

Variables within the construction industry, particularly the current economic downturn in the industry in the southern hemisphere, and therefore the tendering or negotiated costings related to the suggested packages, may vary.

### 3.2 Ongoing maintenance

It is understood that a maintenance programme by period contract has been in operation for managing, monitoring and supply of equipment for maintenance programmes. Financial and professional assistance is provided by New Zealand of some WS\$150 000 every two years, to supplement the national budgeted amount set by the Samoan Government. It is however stressed that the Department of Health should maintain an ongoing commitment for the maintenance and improvement of buildings and plants.

Close cooperation should also be maintained between the Department of Health and the district communities, as the committees in the majority of cases are solely responsible for renovation and reconstruction, thus reducing the maintenance burden from the Department of Health. The major problem with this is that communities have no guidelines about specific requirements for numbers of beds. Consequently, there are numerous new buildings erected which are never used or at the best extremely underutilized.

### 3.4 Construction and costs

The opinions of probable cost generally provide for all works to be carried out within each health facility, as one contract, at one time; this is considered appropriate phasing related to reducing inconvenience to the operation of the facility. It is believed that this is a logical approach and has economic and practical advantages.

Costs of contractors "preliminaries" (insurance, mobilisation, equipment supply, establishment costs, profits and overheads) are included in the opinions of costs given. The rates used in the calculations are inclusive of this item.

The costs of similar buildings in different locations will not necessarily return similar tenders or costs. This reflects source of supply, labour and preliminary variables.

It is noted that costs are local construction costs which could be anticipated by local tendering procedures and do not include for Managing Agents costs.

Use and reference has been made to the initial "Report on Damages by Cyclone Val to Facilities and Equipment" prepared by the Department of Health and dated 1 January 1992 (refer to Annex 1).

### 3.5 Cost breakdown

Even though most of the work covered by this report is of a rectification nature, the following breakdown of current construction costs would be applicable:

ELEMENT		% OF COST
1.	Preliminaries	12
2.	Substructure	3.5
3.	Superstructure	32
4.	Finishes	8.5
5.	Fittings	5
6.	Services	35
7.	External Services	1
8.	Unallocated	3

Labour and material costs can therefore be estimated out for record purposes using the following table:

COMPONENT	% OF TOTAL COST
Plant and Equipment	4
Labour	36
Materials	60

### 3.6 Equipment

This report includes lists of equipment reportedly damaged as a direct result of Cyclone Val; most were water damaged, but some damage was due to electrical faults or fluctuation of voltage in the main supply before power was disrupted completely.

At the time of this report the detailed lists were not available. However, the basic information is included in Annex 2 to this report.

The list includes a lump sum budget cost for replacement.

### 3.7 Phasing

Where development or refurbishment work requires staging of the work due to inconvenience or impracticality, an allowance has been made to facilitate a longer construction time or temporary relocation of facilities and services; inconvenience to the facility and the contractors was considered.

### 3.8 Consultant services

Not included in the opinions of costs are professional consultancy costs to carry out finalization of the brief, to prepare construction details and/or specifications of work to be performed and to set out required standards of construction, quality control criteria and programme requirements. Inclusive in these services would be preparation of tender and contract documentation where required or thought desirable, and provision for contract administration of the work, including monitoring during any defects liability periods.

In some cases Department of Health Maintenance personnel and/or PWD architects/engineers could be responsible for all or partial services.

### 3.9 Implementation

#### 3.9.1 Approval

It is essential for proper and timely implementation of this project for rehabilitation that the Department of Health approve, at an early date, the recommendations included in this report. Should there be need to amend this information, it should be completed and formalised quickly to ensure that an urgent programme is maintained.

It is also stressed that any monies and/or equipment and materials supplied for a particular facility, be applied to that facility.

#### 3.9.2 Priorities

The Department of Health should place priorities on the rehabilitation programme based on utilization of the facility and extent of damage.

Priority one should be given to facilities with obviously difficult working conditions, e.g. Musumusu, where there is still no roof on the part of the facility remaining.

It is noted however that some facilities have greater community support than others; consequently repair work, albeit temporary, has been achieved already.

#### 3.9.3 Contractual arrangements

Contractual packaging has been suggested in Section 4 of this report and is based on the assumption that investment funding or agency funding may be sought from appropriate organizations.

Should this be the case, the organization will need to assess the specific detailed requirements of the package, possibly by utilisation of a managing agent.

Contracts would be entered into by incorporating standardized long term materials and maximum utilization of local labour.

Due of course to the demand from the domestic sector, local labour is at saturation point and will probably remain so for the first six months of 1992.

#### 3.9.4 Master development plan

As with any health facility a Master Development Control Plan (MDCP) is an essential tool for planning a controlled facility over a long period.

An MDCP could be produced for the major facilities in the country. The Department of Health could set the parameters for long term objectives and obtain the technical assistance from PWD or other sources.

#### 3.9.5 Inter-departmental coordination

It is suggested that as much use as possible be made of the available technical and professional expertise within the PWD. This includes new building work as well as renovation work.

The use of this expertise will ensure that proper informed decisions will be made pertaining to selection of materials, methods of construction and contractual arrangements.

## 4. CONCLUSIONS AND RECOMMENDATIONS

### 4.1 Conclusions

#### 4.1.1 General

This report takes the approach of consolidation and rationalization of facilities rather than simply reinstating buildings existing prior to the Cyclone.

There is country-wide evidence that all health facilities are grossly underutilized, currently and for the foreseeable future.

The recommendations made are specific regarding the physical facilities and are based on observation, historical information and discussion during site visits. They are, however, recommendations formulated over a relatively short time in country but form the basis for practical consolidation of the services within Samoa.

The consolidation has a dual affect of requiring less personnel to staff the underutilized buildings and less time and money to maintain them.

#### 4.1.2 Costing principles and definitions

The principles related to costing and definition of terms used are attached as Annex 3.

## 4.2 Recommendations

### 4.2.1 General recommendations

The following clause sets out the recommendations of the investigation in brief with appropriate costs. The facilities are set out in order from Apia on Upolu (Figure 1), and from Tuasivi on Savaii (Figure 2), and are listed clockwise around the islands.

The general recommendations incorporate the principles of consolidation and rationalisation, more rainwater collection, fewer louvres and more timber windows, simplification of all hydraulic services and generally better use of suitable materials.

### 4.2.2 Summary of opinion of probable cost

#### (1) National Referral Hospital - Apia

Sub-total US\$1 046 200

- renovate
- reconstruct walkways
- demolish
  - Ward 5
  - Filariasis building
  - Dental School
  - 80% of TB and Leprosy ward
  - Old Boiler House (paint store)
  - Mechanics workshop
  - Maintenance workshop
- construct
  - Dental school
  - Maintenance workshop
  - Mechanics workshop
  - Paint store (part of maintenance workshop)
- relocate
  - Ward 5 acupuncture
  - Filariasis

(2)	LUFILUFI H.C.	-	US\$45 000
	- demolish ward		
	- 2 beds in OPD		
	- convert doctor house to nurse accommodation.		
	- renovate remainder		
(3)	FALEAPUNA SC	-	26 600
	- almost all work done by community		
	- renovate		
(4)	FALEFA SC	-	11 300
	- renovate		
(5)	SAUANO SC	-	58 000
	- new nurse accommodation		
	- renovate remainder (consideration to re-siting)		
(6)	MUSUMUSU SC	-	89 200
	- demolish nurse accommodation		
	- new OPD including nurse accommodation (consideration to re-siting)		
(7)	AMAILE SC	-	39 400
	- renovate		
(8)	LALOMANU D.H.	-	20 000
	- demolish ward block with exception of 12 beds		
	- renovate remainder		
(9)	LEPA SC	-	21 600
	- incorporate nurse accommodation in OPD		
	- renovate		
(10)	LOTOFAGA SC	-	18 700
	- demolish nurse accommodation		
	- incorporate nurse accommodation in OPD		
	- renovate		
(11)	SALESATELE SC	-	25 400
	- renovate		

(12)	POUTASI HC	-	66 000
	- demolish OPD		
	- convert one ward to OPD		
	- demolish dental clinic and doctor house		
	- renovate remainder		
(13)	SIUMU SC	-	9 100
	- renovate		
(14)	FUSI D.H.	-	86 900
	- renovate		
(15)	SAANAPU TAI SC	-	27 400
	- convert part of ward for nurse accommodation		
	- demolish remainder		
	- renovate		
(16)	SAANAPU UTA SC	-	8 800
	- almost all work done by community		
	- renovate		
(17)	LEFAGA HC	-	63 700
	- demolish OPD		
	- convert part of ward to OPD		
	- demolish doctor house		
(18)	FALELATAI HC	-	59 900
	- demolish doctor house		
	- renovate		
(19)	APOLIMA TAI SC	-	16 400
	- renovate		
	- nurse accommodation in OPD		
(20)	MANONO TAI SC	-	18 200
	- renovate		
	- part OPD for ward accommodation		
(21)	MULIFANUA SC	-	17 300
	- demolish OPD and nurse accommodation		
	- convert ward to accommodate OPD and nurse accommodation		
	- renovate		
(22)	SINA SC	-	500
	- demolish		
(23)	LEULUMOEGA D.H.	-	122 300
	- renovate		
	- convert ward building to 10-bed ward and training facility		

(24)	AFEGA HC	-	34 100
	- demolish wards		
	- convert part of OPD to accommodate 4 bed ward		
	- renovate remainder		
		Sub-total: Upolu-	US\$885 800
(25)	TUASIVI - Referral Base Hospital	-	380 800
	- demolish paramedic building		
	- convert ward to incorporate dental and laboratory		
	- convert OPD to incorporate pharmacy		
	- rebuild houses		
	- renovate		
(26)	TAFUA TAI SC	-	40 300
	- renovate		
	- demolish ward		
(27)	PALAU LI HC	-	19 000
	- renovate		
(28)	SATUPAITEA HC	-	62 500
	- demolish three quarters of OPD/Ward and convert remainder into OPD 5 bed ward		
	- renovate		
(29)	SILI SC	-	34 800
	- renovate		
	(consideration to re-siting)		
(30)	TAGA SC	-	41 300
	- renovate remainder		
	- convert OPD to house 2 beds		
(31)	FOALALO HC	-	62 200
	- renovate		
	- demolish doctor house		
(32)	FALEALUPO SC	-	55 100
	- demolish nurse accommodation		
	- convert part of OPD to nurse accommodation		
	- renovate		
(33)	SATAUA DH	-	233 700
	- demolish ward		
	- convert OPD to incorporate a 10 bed ward		
	- renovate remainder		
	(consideration to re-siting)		



(34) AOPO SC		22 800
- demolish nurse accommodation		
- convert OPD to incorporate 2 bed ward and nurse accommodation		
- renovate		
(35) SAFOTU HC	-	57 100
- demolish nurse accommodation		
- demolish one ward		
- convert one ward to 5 bed ward and nurse accommodation		
- demolish doctor house		
- renovate		
(36) FAGAMALO HC	-	32 100
- demolish one ward		
- convert part ward for nurse accommodation		
- renovate		
(37) SAMALAU LU SC	-	27 200
- reconstruct nurse accommodation		
- renovate		
(38) PATAMEA SC	-	40 600
- renovate		

Sub-total: Savaii - US\$1 109 500

(39) DOH HEADQUARTERS		
- renovate		348 600

NOTE: The stability and condition of this old building will not be fully know until after a thorough investigation. It may be that some or total demolition is required. If so, a rebuilding programme will be necessary after formulation of a design brief.

