOTAL STRUCTURE			4	70%				0	0	4,591	0	0	0	0	0	0	0	21,015	4,591	11,833	4,591	21,015	36,267	57.9%
8.00	Stairs, Balustrades & Handrails								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.00	Total Stairs Balustrades & Handrails			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Internal Walls/Partitions								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
		1														<u> </u>					<u> </u>	<u> </u>		<u> </u>	<u></u>

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

F - SECURITY POST

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



							Condition	n Gauge																		
		Condition	Assessment	Condit	ion Grading	VG	G A	Р	VP	1	2	3	4	5	6	7	8	9	10			Asset Rer	ewal Cost		1	
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration	0-20 %	20-40 40- % %	-60 60-80 % %		2013 (\$ USD)	2014 (\$ USD)		2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)		2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal	Full Replace	% Full Replace
9.00	Total Internal Walls/Partitions			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	Total 0	0	0.0%
10.00	Internal Doors									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10.01	None			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10.00	Total Internal Doors			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
11.00	Floor Finishes									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
11.02	Vinyl Floor Finishes	Evidence marks, tears, worn through, etc	Replace	5	90%					0	1,771	0	0	0	0	0	0	0	0	3,542	1,771	0	1,771	3,542	1,771	200.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
11.00	Total Floor Finishes			5	90%					0	1,771	0	0	0	0	0	0	0	0	3,542	1,771	0	1,771	3,542	1,771	200.0%
12.00	Wall Finishes									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
12.01	None - See Structural Walls			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
12.00	Total Wall Finishes			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13.00	Ceiling Finishes			_						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13.01	Plywood Ceiling Lining with Painted Finishes	ок	Repaint and clean regularly	3	50%					0	0	0	0	0	0	0	0	0	0	2,103	0	2,103	0	2,103	2,103	100.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
13.00	Total Ceiling Finishes			3	50%					0	0	0	0	0	0	0	0	0	0	2,103	0	2,103	0	2,103	2,103	100.0%
14.00	Fixed Joinery Units				500/					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
14.07	Built-in Joinery - Bench Unit	ОК	Clean regularly	3	50%					0	0	0	0	0	0	0	0	0	0	633	0	633	0	633	633	100.0%
14.09	Built-in Joinery - Shelving Unit	Outdoors, tired but OK (serves purpose)	Clean regularly Consider replacement or maintain	4	70%					0	0	0	0	0	0	0	0	9,488	0	9,488	9,488	633	0	9,488	633 9,488	100.0%
14.03	Security Booth	Outdoors, area but ON (serves purpose)	Consider replacement of maintain	7	70%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
14.00	Total Fixed Joinery Units			4	70%					0	0	0	0	0	0	0	0	9,488	0	10,753	9,488	1,265	0	10,753	10,753	100.0%
В	TOTAL INTERNAL FIT-OUT			4	70%					0	1,771	0	0	0	0	0	0	9,488	0	16,398	11,259	3,368	1,771	16,398	14,627	112.1%
15.00	Sanitary Plumbing									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
15.01	None			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
15.00	Total Sanitary Plumbing			0	0%	-				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
16.00	Mechanical Services					-				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
16.01	None			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
16.00	Total Mechanical Services			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
17.00	Fire Services		1							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
17.01	None			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
17.00	Total Fire Services			0	0%					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
18.00	Electrical Services									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
18.01	Sub-Main Distribution Boards	Assumed functioning OK	Service regularly	3	50%					0	0	0	0	0	0	0	0	0	0	1,265	0	1,265	0	1,265	1,265	100.0%
18.02	Electrical Wiring/Reticulation	Assumed functioning OK	Service regularly	3	50%					0	0	0	0	0	0	0	0	0	0	443	0	443	0	443	443	100.0%
18.03	General Power	Assumed functioning OK	Service regularly	3	50%					0	0	0	0	0	0	0	0	0	0	443	0	443	0	443	443	100.0%
1	1	1	1	1	<u> </u>						i				1		1	1	I			l	l		<u> </u>	

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

F - SECURITY POST

Document: CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN

Audit Date: October 2013

Revision: Final



							Conditi	ion Gauge	<u> </u>																		
			Condition Assessment	Cond	ition Grading	VG	G	A P	VP	1	2	3	4	5	6	7	8	,	9	10			Asset Re	newal Cost		1	
D Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deterioration	0-20 %		0-60 % 60-80 %	80-100 %	2013 (\$ USD)	2014 (\$ USD)	2015 (\$ USD)	2016 (\$ USD)	2017 (\$ USD)		201: (\$ US		0 20 SD) (\$ U	021 JSD) (2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Renewal Total	Full Replace	% Full Replac
8.04	Lighting (External)	Assumed functioning OK	Service regularly	3	50%					0	0	0	0	0	0	0	0	(0	0	221	0	221	0	221	221	100.0%
8.05	Lighting (Internal)	Assumed functioning OK	Service regularly	3	50%					0	0	0	0	0	0	0	0	(0	0	443	0	443	0	443	443	100.0%
										0	0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0	0.0%
18.00	Total Electrical Services			3	50%					0	0	0	0	0	0	0	0	(0	0	2,815	0	2,815	0	2,815	2,815	100.0%
19.00	Vertical Transportation									0	0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0	0.0%
19.01	None			0	0%					0	0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0	0.0%
										0	0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0	0.0%
19.00	Total Vertical Transportation			0	0%					0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.0%
20.00	Special Services									0	0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0	0.0%
20.01	Telecommunication/Data Network	Assumed functioning OK	Service regularly	3	50%					0	0	0	0	0	0	0	0	(0	633	1,265	633	0	633	1,265	633	200.0%
20.02	Security Services (Alarms)	Assumed functioning OK	Service regularly	3	50%					0	0	0	0	0	0	0	0	(0	633	1,265	633	0	633	1,265	633	200.0%
										0	0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0	0.0%
0.00	Total Special Services			3	50%					0	0	0	0	0	0	0	0		0	1,265	2,530	1,265	0	1,265	2,530	1,265	200.0%
;	TOTAL BUILDING SERVICES			3	50%					0	0	0	0	0	0	0	0		0	1,265	5,345	1,265	2,815	1,265	5,345	4,080	131.0%
	TOTAL BUILDING			4	70%					0	1,771	4,591	0	0	0	0	0	9,4	488	1,265	42,757	17,115	18,015	7,627	42,757	54,973	77.8%

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

SITE INFRASTRUCTURE

Document CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN



						Co	ondition Gau	ıge																	
		Condition	Assessment	Conditio	n Grading	VG G	А	P VP	1	2	3	4	5	6	7	8	9	10			Asset Ren	ewal Cost			
ID Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deter.	0-20 20-40 % %	0 40-60 6	60-80 80-10 %	0 2013 (\$ USD)	2014 (\$ USD)	2015 (\$ USD)	2016 (\$ USD)	2017 (\$ USD)	2018 (\$ USD)	2019 (\$ USD)	2020 (\$ USD)	2021 (\$ USD)	2022 (\$ USD)	Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Total	Full Replace	% Full Replace
1.00	Roading			Oraco	20.0	N N	72	70 70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.01	Gravel Roads	Poor	Import, spread and compact new gravel	4	70%				0	1,518	0	0	0	0	1,518	0	0	0	7,590	3,036	3,036	1,518	7,590	1,518	500.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
1.00	Total Roading			4	70%				0	1,518	0	0	0	0	1,518	0	0	0	7,590	3,036	3,036	1,518	7,590	1,518	500.0%
2.00	Car Parks								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.01	Gravel Car Parks	Poor	Import, spread and compact new gravel	4	70%				0	1,518	0	0	0	0	1,518	0	0	0	7,590	3,036	3,036	1,518	7,590	1,518	500.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
2.00	Total Car Parks			4	70%				0	1,518	0	0	0	0	1,518	0	0	0	7,590	3,036	3,036	1,518	7,590	1,518	500.0%
3.00	Foot Paths & Circulation Areas								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.02	Reinforced Concrete Foot Paths & Circulation Areas	ок	Maintain	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49,783	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.00	Total Foot Paths & Collection Areas			3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49,783	0.0%
4.00	Fences & Gates								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.02	Chain Link Fences (Basket Ball Pavement)	Missing mesh	Replace	5	90%				0	0	0	0	10,626	0	0	0	0	0	10,626	10,626	0	0	10,626	10,626	100.0%
	(Sand San at anon)								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
4.00	Total Fences & Gates			5	90%				0	0	0	0	10,626	0	0	0	0	0	10,626	10,626	0	0	10,626	10,626	100.0%
5.00	Structures								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.01	Generator/Transformer Building (Connected to Building C)			4	70%				0	0	0	0	0	0	0	0	0	0	254,720	0	254,720	0	254,720	254,720	100.0%
5.02	Carport (Connected to Building C)			4	70%				0	0	0	0	0	0	0	0	0	0	121,440	0	121,440	0	121,440	121,440	100.0%
5.03	Storage Shed (Connected to Building C)			4	70%				0	0	0	0	0	0	0	0	0	0	21,859	0	21,859	0	21,859	21,859	100.0%
5.04	Basketball Court			5	90%				0	0	0	0	170,775	0	0	0	0	0	170,775	170,775	0	0	170,775	170,775	100.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
5.00	Total Structures			5	90%				0	0	0	0	170,775	0	0	0	0	0	568,795	170,775	398,020	0	568,795	568,795	100.0%
6.00	Retaining Walls								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.01	None			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
6.00	Total Retaining Walls			0	0%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Site Drainage								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.01	Swales	Assumed operating satisfactorily	Maintain	3	50%				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,325	0.0%
7.02	Soak Pits	Assumed operating satisfactorily	Maintain	3	50%				0	0	0	0	12,650	0	0	0	0	0	37,950	12,650	12,650	12,650	37,950	12,650	300.0%
7.03	Manholes	Assumed operating satisfactorily	Maintain	3	50%				0	0	0	0	0	0	0	0	0	0	25,300	0	0	25,300	25,300	25,300	100.0%
7.04	Inground Piped Sewer Drainage	Assumed operating satisfactorily	Maintain	3	50%				0	0	0	0	0	0	0	0	0	0	37,950	0	0	37,950	37,950	37,950	100.0%
7.05	Sceptic Tanks	Assumed operating satisfactorily	Maintain	3	50%				0	0	0	0	0	0	0	0	0	0	11,385	0	0	11,385	11,385	11,385	100.0%
7.06	Pumps	Assumed operating satisfactorily	Maintain	3	50%				0	0	0	0	0	0	0	0	0	6,325	12,650	6,325	0	6,325	12,650	6,325	200.0%
									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
7.00	Site Drainage			3	50%				0	0	0	0	12,650	0	0	0	0	6,325	125,235	18,975	12,650	93,610	125,235	99,935	125.3%
8.00	Electrical Infrastructure			<u> </u>					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
8.01	Temporary Generators & Fuel Storage	Assumed operating satisfactorily	Maintain	3	50%				0	0	0	0	0	0	0	0	0	0	379,500	0	379,500	0	379,500	379,500	100.0%
8.02	Transformers	Assumed operating satisfactorily	Maintain	3	50%				0	0	0	0	0	0	0	0	0	0	44,275	0	44,275	0	44,275	44,275	100.0%
					1																			<u> </u>	<u> </u>