(40) NURSING ADMINISTRATION		
- renovate		186 700
- rebuild supper house		
- rebuild male nurse quarters		

TOTAL FOR RECOMMENDED REFURBISHMENT WORK - US\$3 576 800

Full details of costings are incorporated in Annex 3, Appendices 1 to 40 of to this report.

It is recommended that the above work be carried out as a matter of urgency.

Those facilities noted "consideration to re-siting" should be re-sited in the long term due to proximity to the coast and either wave action or exposed location, or due to proposed relocation. Action should be implemented by Department of Health if thought appropriate.

The above figures are less than those initially prepared by DOH, but the principles remain the same. The true damage caused by T.C. "Val" was evident when the DOH estimate was prepared. Between that time and the period of this assignment there have been dramatic improvements to some facilities. While evidence of the cyclone's damage is still very evident, some district communities have injected large amounts of time and expertise into repair of their health facilities. This factor alone has reduced the total rehabilitation amount.

This report however recognizes that the work done by the communities will not necessarily comply with the appropriate building and cyclone codes. Therefore allowances have been made for checking the repairs, where necessary.

The other potential area of cost variance between DOH figures and those in this report is in the area of approach taken by this report. Only buildings being generally fully utilized have been recommended for replacement and rehabilitation; other buildings should be either demolished or utilized by non-hospital organizations.

#### 4.2.3 Suggested Packages For Construction

Breakup into geographical areas would have practical and economic advantages. Logically all the facilities could be directed/managed from Apia as far as construction is concerned. But from a practical point of view it would be better to prepare a package or series of packages related to each island.

The following is suggested:

PACKAGE 1	National Referral Hospital Apia	US\$1 046 200
PACKAGE 2	Eastern end of Upolu from Lufilufi to Salesatele (incl.)	US\$ 421 200
PACKAGE 3	Western end of Upolu from Poutasi to Afega	US\$464 600
PACKAGE 4	Southern side of Savaii from Tuasini to Foalalo (incl.)	US\$640 900
PACKAGE 5	Northern side of Savaii from Falealupo to Patamea (incl.)	US\$468 600
PACKAGE 6	DOH headquarters and nursing administration	US\$435 300
PACKAGE 7	Supply of equipment & supplies	US\$660 000

Packages 1, 2, 3, 6 & 7 could have a working base at Apia; Package 4, at Salelologa, Package 5 at Sataua. It may be that a number of these packages could be combined with the one supplier, dependent upon the size and time allocated to each task.

The important factor is that the health system in Samoa is at a serious disadvantage with all facilities sustaining damage in varying degrees. Some are operating under many difficulties, so to maintain at least the current service immediate action is required to implement reconstruction as well as the supply and distribution of medical supplies and equipment.

#### 4.2.4 Equipment Replacement

Materials, equipment and clinical supplies have been lost during the cyclone. Estimates of costs have been prepared by the Department of Health. Actual lists of this equipment have been discussed but no assessments made, due to minimal records.

It is considered that a health equipment expert be appointed to assess the reported equipment lost and suggest future replacement requirements.

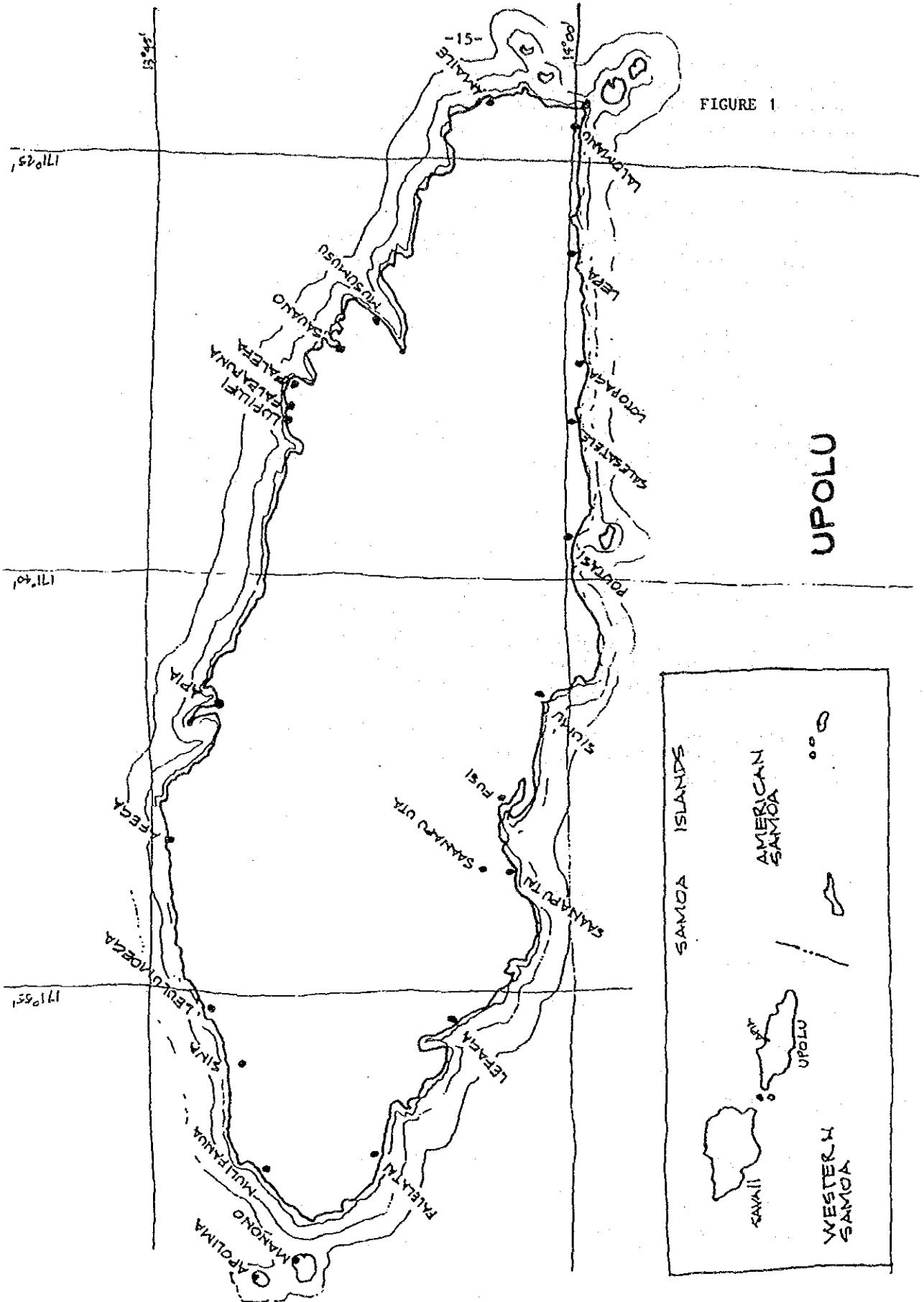
Terms of Reference for such an assignment would include consolidation of supply and manufacture. Coordination with the current programmed maintenance processes would also be essential to ensure that equipment purchased was compatible with existing repair/monitoring facilities operated under the new National Maintenance Supervisor.

## 5. ACKNOWLEDGEMENTS

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The special assistance and guidance offered by Department of Health and Public Works Department staff who accompanied him on all the field inspections are recognized as extremely notable.