Campus: FSM-FMI (FISHERIES & MARITIME INSTITUTE), GAGIL, YAP STATE

SITE INFRASTRUCTURE

CONDITION ASSESSMENT & ASSET MANAGEMENT PLAN

Audit Date: October 2013



							Cond	ition Gau	ige																	
			Condition Assessment	Condition	n Grading	VG	G	Α	P VP	1	2	3	4	5	6	7	8	9	10	1		Asset Re	newal Cost		1	
D Code	Element	Condition Observations	Recommended Course of Action & Maintenance	Condition Grade	% Deter.	0-20 %	20-40 %	40-60	60-80 <mark>80-1</mark> %	2013 (\$ USD)		2015 (\$ USD)			2018 (\$ USD)		2020 (\$ USD)			Total (\$ USD)	Year 1-10 Total	Year 11-20 Total	Year 21-30 Total	Grand Total	Full Replace	% Full Replace
3.03	HV/LV Electrical Reticulation	Assumed operating satisfactorily	Maintain	3	50%					0	0	0	0	0	0	0	0	0	0	56,925	0	56,925	0	56,925	56,925	100.0%
8.04	Lighting Poles	Assumed operating satisfactorily	Maintain	3	50%					0	0	0	0	0	0	0	0	0	0	10,120	0	10,120	0	10,120	10,120	100.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
3.00	Total Electrical Infrastructure			3	50%					0	0	0	0	0	0	0	0	0	0	490,820	0	490,820	0	490,820	490,820	100.0%
9.00	Water Services									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.01	Incoming Water Mains	Assumed operating satisfactorily	Maintain	3	50%					0	0	0	0	0	0	0	0	0	0	25,300	0	0	25,300	25,300	25,300	100.0%
9.02	Water Reticulation	Assumed operating satisfactorily	Maintain	3	50%					0	0	0	0	0	0	0	0	0	0	15,180	0	0	15,180	15,180	15,180	100.0%
9.03	Meters	Assumed operating satisfactorily	Maintain	3	50%					0	0	0	0	0	0	0	0	0	0	7,590	0	0	7,590	7,590	7,590	100.0%
9.04	Water Storage Tanks	Assumed operating satisfactorily	Maintain	3	50%					0	0	0	0	0	0	0	0	0	0	6,325	0	0	6,325	6,325	6,325	100.0%
9.05	Pumps	Assumed operating satisfactorily	Maintain	3	50%					0	0	0	0	0	0	0	0	0	3,163	6,325	3,163	0	3,163	6,325	3,163	200.0%
9.06	Hydrants	Assumed operating satisfactorily	Maintain	3	50%					0	0	0	0	0	0	0	0	0	0	3,795	0	0	3,795	3,795	3,795	100.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
9.00	Total Water Services			3	50%					0	0	0	0	0	0	0	0	0	3,163	64,515	3,163	0	61,353	64,515	61,353	105.2%
10.00	Site Furniture									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10.01	Site Furniture Generally	ОК	Maintain	3	50%					0	0	0	0	0	0	0	0	0	0	12,650	0	12,650	0	12,650	12,650	100.0%
										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
10.00	Total Site Furniture			3	50%					0	0	0	0	0	0	0	0	0	0	12,650	0	12,650	0	12,650	12,650	100.0%
	TOTAL SITE INFRASTRUCTURE									0	3,036	0	0	194,051	0	3,036	0	0	9,488	1,287,821	209,611	920,212	157,999	1,287,821	1,296,997	99.3%

Year 1 - 10 Consolidated Capital Replacement Cost

Project:	COLLEGE O	F MICRONESIA -	FSM
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DOCUMENT: BUILDING, SERVICES & SITE INFRASTRUCTURE QUESTIONNAIRE

Audit Date:

Note to Questionnaire: The majority of the questions have been geared towards answering on a building basis and each comment should be included in the building column to which it relates. Site Infrastructure questions that are more geared site wide, you are to note in brackets (site wide) and then your answer to the question in the column closest to the left. Several abbreviations have been used below and we note the main ones used are as follows: FM=Facilities Managerr/Facilities Management Team, H&S=Health and Safety, AC=Air Conditioning.

Beca/FM Meeting Date:	
Discussion With:	
Position:	
Phone:	
Email:	



		Building A	Building B	Building C	Building D	Building E	Building F	Outbuildings
Category	Questionnaire	Administration/Student Services &	Staff Housing	Classrooms, Library & Shops	Maintenance	Shower House	Security Post	i.e. Generator Buildings, e
Campus Particulars	How many students are on site?	Residence/Mess Hall 59 (housing capacity is sixty)		1		<u> </u>		
	How many teachers are on site?	10						
		10						
	Is there a Caretaker on-site? Part time or Full time? (please circle)	security and faculty and staff leaving on can	npus.					
	What are the campus Operating Hours - Week Days	8:00 am to 5:00 pm						
	What are the campus Operating Hours - Weekends	Closed (except for the dining hall)						
	What are the campus Operating Hours - Public Holidays (If applicable)	Closed (except for the dining hall)						
Energy Records	What is the Monthly or Annual Energy Consumption Cost for Power, Gas, Electrica (State All) - Copies of Bills Required (By Building or Whole Campus) One meter forall the campus and the campus uses about 9140 kwh/month.	al 9140 for all buildings on campus.						
Building Particulars	What is the approximate age of the buildings. Also state approximate date of last	40 plus years	17 years	40 plus years	17 yes	10 years	40 years plus	
•	refurbishment (Comment in adjacent cells): Who constructed the building structures (i.e. America, Japan or Local)	US contractors	LOCAL	US contractors	Local Conractor	. ,	. ,	
	Have any major repair works been recently undertaken e.g. Concrete crack/patch repairs, replacement of timber framing damaged by termites, replacing corroded steel elements, painting, services overhaul, etc and the like.	Painting painting and portion of interior. Ceramic tile replacement.	Exteriror Painting and minor repairs.	Painting painting and portion of interior.	Building frames steel structure are beginning to rust.	Painting, plumbing and builing minor repairs.	Exterior and interior Painting and minor repairs.	
	Have you taken any photos previously and/or can provide photos showing roof cladding (Note: Only roof cladding that is not visible from ground level), sub floor framing/sub-floor void and ceiling cavity/roof framing for each or some of the buildings located on the campus?	None	NO Photo but roofing sheets are rusted.	None	None	Roof structure is in good condition	Roofing sheets are deteriorating and may need replacement soon.	
	In addition to the above, are there any other 'intrusive' photos of buildings (such as of wall cavities) that have been taken of any of the buildings and can you provide these?	None	None	None	None	None	none	
	Has any of the cladding recently been removed to inspect the condition of framing to either the floor, walls, ceiling or roof of a building on the campus? If so please explain and provide photos if possible.	No	No	No	No	no	No	
	Please list any current known problems with the campus buildings (List problems below and note which buildings are affected in the adjacent cells and where):	Resealing of roof and typhoon shutters need to be replaced.	ds May need roofing sheet replacement.Center half of the roof is developing rust.	Resealing of roof, Need to replace the old A units.	C Building frames steel structure are beginning to rust.	Roof structure is in good condition	Roofing sheets are developing rust will soon needs replacement	
	e.g. Subsidence issues, water leaks, Termite attack, cracking or spalling concrete, exposed reinforcing steel, corrosion, Hurricane/Typhoon Damage, AC/Ventilation plant problems, electrical problems, water supply problems, sewer blockages, etc							
Programmed Maintena	nce Is there programmed maintenance for the following: (Mark answer in adjacent building cells or comment in general) Building Washing (By FM or Sub-Contract)	Who does it: Facility Maintenance staff What is done: Water Pressure washing	Who does it: Facility Maintenance staff What is done: Water Pressure washing	Who does it: Facility Maintenance staff What is done: Water Pressure washing	Who does it: Facility Maintenance staff What is done: Water Pressure washing	Who does it: Facility Maintenance staff What is done: Water Pressure washing		
		Frequency: AS needed basis	Frequency: AS needed basis	Frequency: AS needed basis	Frequency: AS needed basis	Frequency: AS needed basis		
	Termite Protection (By FM or Sub-Contract)	Who does it: Never been done	Who does it: Never been done	Who does it: Never been done	Who does it: Never been done	Who does it: Never been done		
		What is done: By Contractor if ncecessary	What is done: By Contractor if ncecessary	What is done: By Contractor if ncecessary	What is done: By Contractor if ncecessary	What is done: By Contractor if ncecessary		
		Frequency: As Required	Frequency: As Required	Frequency: As Required	Frequency: As Required	Frequency: As Required		
	Painting Programme (By FM or Sub-Contract)	Who does it: Contractor and Facility Maintenance Staff	Who does it: Contractor and Facility Maintenance Staff	Who does it: Contractor and Facility Maintenance Staff	Who does it: Contractor and Facility Maintenance Staff	Who does it: Contractor and Facility Maintenance Staff		
		What is done: Pressure wash building exterior, srape and paint.	What is done: Pressure wash building exterior, srape and paint.	What is done: Pressure wash building exterior, srape and paint.	What is done: Pressure wash building exterior, srape and paint.	What is done: Pressure wash building exterior, srape and paint.		
		Frequency:AS needed basis	Frequency:AS needed basis	Frequency:AS needed basis	Frequency:AS needed basis	Frequency:AS needed basis		
	Minor Building Repair Works (By FM or Sub-Contract)	Who does it:By FacilityMaintenance staff	Who does it:By FacilityMaintenance staff	Who does it:By FacilityMaintenance staff	Who does it:By FacilityMaintenance staff	Who does it:By FacilityMaintenance staff		
I		What is done: Replacement of doors, interior	or What is done: Replacement of doors, interior			What is done: Replacement of doors, interior		

Project:	COLLEG	E OF MICRONESIA	- FSN

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	Discussion With:	
	Position:	
	Position:	
	Phone:	
,	1 116116.	
	Email:	



		Building A	Building B	Building C	Building D	Building E	Building F	Outbuildings
Category	Questionnaire	Administration/Student Services & Residence/Mess Hall	Staff Housing	Classrooms, Library & Shops	Maintenance	Shower House	Security Post	i.e. Generator Buildings, et
		Frequency: Monthly inspection followed by	Frequency: Monthly inspection followed by repairs as needed.	Frequency: Monthly inspection followed by		Frequency: Monthly inspection followed by		
		repairs as needed.	•	repairs as needed.	repairs as needed.	repairs as needed.		
	HVAC Servicing and Filter Changes (By FM or Sub-Contract)	Who does it:By FacilityMaintenance staff	Who does it:By FacilityMaintenance staff	Who does it:By FacilityMaintenance staff	Who does it:By FacilityMaintenance staff			
		What is done: Wash and reinstall	What is done: Wash and reinstall	What is done: Wash and reinstall	What is done: Wash and reinstall			
		Frequency: Monthly.	Frequency: Monthly.	Frequency: Monthly.	Frequency: Monthly.			
	Servicing of Security Services (By FM or Sub-Contract)	Who does it: N/A	Who does it: N/A	Who does it: N/A	Who does it: N/A			
		What is done: N/A	What is done: N/A	What is done: N/A	What is done: N/A			
		What is done. 1474	What is done. HAY	What is done. 14/1	What is done. N/X			
		Frequency: N/A	Frequency: N/A	Frequency: N/A	Frequency: N/A			
	Servicing of Fire Protection Services (By FM or Sub-Contract)	Who does it:	Who does it:	Who does it:	Who does it:			
		What is done:	What is done:	What is done:	What is done:			
		Frequency:	Frequency:	Frequency:	Frequency:			
	Plumbing and Drainage Maintenance (By FM or Sub-Contract)	Who does it: Facility Maintenance staff	Who does it: Facility Maintenance staff	Who does it: Facility Maintenance staff	Who does it: Facility Maintenance staff			
		What is done: Repairs and as needed.	What is done: Repairs and as needed.	What is done: Repairs and as needed.	What is done: Repairs and as needed.			
		·	·	·	·			
		Frequency: As needed basis	Frequency: As needed basis	Frequency: As needed basis	Frequency: As needed basis			
	Other: (Please State below)	Who does it:	Who does it:	Who does it:	Who does it:			
		What is done:	What is done:	What is done:	What is done:			
		Frequency:	Frequency:	Frequency:	Frequency:			
Air Conditioning Services	What is the AC Type - DX/Split System, VRF System, Water Cooled System,	Split Units and window mount	Split Units and window mount	Split Units and window mount	Split Units and window mount	None	none	
_	Other Are there any Complaints about the Services from Users? (Note Examples)	none	none	none	none	N/A	N/A	
	Are Plant Systems Manual or Automated? Are Systems left on when not needed?	Not applicable	Not applicable	Not applicable	Not applicable	N/A	N/A	
	What is the maintenance history? (i.e. what has been done and when)	Not available	Not available	Not available	Not available	N/A	N/A	
	Are there any As-Built Drawings / O&M Manuals	N/A	N/A	N/A	N/A	N/A	N/A	
	Are there any Upcoming Works or Planned Upgrades?	replacement of old units with R410 A	replacement of old units with R410 A	replacement of old units with R410 A	replacement of old units with R410 A	N/A	N/A	
	Are there any systems installed that are not used?	refrigerant units. None	refrigerant units. None	refrigerant units. None	refrigerant units. None	N/A	N/A	
	Is their Local Control (Y/N)	individual unit controls only	individual unit controls only	individual unit controls only	individual unit controls only	N/A	N/A	
	Is there a Timer or Central Controller (Y/N)	individual unit timers only	individual unit timers only	individual unit timers only	individual unit timers only	N/A	N/A	
	What are the Operating Hours	Normally from 8:00 am to 5:00 pm	Normally from 8:00 am to 5:00 pm	Normally from 8:00 am to 5:00 pm	Normally from 8:00 am to 5:00 pm	N/A	N/A	
	Is there a Out of Hours Button (Y/N)	No	No	No	No	N/A	N/A	
	Are there any Temperature Set points	No	No	No	No	N/A	N/A	
Ventilation Services	What is the Ventilation Type - Supply, Extract, W/C Extract, Kitchen Extract, Other	None	None	None	None	None	None	
	Are there any Complaints about the Services from Users? (Note Examples)	N/A	N/A	N/A	N/A	N/A	N/A	
	Are Plant Systems Manual or Automated? Are Systems left on when not needed?	N/A	N/A	N/A	N/A	N/A	N/A	