FIGURE 1



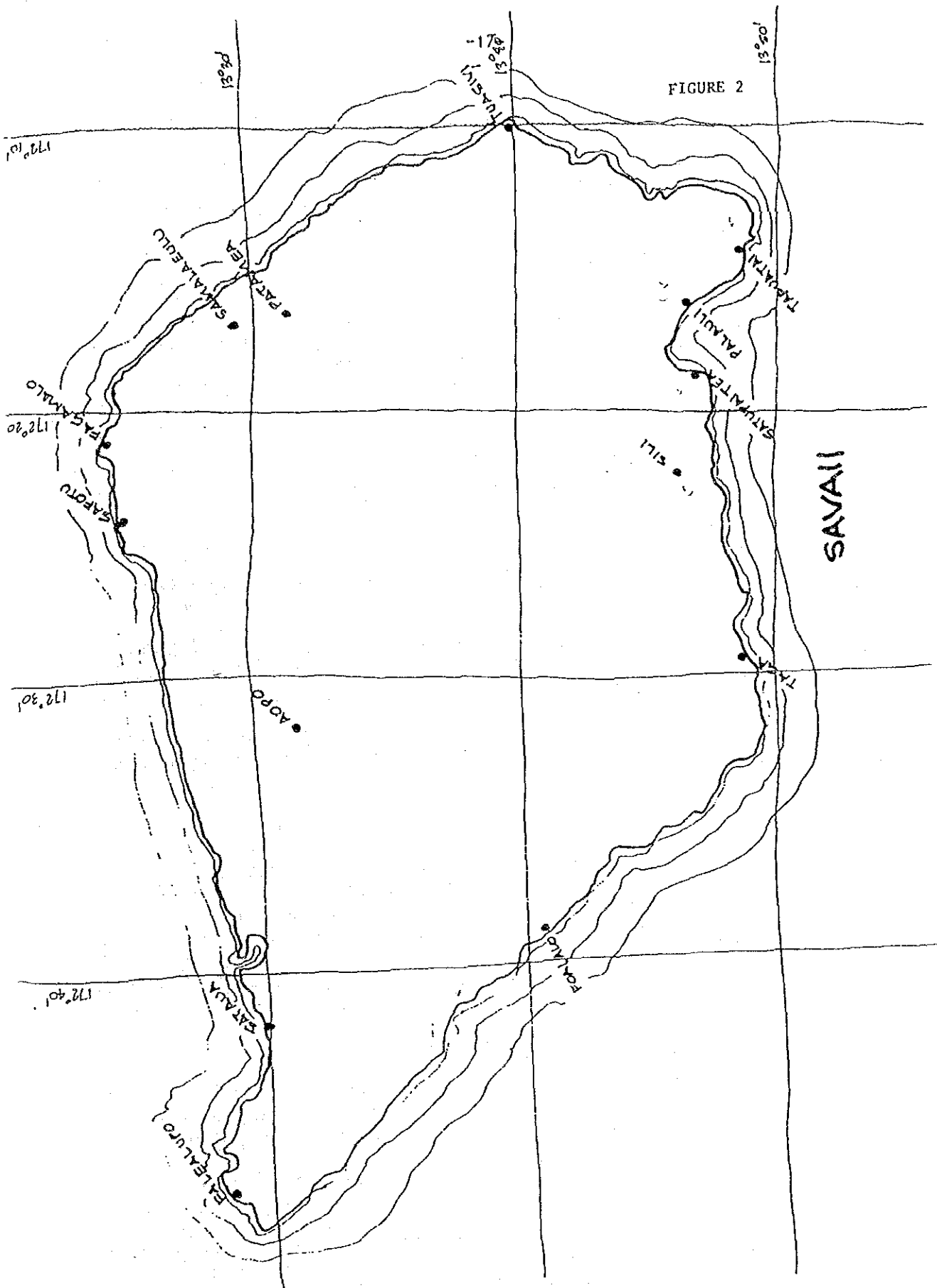


FIGURE 2

Chairman  
National Disaster Council (NDC)

REPORT ON DAMAGES BY CYCLONE VAL  
TO FACILITIES AND EQUIPMENT

The damages and devastation to health facilities and services including medical material resources such as equipment, machinery and supplies is summarized as follows:

Health Department Headquarters:

1.1 Main office: These includes the Main Office, Public Health Division, Public Health Nursing, Transport Section Vehicle Pool, Stores and Purchasing Section.

There is an extensive damage to roofing irons and ceiling timbers. Leaking roof causes damages to files, stationeries and computer. Computers sustain 10% damage. The building itself receives 80% damages.

Temporary repairs using tarpaulins were done to provide temporary shelter but is still leaking badly. Electrical wiring to the whole building seriously damaged by the rain. Fence damaged by falling tree. Security house blown away by cyclone.

Estimated cost for rehabilitation for all damages and repairs                      \$360 000.

1.2 Health planning and information: The building includes the Psychiatric Doctors Office, Health Planning and Information Unit, EPI Store Room and Housekeeping staff and equipment. The walkways from the main office to these buildings were totally destroyed. Electrical and telephone lines were broken and need repair. The roofing sustains 30% damage, leaking roof causes faults to computer currently under repaired, office records were all wet and trying to salvage what can be saved. Temporary repairs to roofing but still leaking. Electrical repairs are required.

Estimated cost for rehabilitation for all damages and repairs                      \$ 57 000

1.3 Library: 20% damage sustained to the roof and ceiling. Fifty literatures and journals were discarded due to damaged condition. Floor tiles destroyed by the rain. Electrical wiring requires repairs on audiovisual equipment damaged by the rain.

Estimated cost for rehabilitation for all damages and repairs                      \$ 40 000

1.4 Immigration and STD clinic There is 90% damage to the roof and ceiling about 10 meters of the walkway is destroyed by other falling debris. Window caps are also blown away. Temporary repair to roofing for shelter still leaking, photocopies damaged by leaking water. Electrical wiring requires repair. Estimated cost of rehabilitation for all damages and repairs.

## Annex 1

Estimated cost of rehabilitation for all damages and repairs \$ 70 000

1.5 Filariasis building: Roof partly damaged with roofing irons blown away. Window capping was destroyed. Electrical wiring requires urgent repairs. Vector control equipment and chemicals destroyed.

Estimated cost for rehabilitation for all damages and repairs \$ 40 000

1.6 Mechanics workshop: All cement roofing cracked and leaked. Cracked in many places. One wall of roofing iron blown away by the cyclone. Temporarily secured. Electrical wiring damaged. Spare parts damaged by leaking roof.

Estimated cost of rehabilitation for all damages and repairs \$ 80 000

1.7 AHI training room/splint building: This building sustains 40% damage to the roof and ceiling. Floor tiles damaged. Training offices has 20% damage to partitions and office materials. Training equipment damaged by the rain. Splint equipment and chemicals destroyed by the rain. Electrical wiring requires replacement.

Estimated cost for rehabilitation for all damages and repairs \$ 70 000

## 2 Nursing Administration

2.1 Nurses home: Two-storey. Male residents completely destroyed. Female quarters vents completely damaged. Leaking roof. Fale supper destroyed. Shower house sustains 50% damage. Nurses' kitchen and dining hall roof and ceiling sustain 20-30% damage. Electrical wiring needs repairs.

Estimated cost for rehabilitation for all damages and repairs \$270 000

2.2 School of Nursing: 20% damage to roofing irons, 30% damage to ceiling and floor tiles. Floor tiles destroyed by the rain from leaking roof. Toilet facilities destroyed by cyclone. Electrical wiring needs repairs.

Estimated cost of rehabilitation for all damages and repairs \$ 60 000

## 3 National Hospital

3.1 Water treatment plant: One 10 000-gallon water tank roofing damaged by flown debris of the Mormon Church. One storage tank cracked when tree branches fell on it. House for treatment plant damaged at roof and wall. Main door blown. Water pump damaged.

Estimated cost of rehabilitation for all damages and repairs \$ 60 000

3.2 SPDC 2-storey building sustains 20% damage to roofing. Partition destroyed by leaking roof and rain water. Electrical wiring requires repair. Cardiac analyzer and aircondition damaged in diabetic/rheumatic clinic. Beds and mattresses damaged.

Estimated cost for repair and rehabilitation \$150 000

3.3 Maternity ward: 20% damage to roof and ceiling. Cupboards and shelves destroyed by the rain. Partitions in toilets destroyed. Two theatre lights and aircondition slit unit destroyed. Electrical system needs repairs. Floor tiles damaged. Louvers and

windows broken. Bassinets damaged. Beds and mattresses damaged by the rain and blown across ward rooms.

Estimated cost for repair and rehabilitation \$ 80 000

3.4 Paediatric A & B: Vent in roof blown. Ceiling tiles, floor tiles, louvre glasses sustain 60% damage. Aircondition, fridge and oven damaged. Electrical wiring requires repair. Beds and mattresses destroyed. Patient records and medical equipment damaged by rain and strong winds. Oxygen system destroyed.

Estimated cost for rehabilitation \$175 000

3.5 Medical students' residence (yellow house) sustains 70-80% damage to the whole building including partitions inside. Furniture destroyed. Fridge and oven damaged. Electrical system requires complete replacement.

Estimated cost for repair and rehabilitation \$120 000

3.6 Operating theatre, CSSD, Psychotherapy complex: Walkway has its roof of iron blown away. Roofing for suction blown away. Suction pump damaged. Aircondition damaged. Sterilizers, surgical equipment and medical supplies damaged. Acoustic ceiling tiles and floor tiles damaged by the rain.

Estimated cost for repair and rehabilitation \$150 000

3.7 Surgical ward 10: Duty point has its roof blown and destroyed. About 15 metres of ward 10's walkway shelter destroyed. Ward 10 medical duty point has its window caps destroyed. Walkway lights destroyed. Electrical wiring needs replacement.

Estimated cost for repair and rehabilitation \$ 87 000

3.8 X-ray: Roofing for compressor blown away. Aircondition damaged. Ceiling tiles damaged by leaking roof. Floor tiles damaged.

Estimated cost for repair and rehabilitation \$ 80 000

3.9 Dental School of Nursing: About 80% damage to roof and ceiling. Equipment tested for damage. Teaching materials destroyed. Floor tiles damaged by leaking rain through the roof. Equipment, medical supplies and stationeries damaged.

Estimated cost for repair and rehabilitation \$ 70 000

3.10 Dental clinic sustains 30% damage to the roof and ceiling. Fixed dental chairs damaged by rain water. Medical supply and equipment destroyed by the leaking roof.

Estimated cost for repair and rehabilitation \$160 000

3.11 Laundry: 30% damage to roof. Roller press machine damaged. Compressor destroyed. Electrical wiring damaged.

Estimated cost for repair and rehabilitation \$158 000

3.12 Kitchen: Side roofing damaged. Shelter for the walk-in freezer compressor destroyed. One walk-in freezer out of order and one oven damaged. Food and stock and trollies damaged by the rain. Cooler and ice-making machine damaged.



Annex 1

	Estimated cost for repair and rehabilitation	\$120 000
3.13	<u>Ward 5:</u> 40-50% damage to roof ceiling and floor tiles. Beds and mattresses destroyed. Windows damaged.	
	Estimated cost for repair and rehabilitation	\$ 80 000
3.14	<u>Family Welfare Centre:</u> Roofing iron blown. Leaking roof damaged the ceiling and floor tiles. Clinical instruments damaged by the rain. Audiovisual equipment and educational materials and photocopier damaged by the rain.	
	Estimated cost for repair and rehabilitation	\$ 25 000
3.15	<u>Nutrition Centre:</u> Vegetable garden destroyed. Tool shed completely destroyed. Some roofing iron blown away. The Centre burglarized during cyclone period damaging cocoa wires and louver blades. Educational materials damaged by the rain.	
	Estimated cost for repair and rehabilitation	\$ 25 000
3.16	<u>Acute 7 &amp; 8:</u> Sliding doors damaged. Split unit aircondition damaged. Screen damaged by strong winds. Floor tiles damaged by the rain. Acoustic ceiling tiles destroyed by the leaking roof. Partition strong glass broken. Cupboards damaged by the rain. Records, medical supplies and stationeries destroyed.	
	Estimated cost for repair and rehabilitation	\$ 50 000
3.17	<u>Old boiler house</u> sustains roof damage. (Not used).	
	Estimated cost for repair and rehabilitation	\$ 16 000
3.18	<u>New boiler house:</u> Roller door destroyed. Roofing irons blown. Boiler no. 2 damaged by the rain.	
	Estimated cost for repair and rehabilitation	\$120 000
3.19	<u>Ward 9:</u> Office and ward sustain 80% damage. Roof, ceiling, partitions and walkways destroyed. Need to replace the whole electrical wiring.	
	Estimated cost for repair and rehabilitation	\$ 60 000
3.20	<u>TB and Leprosy ward:</u> 80% damage to roof, ceiling, windows and floor. Beds, mattresses and equipment damaged.	
	Estimated cost for repair and rehabilitation	\$270 000
3.21	<u>Doctors' common room</u> has roof irons blown. Sliding doors damaged. Furniture destroyed. Ceiling tiles damaged.	
	Estimated cost for repair and rehabilitation	\$ 12 000
3.22	<u>Laboratory:</u> Leaking roof damaged ceiling tiles extensively. Floor tiles damaged. Microscopes damaged. Testing chemicals destroyed. Aircondition damaged.	
	Estimated cost for repair and rehabilitation	\$160 000

3.23 Pharmacy: Aircondition and coolers damaged from leaking roof. Pharmacy storage supplies damaged by the rain.

Estimated cost for repair and rehabilitation \$ 52 000

3.24 Electric generator room: Leaking roof destroyed the generator. Generator sustains mechanical and electrical damage and really needs replacement 250 KVA plant.