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Category	Questionnaire	Administration/Student Services &	Staff Housing	Classrooms, Library & Shops	Maintenance	Shower House	Security Post	i.e. Generator Buildings, e
=	What is the maintenance history? (i.e. what has been done and when)	Residence/Mess Hall N/A	N/A	N/A	N/A	N/A	N/A	
	Are there any As-Built Drawings / O&M Manuals	N/A	N/A	N/A	N/A	N/A	N/A	
	Are there any Upcoming Works or Planned Upgrades?	N/A	N/A	N/A	N/A	N/A	N/A	
	Are there any systems installed that are not used?	N/A	N/A	N/A	N/A	N/A	N/A	
	Is there Local Control (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A	
	Is there a Timer or Central Controller (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A	
	What are the Operating Hours	N/A	N/A	N/A	N/A	N/A	N/A	
	Is there an Out of Hours Button (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A	
	Are Filters present in the Ventilation system(Y/N)	N/A	N/A	N/A	N/A	N/A	N/A	
	What is the Filter Condition (Poor/Good)	N/A	N/A	N/A	N/A	N/A	N/A	
	Do the Filters get cleaned? If so how often?	N/A	N/A	N/A	N/A	N/A	N/A	
	How often do the Filters get replaced?	N/A	N/A	N/A	N/A	N/A	N/A	
Lighting	What is the Lighting Type - Incandescent, Fluorescent, LED, Other	Flourescent tubes T12 fixtures and compact flourescent light bulbs.	Flourescent tubes T12 fixtures and compact flourescent light bulbs.	Flourescent tubes T12 fixtures and compact flourescent light bulbs.	Flourescent tubes T12 fixtures and compact flourescent light bulbs.	Compact flourescent light bulbs.	Compact flourescent light bulbs.	
	Is lighting left on when not needed?	none except for unattended lights.	none except for unattended lights.	none except for unattended lights.	none except for unattended lights.	none except for unattended lights.	none	
	What is the maintenance history? (i.e. what has been done and when)	Replacement of most light fixtures were	Replacement of most light fixtures were	Replacement of most light fixtures were	Replacement of most light fixtures were			
		made done in 2010	made done in 2010	made done in 2010	made done in 2010			
	Are there any Upcoming Works or Planned Upgrades?	Replacement of light fixtures with energy	Replacement of light fixtures with energy efficient light fixtures, installation of daylight	Replacement of light fixtures with energy	Replacement of light fixtures with energy efficient light fixtures, installation of daylight			
	Assistance and As Duille Depuisers (OSM Manuels	controlled swtiches.	controlled swtiches.	controlled swtiches.	controlled swtiches.			
	Are there any As-Built Drawings / O&M Manuals	none	none	none	none	none	none	
	Is the Lighting all Operating & In Use (Y/N)	Yes	Yes	Yes	Yes	Yes	Yes	
	Is the light Manual Switching (Y/N)	Yes	Yes	Yes	Yes	Yes	Yes	
	Is there a Timer (Y/N)	none	none	none	none	none	none	
	Is there an Out of Hours Button (Y/N)	no	no	no	no	no	no	
	Is there any Daylight Sensing (Y/N)	none	none	none	none	none	none	
Power	In terms of equipment listed below what is being powered in each building:							
	Computers (Y/N)	Approximate Number:	Approximate Number:	Approximate Number:	Approximate Number:			
	Printers/Photocopiers (Y/N)	Approximate Number:	Approximate Number:	Approximate Number:	Approximate Number:			
	Servers (Y/N)	Approximate Number:	Approximate Number:	Approximate Number:	Approximate Number:			
	LCD/LED/Plasma Televisions (Y/N)	Approximate Number:	Approximate Number:	Approximate Number:	Approximate Number:			
	Hot Water Cylinders (Y/N)	Approximate	Approximate	Approximate	Approximate			
	Domestic Appliances such as Fridges, Microwaves, Ovens, Dish Washers, etc	Number: Approximate	Number: Approximate	Number: Approximate	Number: Approximate			
	(Y/N) Other (Please state):	Number: Approximate	Number: Approximate	Number: Approximate	Number: Approximate			
		Number:	Number:	Number:	Number:			
	Other (Please state):	Approximate Number:	Approximate Number:	Approximate Number:	Approximate Number:			
	Other (Please state):	Approximate Number:	Approximate Number:	Approximate Number:	Approximate Number:			
	Other (Please state):	Approximate Number:	Approximate Number:	Approximate Number:	Approximate Number:			
	Other (Please state):	Approximate Number:	Approximate Number:	Approximate Number:	Approximate Number:			
Plumbing	Any Hot Water Systems (Y/N)	none none	number:	none	none	none	<u> </u>	
	Any Hot Water Pumps (Y/N)	none	none	none	none	none		
	Any Solar Hot Water (Y/N)	none	none	none	none	none		

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ī	Discussion With:	
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		Building A	Building B	Building C	Building D	Building E	Building F	Outbuildings
Category	Questionnaire	Administration/Student Services &	Staff Housing	Classrooms, Library & Shops	Maintenance	Shower House	Security Post	i.e. Generator Buildings
	Any Cold Water Storage (Y/N)	Residence/Mess Hall none	none	none	none	none		
	Any Cold Water Pump (Y/N)	none	none	none	none	none		
	Any Hot Water Temperature Controls (Y/N)	none	none	none	none	none		
	Any Timer Central Controller (Y/N)	none	none	none	none	none		
	Any Out of Hours Button (Y/N)	none	none	none	none	none		
Electrical Infrastructure	What are the age of the electrical installations i.e. approximately when was the	30 plus years						
Licearca illiasa detare	Electrical works undertaken?							
	How is Island power generated?	Public power sytem						
	What is the reliability of electrical supply?	reliable						
	Is mains power available to all parts of the site 24/7?	Yes						
	What is the Electrical usage over normal 24 hour period?	One meter for a all the building Monthly usage for	the whole campus is 9140 kilo watt h	nours.				
	What are the Electrical Operating Costs?	Cost of electricity by the power company is \$0.78	cents per kilo watt hour.					
	Is there any Network & Distribution Cabling (i.e. Overhead & Underground Installations)?	Yes, underground 240 volts, three phase						
	Are there any Underground Cabling Issues? (e.g. cable trenching difficulties,	No test have been done to underground.						
	backfilling around cables and cable derating issues). Are there any Overhead Cabling Issues (e.g. Salt laden environment, cyclones,	not on this site						
	etc) What is the Age of electrical installations?	40 years and older						
	Who maintains the Electrical installations and how frequently?	Low voltage by FSMI staff and high voltage by the	e utility company.					
	What is the availability of alternative electrical sources (Diesel genset, wind	Diesel Generator						
	generators, solar panels, storage batteries)? Are there any other installations of solar and wind power?	none						
	Are there any restrictions of connecting alternative energy sources to the grid?	not sure						
	What is the Electrical Source Capacities (kVA) - Does the Campus demand exceed							
	supply Are there any back-up/temporary power generators on site (Y/N). If so what is the							
	capacity	none						
	Is there any Sourcing & bulk storage of fuel for back-up/temporary power generators?							
	Network Distribution Type (i.e. MEN, Floating Neutral, Earth Returns)?	not sure						
	Distribution Voltages (Multi & Single Phase Configurations)?	Single and three phase						
	What are the applicable Regulation Standards for the Islands electrical installations (i.e. AU, NZ UK, US, European or International)? How and whom are new Electrical Installations sourced and installed?	S US National Electric Code						
	Are there any current H&S issues or concerns?	none						
	Are there electrical contractors on the island and what is their capacity for work?	Low voltatge electrical contractors and high voltage	ge is available with the public utility co	ompany.				
	What is the availability of existing electrical infrastructure information (i.e. As-Built	No as-built drawing available on campus.						
Water Supply	Documentation)? Who is responsible for the public water supply?	YSPUC water and electrical utility company.						
	What is the source of drinking water?	Public water system						
	What is the site connection status (i.e. is mains water available 24/7 or do they run out of water, are there seasonal impacts, etc)?							
	Is it satisfactory for the current college operation?	Yes						
	Is there any additional water treatment on site?	None						
	How many connections?	One main						
	What is the incoming pipe size?	2"PVC pipe						
	What is the condition of the pipework i.e. does it leak (visible leaks)? Do they know what the pipes pressure rating is? Pipework outside of the buildings?		old galvanize pipes and may need to	be replaced with PVC.				
	What valves are present on-site? Can they isolate each building?	Yes						
	Are there water meters? If so how many?	Yes, one main meter.						
	Are there water usage records? Y/N What is the consumption per day or month?	Yes, 261,450 gallons per month.						
	Are there issues of non-continuous service (i.e. less than 24 hour availability) Is thi a problem for the college?	s None						
Ī	Is there adequate water flow/pressure/quality when the supply is operating	None						