Estimated cost for repair and rehabilitation \$180 000

3.25 National Hospital administration building: Leaking roof damaged ceiling tiles. Office records and materials destroyed.

Estimated cost for repair and rehabilitation \$ 30 000

3.26 National Hospital maintenance workshop/Public Health storage building: Roof blown. Water fitting storage building destroyed. Electrical wiring needs replacement.

Estimated cost for repair and rehabilitation \$ 60 000

3.27 Incinerator: Chimneys destroyed. Leaking roof damaged automatic diesel burners.

Estimated cost for repair and rehabilitation \$ 6 000

3.28 Outpatient: 10% damage to the roof. Leaking roof destroyed the ceiling and floor tiles. Furniture and aircondition damaged.

Estimated cost for repair and rehabilitation \$ 30 000

3.29 Compound security light: Post-entrance of maternity room blown down. Other lights broken by flying roofing irons and timbers. Wirings destroyed.

Estimated cost for repair and rehabilitation \$ 5 000

#### 4 District Hospital Upolu:

##### 4.1 Lufilufi Health Centre

Outpatient - 80% damage to roof, internal partitions and windows, 1 coleman light damaged, radio telephone damaged.

Ward block - 100% damage to the whole building.

Nurses' home - 80% damage to the whole building, structurally unstable.

Doctors' house -Minor roofing damage, temporarily repaired and accommodated the nurses.

Electrical wirings need to be checked and reinstalled.

Estimated cost for repair and rehabilitation \$350 000

4.2 Faleapuna sub-centre

60% damage to roofing irons and ceiling, double wallings and electrical wirings need repairs, toilet facilities sustain 100% damage.

Estimated cost for repair and rehabilitation \$ 50 000

4.3 Falefa sub-centre

20% damage to roof, ceiling and floor tiles, windows badly damaged, telephone wire post blown off (already fixed). Much of the repairs carried out by the communities.

Estimated cost for repair and rehabilitation \$ 5 000

4.4 Sauano sub-centre

100% damage to the nurses' quarters. Hospital sustains 60% damage to roofing, ceiling and walls. All windows and two main doors badly damaged. Building structure and electrification need to be inspected for repairs. R. telephone destroyed, sent to Apia for repair.

Estimated cost for repair and rehabilitation \$150 000

4.5 Musumus district hospital

Half of the hospital left from the cyclone was completely destroyed and Cyclone Val. tarpaulins were used to cover for temporary shelter. Nurses' quarters completely destroyed, hurricane light blown away by cyclone and radio telephone damaged.

Estimated cost for repair and rehabilitation \$230 000

4.6 Amaile S.C.

Walling from the nurses' quarters' side totally blown off. The building which accommodated the nurses, OPD and ward including toilet facilities sustain 80% damage to the whole structure. Electrical wiring needs replacement.

Estimated cost for repair and rehabilitation \$ 90 000

4.7 Lalomanu district hospital

Minor damage to blown out roofing irons and rain gutters. Tiles destroyed by the rain. Main power, switchboards and electrical wirings need replacement. Nurses quarters, 10% damage, water pump damaged, radio telephone and solar panel destroyed.

Estimated cost for repair and rehabilitation \$ 60 000.

4.8 Lepa sub-centre

Minor repair to roofing irons blown away. Roofing at the back fixed by the communities.

- Estimated cost for repair and rehabilitation \$ 5 000
- 4.9 Lotofaga sub-centre  
30% damage to OPD, ward and nurses' quarters.  
Estimated cost for repair and rehabilitation \$ 10 000
- 4.10 Salesatele sub-centre  
30% damage to roof and ceiling at the back side of the building. Windows damaged, floor tiles need replacement, nurses home, 20% damage to roofing and tiles, tarpaulins were covered for temporary repairs.  
Estimated cost for repair and rehabilitation \$ 20 000
- 4.11 Poutasi district hospital  
Doctors' house - roof damaged and leaking lean to roof blown off. Windows broken, ceiling and floor tiles need repair.  
Nurses' home - roof damaged and leaking, kitchen, shower and toilet roof blown off.  
OPD - roof damaged and leaking, radio telephone requires repair  
Wards - broken windows, ceiling destroyed, roof damaged and leaking, electrical wiring requires checking.  
Public Health quarters - roof damaged, windows and doors damaged.  
Dental clinic/dental quarters - destroyed.  
Estimated cost for repair and rehabilitation \$240 000
- 4.12 Siumu sub-centre  
Nurses' home - front side of roof blown off, covered with tarpaulins for temporary repairs, ceiling damaged, electrical wiring needs repair.  
Ward/OPD - minor damage to roofing  
Estimated cost for total rehabilitation \$ 10 000
- 4.13 Fusi health centre  
Doctors' house - roof completely damaged, windows and screen and ceiling damaged. 50% damage to the whole building.  
Nurses' home - roof and ceiling completely damaged. Windows and screen destroyed. Solar panels for lights destroyed when roof was blown off.  
Wards - roof damaged and leaking, screen, windows and doors damaged. Solar panels destroyed, radio telephone requires repair.

Annex 1

Estimated cost for rehabilitation \$230 000

4.14 Saanapu Tai S.C.

5% damage to roof where OPD clinic is situated. Floor tiles and mattresses destroyed. The whole building which accommodated outpatient clinic and ward patients sustains minor damage to structures. Patient records damaged. Nurses' home roofing damaged.

Estimated cost for rehabilitation \$ 10 000

4.15 Saanapu Uta

Minor roofing damage to the nurses' quarter and water tank already fixed.  
Estimated cost for rehabilitation \$ 5 000

4.16 Lefaga H.C.

Nurses' quarters sustain 30% damage. Outpatient roof damaged and is leaking. Tiles destroyed. Ward roof sustains 60% damage. Doctors house was destroyed during cyclone. Panel boards for solar broken and destroyed, need replacement. Two water tanks were destroyed. Electrical wirings destroyed.

Estimated cost for rehabilitation \$240 000

4.17 Falelatai health centre

30% damage to all buildings including doctors' house, nurses' house, outpatient ward. Much of the repairs already carried out by communities except the doctors' house. Radio telephone aerial broken, already fixed. Two water tanks damaged.

Estimated cost for rehabilitation \$100 000

4.18 Mulifanua sub-centre

50% damage to ward and outpatient. Patients were relocated to the new building. Radio telephone broke down.

Estimated cost for rehabilitation \$ 80 000

4.19 Manono Tai sub-centre

Outpatient and ward - roof damaged and leaking. Some broken windows. Solar lights broken. Radio telephone broke down.

Nurses' home - roof blown off. About 30% damage to the building. Water tank broken and leaking.

Estimated cost for rehabilitation \$180 000

- 4.20 Apolima Tai sub-centre
- Half of the building was destroyed by Cyclone OFA. The remaining part was destroyed by a fallen coconut tree to the western corner of the building. Roofing irons blown off. No water tank.
- Estimated cost for rehabilitation \$130 000
- 4.21 Leulumoega district hospital
- Doctors' house has roof damaged. Roofing where the operating theatre and delivery room is situated was damaged and was leaking. Mattresses destroyed. Ceiling lights and electrifications need repairs and replacement. Radio telephone damaged.
- Estimated cost for rehabilitation \$ 25 000
- 4.22 Sina sub-centre
- 30% damage to the building housing the outpatients and ward.
- Estimated cost for rehabilitation \$ 40 000
- 4.23 Afega health centre
- Roofing of the OPD and ward building where paediatric ward is situated had roofing irons blown off. Louvers in the doctor's consultation room need replacement. Nurses' quarters sustain 30% damage to roof and ceiling. Electricity needs rewiring. Fridge damaged. Radio telephone damaged.
- Estimated cost for rehabilitation \$ 40 000
- 5 District Services Savaii
- 5.1 Tafua S.C. - Roof of OPD blown off. Structure unstable. Nurses' quarters totally destroyed. Women's Committee Building totally destroyed. Radio telephone tools lost. fridge destroyed. Stove destroyed. Patient records and medical supplies destroyed.
- Estimated cost for rehabilitation \$ 70 000
- 5.2 Sili S.C. - Roof of OPD needs replacement. Nurses' residence's roof partly blown off. Roof of ward needs replacement. Roofing irons blown off. OPD, Nurses' quarters curtains damaged from the rising river.
- Estimated cost for rehabilitation \$ 60 000
- 5.3 Satupaitea H.C. - Nurses and doctors' residence completely destroyed. Electric fridge destroyed. Two-burner stove written off, food safe and crockeries lost. Ward and OPD roof blown off. Louvre windows broken. Ceiling destroyed by rain. Electric fridge destroyed/written off. Hot air sterilizer requires repair/testing. Suction pump requires repair/testing. Radio telephone needs replacement to posts and aerials. Electrical wiring needs replacement.
- Estimated cost for rehabilitation \$160 000

Annex 1

5.4 Palauli S.C. - Some roofing irons were blown off from each of the four buildings/outpatient ward, Nurse residence, and doctors' residence.

Estimated cost of repair \$ 16 000

5.5 Taga S.C. - Roof of the nurses' residence partly damaged. Some roofing irons blown off from roof of the outpatient. Radio telephone aerial damaged.

Estimated cost of repairs and replacement \$ 56 000

5.6 Foalalo D.H. - Doctors' residence completely destroyed. Nurses' residence's roof partly damaged and roofing irons blown off. New outpatient and ward block has 30% roof damage. Nurse supervisor's residence had some roofing blown off. Women's committee house destroyed.