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Category	Questionnaire	Administration/Student Services & Residence/Mess Hall	Staff Housing	Classrooms, Library & Shops	Maintenance	Shower House	Security Post	i.e. Generator Buildings,		
	Water quality - Are there issues, bacterial or chemical status.	None								
	Is the college concerned with the H&S of the available water?	No								
	Are lab tests available?	Yap EPA office can provide water quality test if ne	cessary.							
	What treatment does the municipal water receive?	Yes, chlorination	s but for fire fighting system training use.							
	Are there additional water sources on site (e.g. roof water, run-off, stream, river,	Yes but for fire fighting system training use.								
	Are there any meters on site? Estimate of Daily Water Use? Estimate of peak use?	Yes , one main meter for the whole campus facilities								
	Previous reports on water system, water demand, equipment upgrades, water	Plans include installation of water meters on staf for								
	analyses? Existing documentation for pipes, pumps, tanks, etc showing location?	None on campus.								
	Are there any Reservoirs/Tanks on site (i.e. above ground, in ground, concrete,	Yes,rain water catchment tanks are used for fire fig	ghting training.							
	steel, plastic covered, uncovered) Note: Mark on Plan where located and size Are the Reservoirs/Tanks interconnected or associated with particular college	no	·							
	areas? If so what size are these? How is water pressure maintained? (i.e. pump, header tank) Is it adequate?									
		header tanks system								
	Whole site pressurisation or individual buildings?	Whole site	and and for the table 1.1.1	ad for some very						
	Fire fighting - Is this provided from the college internal water supply or separate reservoir?	Rain water is collected from the roof of the building	gs and used for fire fighting training a	nd for campus use.						
	Are there sprinkler systems, fire hydrants or irrigation systems? (If so where - show on plan)	None								
Waste Water Systems	Does Municipal sewer system connect to College?	no								
	How is waste water collected? Is there any Piped reticulation	campus sewer collection system								
	Are there designated toilet blocks or are there toilets within each building.?	toilets for each building and one designated toilet a	andshower building.							
	Is there on site accommodation i.e. dormitories ?	Yes								
	Is wastewater piped to one disposal point or several for each site.?	Two separate septic tanks and open leaching field.								
	Is wastewater treated? If so how? (i.e. septic tank, treatment plant, etc) Or does it	Yes, septic tank and leach field. Leaching field has	been disconnected.							
	just get piped into the ground to soak away? If treated where is the treatment plant for each site, what condition is it in?	On site								
	Any Odour apparent on-site? Structure and general integrity of waster water	None								
	disposal systems? Where does wastewater end up treated or untreated. i.e. effluent disposed to	Leaching field under ground								
	ground, stream, river or a gulley? Is saltwater used for flushing?	none								
	Is freshwater flushing using the same source as the drinking water supply?	ves								
		yes								
	Are sewers adequate?									
	Is there a case of Regular Overflows?	occasional								
	Is the number of toilets sufficient?	yes								
Communications	Are there any radio towers? (If so how many?)	yes, one								
	Are there any satellite dishes? (If so how many?)	none								
	Do you have IT connections & where are these located and installed?	Yes, located at building C classroom and shop buil	ding.							
	Does the Campus use wireless? Is this specific to certain buildings only?	no								
	Is there a server room?	no server at FSM-FMI								
	Who is the Telco supplier?	FSM Telecommunication Corporation.								
	How is Telco distributed?	Under ground fiber optic and copper cables.								
	What is the Standard of telecommunications installations?	IT&E standards								
	Where are the points of supply located?	Along the mainpublic roads.								
Gas Services	Is the supply from town or gas bottle?	Gas bottles								
Car Parks and Access Roads	Carparks needed No. Carparks available No.									
	Is there sufficient access to the site from the main road (i.e. is there traffic	no								
	congestion at points of entry)? (Yes/No) Are these sealed i.e. asphalt or chip seal? If sealed when were they last sealed.?	Not on campus								

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	If not sealed are they metaled (Gravel road)?	Yes						
	If metaled do they have potholes?	yes						
	If metaled do they have corrugations i.e. transverse commonly on the inside of steep corners?	Yes corrosive						
	Do they have ruts i.e. longitudinal that the water runs down?	yes						
	How thick is the metal? Does it have any compacted basecourse/subgrade?	no						
	Are there stormwater culverts /bridges over streams or watercourses? Do they have sufficient capacity in a storm or does water flow over them?	no						
		yes						
	Where does stormwater go from the roads?	On the ground						
Storm Water	Are there any nearby streams that flood and do the banks overtop (Yes/No) - If yes then where (mark on site plan)	no						
	Do the car parks flood (Yes/No) - If yes then where (mark on site plan)	no						
	Does the site flood (Yes/No) - If yes then where (mark on site plan)	no						
	is there any stormwater discharged straight into the sea (Yes/No/NA) - If yes then what is the condition (i.e. affects of corrosion) and is this affected by tide?	no						
	Are there any roof gutters? (Yes/No)	yes						
	Is the roof water collected for drinking? (Yes/No)	No						
	When roof gutters overtop or if there aren't gutters present, where does the water flow once its on the ground? Is there a clear flowpath or is it sheet flow. ?	On the ground						
	If gutters and downpipes are present what happens when they reach capacity. i.e.							
	does stormwater flow overtop gutters or do the downpipes go into an open pipe and discharge across the ground when there isn't enough capacity in the pipe?							
	Does stormwater cause scour at any locations? Is stormwater concentrated at any one / or several locations. Where are these? (mark on site plan)	Goes down locations beyond campus grounds.						
	Does stormwater cause flooding i.e. around doorways and walkways ? if so which ones? (mark on site plan)	yes, at buildings B &C						
		n/a						
	Does stormwater flow under buildings? i.e. if buildings are on piles (mark on site plan)	no						
	Where does stormwater ultimately end up.? i.e. stream, gully, sea. Are there any signs of scour (abrasive damage to ground) at these locations. Photos of outlet(s) is there any discolouration present?	none						
	What is the Building proximity to banks or slopes? Are there any buildings considered to be too close?	5 feet to 300feet and none,						