Estimated cost of repair and replacement \$120 000

5.7 Sataua D.H. - Ward and outpatient of this hospital badly damaged. Equipment such as aircondition, fridge, stove, hot air sterilizer, suction pump, scales and medicine destroyed by sea water and rain. Radio telephone and solar panels were also damaged. The water tanks (4) corrugated and 4 concretes were damaged. The residences for nurses, doctors, health inspector and driver had their roofs blown off. The three stoves for these three residences had been destroyed. The fridges require repair and testing. Staff personal effects were damaged by rain and sea water. Electricity of the whole complex needs to be replaced.

The hospital and residences including furniture and equipment sustain 80% damage during the devastation of cyclone Val.

Sea wall constructed by the British Army after Cyclone Ofa still holding firm. The ground again showed evidence of minor erosion due to strong waves where the sea wall had not yet been reached.

Vehicle was damaged by the debris blown from the roof of the OPD, ward and nurses' quarters.

Concrete tanks were used by the villagers for accommodation.

Estimated cost for rehabilitation \$4 700 000

5.8 Falealupo S.C. - 30% damage to the new building, one wing has its roof blown. Ceiling and floor tiles and doors were damaged. All windows rusted. Sand was washed into the damaged area. Radio telephone and beds were damaged.

Estimated cost for rehabilitation \$ 60 000

5.9 Aopo S.C. - This hospital was almost completely repaired for damages sustained during cyclone Ofa when cyclone Val dished out more damage to the roof of the OPD, ward and nurses' quarters. Radio telephone was destroyed.

Estimated cost for rehabilitation is \$ 40 000

5.10 Safotu district hospital - Nurses home completely destroyed. Wards, OPD and doctors' home's roof damaged. Garage roof blown, generator plant shed damaged, kitchen

for patients' food preparation had its roof damaged. Electrical rewiring is required. Three corrugated water tanks destroyed.

Estimated cost for rehabilitation \$180 000

5.11 Fagamalo H.C. - Doctors' house sustains 60% damage. Outpatient has some roofing irons blown off. Wards: Male ward sustains 50% damage. Female ward had some roofing irons blown off. Ceiling damaged by leaking roofs. One wing of the walkway totally destroyed. Both toilet facilities of wards sustaining 60% damage. Nurses' home totally destroyed. Health inspector's residence and kitchen destroyed. Electrical wiring needs total repairs.

Estimated cost for rehabilitation \$250 000

5.12 Samalaeulu S.C. - Nurses' quarters had roofing irons blown off. Solar lighting damaged.

Estimated cost for rehabilitation \$ 16 000

5.13 Patamea S.C. - 30% damage to the building area where the outpatient and conveniences were housed. Electrical and water needs repair.

Estimated cost for rehabilitation \$ 30 000

5.14 Tuasivi Base Hospital

(a) Buildings and facilities sustaining overall damage of 80-100%

- X-ray residence
- dental residence
- regional medical officers' residence
- laboratory residence
- walkways from ward to operating theatre and outpatient
- training room
- garage for vehicles
- ANC maternity

(b) Facilities with 30% damage requiring urgent major repairs

- Outpatient, ward block, kitchen for preparation of patients' food, generator shed, administration block, nurses' home, public health inspectors' residence, double doctors' flat, administration residence.

(c) Paramedic building housing the laboratory section

- Pharmacy, X-ray and dental clinic needs rebuilding due to cracks all the way around the building's wall
- The foundation and structure of building itself sustains 30% damage to the roof and ceiling
- Medical supplies were damaged by the leaking ceiling
- Portable X-ray damaged
- Dental laboratory equipment damaged.

Estimated cost for rehabilitation is \$6 900 000



Annex 1

SUMMARY

Facilities

1.	Health Department Headquarters	\$ 717 000
2.	Nursing School and Quarters	\$ 330 000
3.	National Hospital	\$ 2 591 000
4.	District Health Services, Upolu	\$ 2 300 000
5.	District Health Services, Savaii	\$12 658 000
		-----
		\$18 596 000

Equipments

-	Encompass aircondition, electric generator, autoclaves, refrigerators, walk-in freezer, laundry rollers, coleman lights, hurricane light, solar light panels, radio telephone, double burner stoves, photocopiers, computers, four vehicles, beds, mattresses, adec dental units, portable X-ray, dental chairs, sterilizers, lathes, cardiac analyser, microscopes, mist blowers, incinerators, boilers, food trollies, treatment trollies, bassinets, water pumps, patients and examination beds, typewriters, computers and printers.	\$ 700 000
---	--	------------

Medical Supplies

	Drugs and vaccines damaged by leaking roofs.	
	Dressings and other essential medical supplies	\$ 800 000
		-----

Total Estimated Cost for Rehabilitation WS\$20 096 000

LIST OF EQUIPMENT AND MEDICAL SUPPLIES LOST OR DAMAGED  
DURING THE CYCLONE

01 EQUIPMENT

Equipment reportedly lost due to the cyclone include the following as stated in Department of Health Report of 1 January 1992:

air conditioners; generators; autoclaves; refrigerators; compressor related to laundry rollers; pressure lamps; solar panels; radio telephones; kerosene stoves; photocopiers; computers; beds and mattresses; vehicles; dental units; portable x-ray machines; sterilisers; tools; cardiac analyser; microscopes; mist blowers; food trolleys; treatment trolleys; basements; water pumps; typewriters.

The amount estimated by Department of Health - \$310 000.

02 MEDICAL SUPPLIES

Drugs and vaccines, dressings and other essential medical supplies.

The amount estimated by Department of Health - \$350,000.

Lists and information to substantiate the above were not available for inspection but the above costs would appear about correct.

Using an industry standard formulae based on capital cost of a project, allowance for equipment is in the order of 4% of capital cost.

Assuming average size of health facility in Western Samoa is 250 sq.m. (OPD and Ward average) at US\$800 per sq.m., gives US\$8000 for equipment supply average - 38 facilities equals US\$304,000.

COSTING PRINCIPLES AND DEFINITIONS  
AND DETAILED COSTINGS

The following considerations form the basis for finalisation of the opinion of probable costs given in this section and as detailed out in Appendices 1 to 40.

- (1) rectification work related to damage caused by tropical cyclone 'Val' and takes into account, in some cases, associated damage caused by tropical cyclone 'Ofa'.
- (2) where rectification work cannot be reasonably well carried out without providing some normal maintenance work associated, this is included - but not to any great degree.
- (3) quite a number of buildings throughout the country are in advanced stages of disrepair, and for example where stability of structure or walls is not sufficient to support a new roof structure, the walls are rebuilt.
- (4) all new works have been costed with consideration to acceptable Pacific cyclone building codes (e.g. Building Code of Fiji, and the Queensland Building codes of Australia, and the New Zealand light timber framing codes).
- (5) where a badly rusted roof has some sheets replaced this is done - not all sheets are replaced unless they are damaged, but the stability of the structure will be assured under the costing process.
- (6) where electrical supply has been massively disrupted or water damaged it has been costed for replacement. Where minor damage has occurred only check and minor replacement costs have been allowed.
- (7) water supply - refer "Definitions and Materials".
- (8) where loose linoleum is on floors, and is in good condition, it has not been replaced.
- (9) women's committee rooms, and other non-hospital facilities are attached to the hospital buildings; they have not been considered for inclusion in this report.
- (10) all areas discussed in this report are approximate only, as are all opinions of cost. No detailed assessment of costs has been entered into, but local information has been used as a basis, with reference to current information from other relevant sources.

#### 4.1.3 Definitions and Materials

The following interpretations and "broad band" definitions have been used and are as follows:

- (1) "check roofing" - inspect and assess for structural stability of roof framing and sheeting fixings to cyclonic standards and allow a sum of money assuming most roofs will not comply.
- (2) "new roof sheeting" - new 0.53 mm thick prefinished (coloured) zincalume (not galvanised) roof sheeting fixed to cyclone standards, and including for flashings, gutters and downpipes and purlins.
- (3) "new ceiling lining" - new tempered hardboard (6mm) or plywood sheeting, including painting and associated cover battens.
- (4) "paint" - generally allowed for a three coat system after cleaning.
- (5) "repair"/"renovate" - a sum of unallocated money for miscellaneous repair work and would include, fly screens, door, furniture and joinery, checking and minor repairs to water and drainage services, supply of solar panels, rectification of RT aerial where not specifically included elsewhere, and similar items of a general nature.
- (6) "water supply" - included in "repair/renovate" above.
- (7) "vinyl flooring" - sheet vinyl cold or hot welded as appropriate not vinyl tiles.
- (8) "new water tanks" - supply of water tanks either in fibreglass, concrete or timber construction and including for roof water connection, tap and fixing down to stand or slab. A small amount of attached pipework is also included.
- (9) "louvres" - louvres should only be used away from the sea (500 metres or more) and then only in full aluminium and plastic/stainless steel construction.
- (10) "timber windows"/"sashes" - windows consisting of casement (side hung) windows in existing frames.
- (11) "convert" - all costs associated with the physical side of the conversion of the existing structure to the new use.
- (12) "construct new building" - all construction costs associated with the new building to cyclone standards.
- (13) "demolish" - means remove all traces of the existing structure.
- (14) "vinyl tile" - means "vinyl sheet".
- (15) "locational loading" - a percentage applied to overall cost due to distance/difficulty in obtaining labour/materials, from a main centre.
- (16) "site services" - an allowance to check and provide minor rectification works to services outside the building line.

Name of Facility : NATIONAL REFERRAL HOSPITAL

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	----	----
02	Site Services	----	Refer definition	----	----
03	Water Pump House	----	Rectified		
04	Family Welfare	70	New roofing (temporary repairs made)	2 200	2 200
		40	New vinyl tiles	1 300	1 300
		100	New acoustic ceilings	3 300	3 300
		200	- Paint	1 200	1 200
			- Airconditioning unit (window)	2 000	2 000
05	Nutrition Centre	80	- Check roof	2 500	2 500
			- Rectified	----	----
06	SPDC Building (Diabetics Clinic)	300	- Check roof	9 600	9 600
		300	- New roofing	12 000	12 000
		200	- Paint - 1st floor repairs	1 200 5 000	1 200 5 000
07	Maternity (Delivery Suite)	2 000	Check roof	10 000	
		30	- New acoustic ceiling tiles	1 000	1 000
			- Re-flash roof ridge vents	10 000	10 000
			- Re-hang entry doors	500	500
			- Replace 24V backup system	6 000	6 000
- Check roof (has been repaired)	----	----			

## Annex 3

## Appendix 1

Name of Facility : NATIONAL REFERRAL HOSPITAL

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
08	Maternity (Post-natal - 2)	----	Check roof	----	----
		----	- New timber panel glazed doors	600	600
		20	- Sliding door, reglaze		
			- New acoustic ceiling tiles	700	700
		50	- New vinyl sheet	1 600	1 600
		850	- Check roof	4 300	
			- Re-flash roof ridge vents	4 300	4 300
09	Paediatric A		- Internal fittings	4 000	4 000
			- Electrical check done	----	----
			- Repair	5 000	5 000
		----	- New louvre banks: say, 10 x 7 blade	2 200	2 200
			- New louvre banks 12 blade	2 500	2 500
		5	- New acoustic ceiling tiles	200	200
10	Paediatric B		- Repair	3 200	3 200
		850	Check roof	4 200	4 200
		760	- New vinyl sheet	24 300	24 300
			- New louvre banks 12 x 12 blade	2 700	2 700
			- Check electrics, wiring and new fittings required	15 000	15 000
			- Rectify structural crack in treatment room by saw cutting and sealing	3 000	3 000
		760	- New hardboard ceiling in lieu of acoustic tiles	25 000	25 000
	- New glass to entry doors	800	800		
	- Repair	12 000	12 000		

Name of Facility : NATIONAL REFERRAL HOSPITAL

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$		
				REHAB.	RECOMMEND	
11	Walkway (Adj. Paediatric)	160	- New cyclone clipped roof sheeting	6 400	6 400	
12	Medical Students Residence (Yellow House)	105	- Construct new accom. bldg utilising existing walls	50 000	50 000	
13	Acute Ward 7 (Lower)	20	- New ceiling tiles	700	700	
			- New louvres 8 x 10 blade	1 800	1 800	
			- New sliding doors 2 x 2000 x 4000	6 000	6 000	
			- Repair vinyl floors	1 300	1 300	
			- New glass in various existing frames	3 000	3 000	
14	Acute Ward 8 (Upper)	40	- New ceiling tiles	1 300	1 300	
			- Rectify roof leaks	3 500	3 500	
			- New glass in various sashing frames	1 500	1 500	
15	OPD	1 400	Check roof	7 000	7 000	
			- New ceiling tiles	400	400	
		10	- Repair vinyl floor	1 000	1 000	
16	OPD Outside waiting	60	New ceiling	2 000	2 000	
			80	Repitch roof	---	5 600
17	National Admin.	700	Check roof	3 500	3 500	
			3	- Replace ceiling tiles in foyer	100	100
				- Replace glazed double doors (2 off.)	1 200	1 200
				- Repair medical records ceiling and repaint	5 000	5 000
		70	Replace ceiling tiles in offices	2 300	2 300	

Annex 3

Appendix 1

Name of Facility : NATIONAL REFERRAL HOSPITAL

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
18	Radiology	650	Check roof and repair	3 300	3 300
		90	Demolish and rectify A/C housing on main roof including waterproofing all roof penetrations	23 000	23 000
		50	Replace ceiling tiles in various locations	1 700	1 700
		50	- Replace vinyl tiles	1 600	1 600
			- Replace broken glass to doors and fixed panes	1 500	1 500
			- New entry sliding doors (3000 x 2200)	3 000	3 000
			- Repair	8 000	8 000
19	Theatre/ CSSD	1 600	Check roof and repair numerous holes and rips	15 000	15 000
		40	1st floor plantroom walling replace	1 500	1 500
		60	CSSD ceiling lining replace	2 000	2 000
20	Laboratory	2 500	Check roof	8 000	8 000
		40	Acoustic ceiling tiles replace (corridor and electric switchroom)	1 300	1 300
		60	New vinyl tiles to corridor	2 000	2 000
		150	New ceiling to Lab 1	5 000	5 000
		150	- New vinyl tiles	4 800	
			- Replace broken louvre blades (say 30)	500	500
		120	New ceiling to Lab 2	3 800	3 800
		120	New vinyl tiles	3 800	3 800
		70	New ceiling to Haematology Unit	1 000	1 000
		30	- Repair vinyl tile floor in Haematology Unit	2 300	2 300
			- Repair	5 000	5 000



Name of Facility : NATIONAL REFERRAL HOSPITAL

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
21	Pharmacy	120	New ceiling	3 800	3 800
		120	- New vinyl tiles	3 800	3 800
			- New louvre blades (say 40)	600	600
		30	New ceiling to corridor	1 000	1 000
		40	- New ceiling to Manufacturing Room	1 300	1 300
			- New fire door to fire escape	500	500
20	- New vinyl tiles in Dispensing area	700	700		
	- Repair	2 000	2 000		
22	Dentistry Clinic	250	New vinyl tiles to all clinics	8 000	8 000
23	Dental School	300	- Check roof (temporarily rectified)	9 600	----
			- New roof sheeting and framing	21 600	----
		300	- New ceilings	10 000	----
			- Repair	12 000	----
			- New floor coverings	9 600	----
	- Demolish whole building	----	3 000		
	300	Construct new building	----	156 000	
24	Kitchen	1 000	- Check roof	5 000	5 000
			- Replace ventilation cowls over kitchen vents	2 000	2 000
		8	- Repair ceiling to cooking area---replace ceiling sheets	500	500
			- Replace one cool room compressor on roof	1 800	1 800
			- Replace louvre blades	500	500
	- Repair	3 000	3 000		

Annex 3

Appendix 1

Name of Facility : NATIONAL REFERRAL HOSPITAL

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
25	Laundry	600	- Check roof	3 000	3 000
			- Main roller press damaged (compressor and motor removed and being repaired)	1 500	1 500
			- Main building compressor damaged has been removed for repair - rectify	4 000	4 000
			- Repair damaged roof	3 000	3 000
			- Repair	2 000	2 000
26	Ward 5	380	Check roof	12 000	----
			New roof sheeting	15 200	----
			- "Caneite" ceiling replace	12 500	----
			- Check electrics	5 000	----
			- Demolish	----	5 000
27	Walkway (Adjacent Laundry, Wards and Filariasis)	75	Reconstruct light frame walkway	18 800	18 800
28	Mortuary (unused)	60	Demolish remains	1 000	1 000
29	Immigration and STD	300	Check roof	9 600	9 600
			- New roof sheeting	12 000	12 000
			- Refit internal doors and replace as necessary	6 000	6 000
			- Repair	6 000	6 000
30	Filariasis Centre (1950s' maternity ward)	180	Check roof	5 800	----
			- New roof sheeting	7 200	----
			- Repair	7 200	----
			- Demolish	----	4 000

Name of Facility : NATIONAL REFERRAL HOSPITAL

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
31	TB and Leprosy Ward	1 200	Check roof	38 400	8 000
		1 200	New roof sheeting	48 000	10 000
		1 200	New ceiling linings	39 600	8 300
		1 200	- Repair - Demolish 950 sq.m.	48 000 ----	---- 8 000
		250	Repair	----	10 000
32	Doctors Common Room	300	Check roof (roof leaking)	4 000	4 000
		2	New ceiling tiles	100	100
		5	Replace broken glass	600	600
		5	New vinyl tiles in kitchen	500	500
33	Physio- therapy (part of Theatre/ CSSD building	5	- Replace ceiling tiles	300	300
			- Check roof (refer theatre building)	----	----
34	Generator Housing	----	No work	----	----
35	Nurse Duty Point Building	60	- Check roof - Repair	2 400 2 400	2 400 2 400
		60	New roof sheeting	2 400	2 400
36	Ward 10	- (House 1)	- Check roof	3 000	3 000
			- New roof sheeting	3 000	3 000
			- Repair	1 000	1 000
		- (House 2)	- Check roof	3 000	3 000
			- New roof sheeting	3 000	3 000
			- Repair	1 000	1 000
		- (House 3)	- Check roof	3 000	3 000
			- New roof sheeting	3 000	3 000
			- Repair	1 000	1 000

Annex 3

Appendix 1

Name of Facility : NATIONAL REFERRAL HOSPITAL

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
	- (House 4)	150	- Check roof	3 000	3 000
			- New roof sheeting	3 000	3 000
			- Repair	1 000	1 000
37	- (Walkway)	120	- Reconstruct light frame walkway	30 000	30 000
	Maintenance Workshop	50	Building demolished, remove remains	1 500	1 500
		100	Construct new workshop	50 000	50 000
38	Old Boiler House (Painters store)	---	Demolish remains	5 000	5 000
		50	Construct new paint store as part of maintenance workshop	25 000	25 000
39	Mechanics Workshop	300	Demolish remains	8 000	8 000
		300	Construct new workshop	150 000	150 000
40	Splint building	160	Check roof	5 100	5 100
		160	New roof sheeting	6 400	6 400
		160	New ceiling	5 300	5 300
		160	New vinyl flooring	5 100	5 100
41	Nurse Dining	280	Check roof	8 900	8 900
		280	- New roof sheeting - New double screen doors	11 200	11 200
				<hr/>	<hr/>
				1 130 000	1 046 200

NOTE: The roofs of mid-1980s' buildings with a "spray on" material over metal tray, are in a poor state of repair generally. The "spray on" material is delaminating and the metal tray is rusting. No allowance has been made to replace these roofs, but some allowance is included for repair of penetrations and damage caused during the cyclone.