Appendix D

Energy Use Analysis



Building System Descriptions Plumbing System Referred connection to town water main, cold water only Referred connection to town water main, cold water only Referred connection to town water main, cold water only Referred connection to town water main, cold water only Referred connection to town water main, cold water only Referred connection to town main. Single and Three Phase Recommendations Current Operational Status Current Operational Status Manual Operation AC Units Split-units Internal Manual Operation Average Monthly filter cleaning, quarterly condenser unit cleaning quarterly condenser unit cleaning quarterly condenser unit cleaning Foor General AC Units Some outdoor units have debris in their filters. General AC Units Some outdoor units are heavily rusting. * Poor Poor Consider replacing oid/damaged units with more efficient ones. General AC Units Some outdoor units have been vandalized * Poor The units require cleaning or replacement. General AC Units Some outdoor units have been vandalized * Poor The units require cleaning or replacement. General AC Units Dirty outdoor units External Poor Replace Insulation there Wipe down to avoid excess dirt getting into filters. Average Replace Insulation where missing Uniting Internal Internal Good Turn off lights when not required Closed curtains/blinds during daylight hours. Internal Average Open curtains to increase entural lighting.	швеса	Project: College of Micronesia FMI Campus	Date of Inspection: April 2013 Report by: JGB									
Plant Item Description Location Operation Condition Current maintenance Recommendations Current Operational Status Current Operational Condition Current maintenance Recommendations Current Operational Status	St. Of MICRONE		HVAC System AC Split-Units to provide cooling. No extract or supply system. Natural ventilation by open windows/spaces.									
Plant Item Description Location Operation Condition Current maintenance Recommendations Current Operational Status Mechanical Systems Monthly filter cleaning, quarterly condenser unit cleaning These units require immediate filter cleaning. General AC Units Some outdoor units have debris in their filters. Faternal Poor Consider replacing old/damaged units with more efficient ones. General AC Units Some outdoor units are heavily rusting. "Poor Consider replacing old/damaged units with more efficient ones. With more efficient ones. The units require leaning or replacement. Wipe down to avoid excess dirt getting into filters. General AC Units Dirty outdoor units External Poor Wipe down to avoid excess dirt getting into filters. Average Replace insulation where missing Lighting Internal lighting during the day. Internal Closed curtains/blinds during daylight Internal Closed curtains/blinds during daylight Internal Average Open curtains to increase natural		Building System Descriptions	Plumbing System		Metered connection to town water main, cold water only							
Mechanical Systems	100 - 1000		Electrical System		Underground metered connection to town main. Single and Three Phase							
AC Units Split-units Internal Manual Operation Poor Monthly filter cleaning, quarterly condenser unit cleaning quarterly condenser unit cleaning. These units require immediate filter cleaning. Quarterly condenser unit cleaning. Quarterly condenser unit cleaning. Quarterly condenser unit cleaning. Quarterly condenser unit cleaning. These units require immediate filter cleaning. Quarterly condenser unit cleaning. Quarterly condenser unit cleaning. Quarterly condenser unit cleaning. These units require immediate filter cleaning. Quarterly condenser unit cleaning. Quarterly	Plant Item	Description	Location	Operation	Condition	Current maintenance	Recommendations					
AC Units Split-units Internal Manual Operation Poor quarterly condenser unit cleaning (authority condenser unit cleaning) AC Units Split-units Internal Manual Operation Average Monthly filter cleaning, quarterly condenser unit cleaning (authority condenser unit cleaning) General AC Units Some outdoor units have debris in their filters. External Poor These units require immediate filter cleaning. General AC Units Some outdoor units are heavily rusting. "Poor Consider replacing old/damaged units with more efficient ones. The units require cleaning or replacement. General AC Units Dirty outdoor units have been vandalized "Poor The units require cleaning or replacement. General AC Units Dirty outdoor units External Poor Wipe down to avoid excess dirt getting into filters. General Room Infiltration Average Replace insulation where missing Lighting Internal lighting during the day. Internal Good Turn off lights when not required Open curtains to increase natural				Mechanical S	Systems							
AC Units Split-units Internal Manual Operation Average quarterly condenser unit cleaning. General AC Units Some outdoor units have debris in their filters. General AC Units Some outdoor units are heavily rusting. "Poor Consider replacing old/damaged units with more efficient ones. General AC Units Some outdoor units have been vandalized "Poor The units require cleaning or replacement. General AC Units Dirty outdoor units External Poor Wipe down to avoid excess dirt getting into filters. General Room Infiltration Average Replace insulation where missing Lighting Internal lighting during the day. Internal Closed curtains/blinds during daylight Closed curtains/blinds during day	AC Units	Split-units	Internal	Manual Operation	Poor	quarterly condenser unit						
General AC Units General AC Units Some outdoor units are heavily rusting. "Poor Consider replacing old/damaged units with more efficient ones. The units require cleaning or replacement. General AC Units Dirty outdoor units External Poor The units require cleaning or replacement. Wipe down to avoid excess dirt getting into filters. General Room Infiltration Average Properly seal all holes into the building and close doors to AC spaces General Roof insulation. Average Closed curtains/blinds during the day. Internal Closed curtains/blinds during daylight Internal Average Open curtains to increase natural	AC Units	Split-units	Internal	Manual Operation	Average	quarterly condenser unit	Set all units 24degC.					
General AC Units Some outdoor units are heavily rusting. General AC Units Some outdoor units have been vandalized Dirty outdoor units External Poor The units require cleaning or replacement. Wipe down to avoid excess dirt getting into filters. Average Properly seal all holes into the building and close doors to AC spaces General Roof insulation. Average Replace insulation where missing Lighting Internal lighting during the day. Internal Closed curtains/blinds during daylight Internal Average Open curtains to increase natural	General AC Units		External		Poor							
General AC Units Dirty outdoor units External Poor Poor Replacement. Wipe down to avoid excess dirt getting into filters. Properly seal all holes into the building and close doors to AC spaces General Roof insulation. Average Replace insulation where missing Lighting Internal lighting during the day. Internal Average Closed curtains/blinds during daylight Internal Average Open curtains to increase natural	General AC Units	Some outdoor units are heavily rusting.	п		Poor							
General Room Infiltration General Roof insulation. Average Replace insulation where missing Lighting Internal lighting during the day. Internal Good Turn off lights when not required General Closed curtains/blinds during daylight Internal Average Open curtains to increase natural	General AC Units	Some outdoor units have been vandalized	н		Poor							
Room Intilitration Average building and close doors to AC spaces	General AC Units	Dirty outdoor units	External		Poor		1					
Lighting Internal lighting during the day. Internal Good Turn off lights when not required General Closed curtains/blinds during daylight Internal Average Open curtains to increase natural	General	Room Infiltration			Average							
General Closed curtains/blinds during daylight Internal Average Open curtains to increase natural	General	Roof insulation.			Average		Replace insulation where missing					
	Lighting	Internal lighting during the day.	Internal		Good		Turn off lights when not required					
	General		Internal		Average							

Regularly service equipment and turn off after hours

Recommendation Key						
	Plant operating efficiently					
	Improvements possible with minimal capital expenditure					
	Capital investment recommended to improve system within 2-5years					
	Plant requires significant maintenance or replacement					
•	Potential Health and Safety Hazard					
Potential for Future Improvement	An opportunity to improve the standard of servicing in the site - for consideration in future stages.					

Workshop equipment

Internal

Electrical



Lighting	Fluorescent tubes & compact fluorescent bulbs	All areas	Manual operation	Average	To replace magnetic ballast fluorescent fixtures with electronic	Turn lights off when not in use.		
Outbuildings								
Lighting	Fluorescent tubes & compact fluorescent bulbs	All areas		Good		Turn off lights when not in use. Consider using facility during daylight hours only		