Name of Facility : LUFILUFI HEALTH CENTRE  
 District : LUFILUFI  
 Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	2 500	Refer definition	9 200	2 100
02	Site Services	---	Refer definition	3 100	1 600
03	OPD	110	- Check roofing	3 500	3 500
			- Reconstruct RT aerial and structure	1 000	1 000
		7	- Rebuild window (awning (N. Side))	400	400
		60	- New roof sheeting	2 400	2 400
		110	- New ceiling lining	3 600	3 600
			- New double doors	600	600
		200	- Paint	1 200	1 200
04	Ward	180	- Repair	4 400	4 400
			- Convert to include a 2-bed ward	---	4 000
			- New water tanks	2 700	2 700
05	Old OPD	100	- Construct new building including services	93 600	---
			- Demolish remainder of building (floor slab)	---	1 500
06	Amenities	24	- Demolish	2 500	2 500
07	Doctor House	100	- New roof sheeting and pitched framing	1 800	1 800
			- Check and repair roof	3 200	3 200
08		20	- Electrical	2 400	2 400
			- Replace ceiling lining	700	700
09	Nurse Accom.	100	- Convert to nurse accom.	---	4 000
			- Construct new building including services	60 000	---
				<u>193 200</u>	<u>45 000</u>

Name of Facility : FALEAPUNA SUB CENTRE

District : LUFILUFI

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	1 200	1 200
02	Site Services	-----	Refer definition	1 300	1 300
03	OPD	112	- Check roof	3 500	3 500
		5	- New ceiling lining	200	200
		40	- New roof sheeting	1 600	1 600
			- New water tanks	2 700	2 700
04	Nurse Accom.	40	- New roof sheeting and check and check	1 600	1 600
		30	- New ceiling lining	1 000	1 000
		15	- Reconstruct front section of nurse home (has been completed but check)	5 500	5 500
05	Amenities	9	- Construct new amenities	7 500	7 500
		9	- Demolish remains of existing	500	500
				<hr/> 26 600	<hr/> 26 600

Name of Facility : FALEFA SUB CENTRE

District : LUFILUFI

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	500	500
02	Site Services	----	Refer definition	1 600	1 600
03	OPD	140	- All repairs completed by community - check construction - New water tanks	4 500 2 700	4 500 2 700
04	Nurse Accom.	60	- As above	2 000	2 000
				<u>11 300</u>	<u>11 300</u>

Name of Facility : SAUANO SUB CENTRE

District : LUFILUFI

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	2 700	2 700
02	Site Services	----	Refer definition	1 400	1 400
03	OPD	70	- Check roof	2 200	2 200
		10	- New roof sheeting	400	400
			- New timber framed casement windows - 30 sashes	3 300	3 300
		5	- Replace external cladding	200	200
			- New single door	300	300
		10	- New wall linings	300	300
		10	- New ceiling linings	400	400
		5	- Repair structural wall	500	500
			- Reconstruct RT aerial and structure	1 200	1 200
			- New water tanks	2 700	2 700
04	Nurse Accom.	100	- Demolish remains	700	700
		80	- Construct new building including services	41 600	41 600
				<hr/> 58 000	<hr/> 58 000

**NOTE:** Serious consideration should be given to re-siting this facility further away from the sea.



ANNEX 3  
APPENDIX 6

Name of Facility : MUSUMUSU SUB-CENTRE  
District : FAGALOA  
Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	7 000	7 000
02	Site Services	----	Refer definition	2 000	1 000
03	OPD	120	- Only 48 sq.m. of existing building left - in poor repair - demolish and reconstruct new building on existing slab incorporating nurse accommodation	80 000	80 000
			- New water tanks	2 700	2 700
04	Nurse Accom.	120	- Demolish remains		1 500
		120	- Construct new building including services	62 400	----
				<hr/> 154 400	<hr/> 89 200

**NOTE :** There is discussion regarding re-siting this facility further away from the sea - this would be beneficial.

Name of Facility : AMAILE SUB CENTRE

District : ALEIPATA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	1 800	1 800
02	Site Services	-	Refer definition	1 600	1 600
03	OPD	200	- Check roofing	6 400	6 400
		100	- Re-fix roofing	1 500	1 500
		30	- Construct new external walls off existing concrete floor	3 300	3 300
		30	- Construct new roof framing, sheeting and ceiling linings and louvres	3 100	3 100
			- New louvres 5x9 blades	1 100	1 100
			- Rewire electrics as required and provide fittings	4 000	4 000
			- Repair	8 000	8 000
04	Amenities	8	- New water tanks	2 700	2 700
			- Construct new building on existing slab	6 400	6 400
				<hr/>	<hr/>
				39 400	39 400

Name of Facility : LALOMANU DISTRICT HOSPITAL

District : ALEIPATA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	2 000	1 000
02	Site Services	----	Refer definition	4 800	1 500
03	OPD	150	- Check roof	4 800	4 800
			- New water tanks	2 700	2 700
04	Wards	450	- Check roof	14 400	3 000
		30	- Rectify minor roof damage	1 200	
		120	- Replace vinyl tile floor	3 800	
			- New louvres - 34 x 9 blade including screens and mesh	7 500	
			- repair		
			- Demolish whole building with the exception of entry and 6 x 2 bed wards and facilities		7 000
05	Nurse Accom		- No damage	----	----
				41 200	20 000

Name of Facility : LEPA SUB CENTRE

District : ALEIPATA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	1 400	1 100
02	Site Services	----	Refer definition	1 600	1 600
03	OPD	190	- Check roof	6 000	6 000
		20	- New roof sheeting	800	800
			- New water tanks	2 700	2 700
			- Convert to include for nurse accommodation		10 200
04	Nurse Accom.	35	- New roof sheeting	1 400	----
		35	- Check roof	1 100	----
		35	- New ceiling lining	1 200	----
		35	- Leave for community use	----	----
				16 200	21 600

Name of Facility : LOTOFAGA SUB-CENTRE

District : ALEIPATA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	1 100	900
02	Site Services	----	Refer definition	1 100	800
03	OPD	140	- Check roof	4 500	4 500
		140	- New roof sheeting	5 600	5 600
			- Convert to include for nurse accomodation	----	3 400
			- New water tanks	2 700	2 700
04	Nurse Accom	80	- Check roof	2 500	----
		80	- Replace whole roof sheeting	3 200	----
		80	- New ceiling linings	2 600	
			- New louvres 6x8 blades	1 300	----
			- Demolish whole building		800
				-----	-----
				24 600	18 700

Name of Facility : SALESATELE SUB CENTRE

District : FALEALILI

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	1 200	1 200
02	Site Services	----	Refer definition	2 000	2 000
03	OPD	120	- Check roof	3 800	3 800
		20	- Replace roof sheeting	800	800
		66	- New floor vinyl to ward area	2 100	2 100
		16	- New ceiling lining to OPD	500	500
			- New timber framed casement windows - 14 sashes	3 000	3 000
			- New water tanks	2 700	2 700
04	Nurse Accom.	130	- Check roof	4 100	4 100
		80	- New roof sheeting	3 200	3 200
		20	- New ceiling lining	700	700
			- New timber framed windows 6 - sashes	1 300	1 300
				25 400	25 400

Name of Facility : POUTASI HEALTH CENTRE

District : FALEALILI

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	2 600	3 000
02	Site Services	----	Refer definition	4 000	3 000
03	OPD	130	- Repair and new roof - Demolish whole building	10 400 ----	---- 2 000
04	Wards	280	- Check roof	9 000	9 000
		70	- New roof sheeting	2 800	2 800
			- New louvres, 14 x 9 blade	3 200	3 200
		120	- New ceiling lining	6 300	6 300
			- New glass blades - 130	500	500
			- Convert one ward into OPD - New water tanks	---- 2 700	25 200 2 700
05	Doctor House	90	- Check roof	2 800	
		25	- New roof sheeting and lean-to framing	1 800	
		25	- New ceiling lining	800	
		15	- New roof sheeting	600	
			- New louvres - 5x10 blade - Demolish	1 100	
06	Nurse Accom.	80	- Check roof	2 500	2 500
		20	- New roof sheeting and lean-to framing	1 500	1 500
		30	- New ceiling lining	1 000	1 000
07	Public health		- No work	----	----
08	Dental clinic		- Demolish	800	800
09	Old Dental	50	- Demolish	800	800
10	Food Store	45	- Demolish remains	200	200
				<u>55 400</u>	<u>66 000</u>

Name of Facility : SIUMU SUB CENTRE

District : SAFATA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	400	400
02	Site Services	----	Refer definition	500	500
03	OPD/Wards	140	Check roof	4 500	4 500
		20	- New roof sheeting	800	800
			- Check electrics	400	400
04	Nurse Accom.	48	- Check roof	1 500	1 500
		30	- New ceiling	1 000	1 000
				9 100	9 100

NOTE: All cyclone repair work and general maintenance has been undertaken by the women's committee, generally a very good facility even though, as most facilities, underutilised.



Name of Facility : FUSI DISTRICT HOSPITAL

District : SAFATA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	4 600	4 600
02	Site Services	----	Refer definition	4 000	4 000
03	OPD/ Wards	280	- Check roof	9 000	9 000
		30	- New roof sheeting and lean-to framing on Ward/toilet block	2 100	2 100
			- New louvre windows, 3x8 blade	600	600
			- New louvre blades - say 40	200	200
		40	- New roof sheeting	1 600	1 600
			- New double entry doors	600	600
		50	- New ceiling to verandah	1 600	1 600
		3	- Replace eaves battens at entry	200	200
			- Repair	11 000	11 000
			- New water tanks	2 700	2 700
04	Old Amenities Block	20	- Demolish remains	1 000	1 000
05	Doctor House	120	- Check roof	3 800	3 800
		60	- New roof sheeting and framing	4 300	4 300
		120	- New ceiling, lining and battens	4 000	4 000
			- New windows - 12 x 8 blade	2 600	2 600
			- New electrics	3 000	3 000
06	Nurse	96	- Check roof	3 000	3 000
		96	- New roof sheeting and framing	7 000	7 000
		96	- New ceiling	3 000	3 000
			- New water tanks	2 700	2 700
				<u>86 900</u>	<u>86 900</u>

Name of Facility : SAANAPU-TAI SUB CENTRE

District : SAFATA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	2 400	1 300
02	Site Services	----	Refer definition	500	500
03	OPD	180	- Check roof	5 700	5 700
		180	- New roof sheeting and framing	7 200	7 200
		50	- Convert part for nurse accommodation	----	8 500
			- New water tanks	2 700	2 700
04	Nurse Accom.	80	- Demolish remains	----	1 000
			- Repair	32 000	----
05	Old clinic	40	- Demolish	500	500
				51 000	27 400

Name of Facility : SAANAPU-UTA SUB CENTRE

District : SAFATA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	400	400
02	Site Services	----	Refer definition	200	200
03	OPD	180	- Check roof	4 400	4 400
			- New water tanks	2 700	2 700
04	Nurse Accom.	35	- Check roof	1 100	1 100
			- New water tanks	incl.	incl.
				<hr/> 8 800	<hr/> 8 800

NOTE: All work has been completed by the community, leaving only the above to be carried out.

Name of Facility : LEFAGA HEALTH CENTRE

District : LEFAGA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	5 300	3 000
02	Site Services	----	Refer definition	3 000	1 000
03	OPD	140	- Check roof	4 400	----
		20	- New roof sheeting	800	----
		140	- Renovate	5 600	----
			- Review electrics	2 000	----
			- New windows, timber framed casements - 20 sashes	4 400	----
			- Demolish total building, including walkway	----	3 000
			- New water tanks		
04	Ward Wing	260	- Check roof.	8 300	8 300
		150	- New roof sheeting	6 000	6 000
			- New windows, timber framed casements - 17 sashes	3 700	3 700
		260	- Renovate (especially boarded ceiling)	10 000	10 000
		50	- Reconstruct internal partitions around duty point	3 200	3 200
		30	- New ceiling in walkway	1 000	1 000
			- New water tanks	2 700	2 700
		- Convert 80 sq.m. into OPD	----	13 600	
05	Nurse Accom. Wing	80	- Check roof	2 500	2 500
		50	- New roof sheeting	2 000	2 000
			- Renovate	3 200	3 200
06	Doctor House	80	- Demolish remains	----	500
		80	- Construct new house	41 000	----
				111 800	63 700

Name of Facility : FALELATAI HEALTH CENTRE

District : FALELATAI

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	4 100	2 800
02	Site Services	----	Refer definition	1 500	1 500
03	OPD	300	- Check roof (roof has been replaced by community	9 600	9 600
		40	- New veranda ceiling	1 300	1 300
		100	- New roof sheeting	4 000	4 000
		50	- Renovate	2 000	2 000
			- New water tanks	2 700	2 700
			- Construct new septic tank	1 500	1 500
04	Doctor House	120	- New roof sheeting and framing	3 800	----
			- New ceiling lining	3 900	----
			- Renovate	4 800	----
		120	- New V.T. flooring	3 800	----
		20	- Reconstruct back verandah	4 000	----
			- Paint	200	----
		30	- Repair some wall linings	1 000	----
			- New electrics	2 400	----
			- New water tanks	2 700	----
			- Demolish whole building	----	800
05	Nurse Accom.	132	- Check roof	4 200	4 200
		30	- New roof sheeting	1 200	1 200
		40	- Demolish and reconstruct back 3 metres of building underpinned by waves (kitchen, dining and bathroom)	20 800	20 800
			- New water tanks	2 700	2 700
06	Old Ward	160	- For community use	---	---
07	New Ward	150	- Check roof (this ward is extremely undertutilised)	4 800	4 800
				87 000	59 900

Name of Facility : APOLIMA-TAI SUB CENTRE

District : MULIFANUA/APOLIMA

Island : APOLIMA

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	1 500	1 500
02	Site Services	----	Refer definition	500	500
03	OPD	66	- 2 new 2000L water tanks on stands	2 700	2 700
			- R.T. posts and replace aerial	1 000	1 000
		12	- rebuild destroyed part of building and convert to nurse accom.	6 200	6 200
		54	- check repaired roof	1 700	1 700
			- 20 new louvre blades	200	200
		54	- new ceiling	1 700	1 700
		10	- wall linings	300	300
		100	- paint internally	600	600
			<hr/>	<hr/>	
			16 400	16 400	

Name of Facility : MANONO-TAI HEALTH CENTRE

District : MULIFANUA/MANONO

Island : MANONO

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$		
				REHAB.	RECOMMEND	
01	Locational Loading	----	Refer definition	1 500	1 600	
02	Site Services	----	Refer definition	1 000	1 000	
03	OPD	96	- Check repaired roof	3 000	3 000	
			- Solar panels	1 500	1 500	
			- Convert part for ward accommodation	----	3 400	
04	Nurse Accom.	72	- Check repaired roof	2 300	2 300	
			24	- New roof to amenities	1 700	1 700
				- Repair amenities	960	960
				- New water tank	2 700	2 700
05	Ward	48	- Repair	1 900	----	
			- This building for community use			
				16 500	18 200	

NOTE: This is a very large facility but the community carries out all renovations, so currently is minimum burden on the DOH.

Name of Facility : MULIFANUA SUBCENTRE  
 District : MULIFANUA  
 Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$		
				REHAB.	RECOMMEND	
01	Locational Loading	-	Refer definition	800	800	
02	Site Services	-	Refer definition	500	500	
03	Ward	96	Check repaired roof	3 000	3 000	
			Solar panels	1 500	1 500	
			Convert part for ward for OPD and nurse accommodation	-	6 800 6 800	
04	OPD	72	Demolish	-	1 000	
			24	New roof to amenities	1 700	-
				Repair amenities New water tank	1 000 2 700	- -
05	Nurse	48	Repair	1 900	-	
			Demolish	-	1 000	
06	Additional		Provide	2 700	2 700	
				18 100	17 300	



Name of Facility : SINA SUBCENTRE

District : LEULUMOEGA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	200	-
02	Site	-	Refer definition	200	-
03	OPD	40	New roofing	2 800	-
			New ceiling	1 300	-
		100	Paint	600	-
		40	Demolish		500
				<hr/>	<hr/>
				5 100	500

NOTE: Extremely poor quality building.  
Suggest consideration be given to demolition in light of proximity of Leulumoega District Hospital.

Name of Facility : LEULUMOEGA DISTRICT HOSPITAL  
 District : LEULUMOEGA  
 Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading		Refer definition	4 100	5 800
02	Site services		Refer definition	2 000	2 000
03	OPD	400	Check roof leaks (bitumen shingles) New roof sheeting	4 000 16 000	4 000 16 000
04	Wards	400	Check roof leaks New roof sheeting Convert to 10 bed ward & teaching facilities	- 16 000 -	- 16 000 34 000
05	Nurse accom.	81	Remove tree Leaning on Building and repair	4 500 1 600	4 500 1 600
		50	New vinyl tiles New roof sheeting Repair	5 800 3 200	5 800 3 200
06	Public health	81	New roof sheeting	5 800	5 800
07	Doctors house	81	New roof sheeting and battens New ceilings New vinyl tiles	5 800 2 600 2 600	5 800 2 600 2 600
		09	New bathroom fitout Repair	4 000 3 200	4 000 3 200
08	Additional water tanks		Provide	5 400	5 400
				<hr/> 86 600	<hr/> 122 300

Name of Facility : AFEGA HEALTH CENTRE  
 District : AFEGA  
 Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	-	- Refer definition	1 800	1 800
02	Site Services	-	- Refer definition	1 500	1 500
03	OPD	150	- Renovate	6 000	6 000
			Convert to incorporate 4 bed ward	-	8 500
04	Wards	250	Check repaired roof	8 000	-
		125	Replace roof Sheeting to paediatric ward	5 000	-
			Demolish paediatric ward		2 500
			Repair medical ward	5 000	-
			Demolish medical ward		2 500
05	Nurse accom.	100	Check roof	3 200	3 200
		50	New roof sheeting and framing	3 600	3 600
			New louvre blades (30 off.)	300	300
		20	New ceiling lining	700	700
			New back and front doors	500	500
		150	Paint	1 000	1 000
06	Additional water tanks		Provide	2 700	2 700
				<hr/>	<hr/>
				38 300	34 100

Name of Facility : TUASIVI BASE HOSPITAL  
 District : FAASALELEAGA  
 Island : SAVAII

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	35 700	28 200
02	Site services	-	Refer definition	20 000	15 000
03	OPD	200	Check roof (new roof sheeting has been fixed)	6 400	6 400
		190	Paint externally	1 200	1 200
		200	Paint ceiling (some new ceilings been fixed)	1 600	1 600
		280	Paint internally	1 700	1 700
			Repair	11 200	11 200
			New water tanks	2 700	2 700
			Electrical check	3 000	3 000
	Convert 40 sq.m. into dispensary		-	6 800	
04	Walkway 1	50	Demolish remains and construct new walkway roof and pipe supports	6 000	6 000
05	Wards	500	Check roof (new roof sheeting has been fixed)	16 000	16 000
		140	Convert part for laboratory, dental, X-ray	-	23 800
		200	Paint	13 200	13 200

118.700

136.800

Annex 3

Appendix 25

Name of Facility : TUASIVI BASE HOSPITAL  
 District : FAASALELEAGA  
 Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
16	Pharm. staff	72	Check roof	2 300	2 300
		220	Paint internally repair	1 300	1 300
17	Dentist	75	Demolish remains	1 000	1 000
		(22, 18 <sup>7</sup> )	New construction	39 000	39 000
				482 700	380 800

NOTE : It is believed that a new hospital may be constructed on this site within 5-8 years. Should this be the case a reassessment of this proposal should be carried out.

Annex 3

Appendix 25

Name of Facility : TUASIVI BASE HOSPITAL

District : FAASALELEAGA

Island : SAVAII

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
06	Theatre building	200	Check roof New roof sheeting (some been replaced temporarily)	8 000	8 000
		120	Paint ceiling (new ceiling has been installed in maternity) Check electrical rewiring Repair Fit air-conditioning units	1 000 1 000 8 000 6 000	1 000 1 000 8 000 6 000
07	Adm.	40	New internal wall linings	1 300	1 300
			New hot water system	2 000	2 000
			New water tanks	2 700	2 700
08	Paramedic	330 (100%)	(This building in a poor state of repair not only due to cyclone damage. Structural inadequacies make it uneconomical to rectify)		
09	Public	200 (60%)	Demolish whole building	10 000	10 000
		90	Rebuild Check roof (new roof has been fixed) Paint ceiling (new ceiling has been installed) Repair New water tanks	120 000 <del>(15,600,000)</del> 2 800 800 3 600 2 700	- 2 800 800 3 600 2 700

Name of Facility : TUASIVI BASE HOSPITAL

District : FAASALELEAGA

Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
10	Nurse accom.	210	(2 storey building) Check roof. (new roof installed including framing	6 700	6 700
		180	New ceiling to upper floor and most of lower Rehang doors	5 900 500	5 900 500
		500	Paint interior Reconstruct stairs	3 000 2 000	3 000 2 000
		130	New vinyl flooring New eaves and barge linings	4 100 2 500	4 100 2 500
			New water tanks	2 700	2 700
11	Doctor house 2	250	(2 storey building) check roof. (new roofing installed)	8 000	8 000
12	Doctor house 1	100	Demolish remains	1 500	1 500
		(30.25)	New construction	52 000	52 000
		20	New amenities block	16 000	16 000
13	X-ray	60	Demolish remains	1 000	1 000
		(10.15)	New construction	31 200	31 200
14	Admin. staff	45	Check roof	1 400	1 400
		85	Check roof New roof sheeting Repair	2 700 3 400 3 400	2 700 3 400 3 400
15	Lab. Tech.	85	Check roof	2 300	2 300
		220	Paint internally repiar	1 300	1 300

Name of Facility : TAFUA TAI SUBCENTRE

District : PALAULI

Island : SAVAII

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	3 000	2 900
02	Site services	-	Refer definition	1 000	1 000
03	OPD	66	New roof sheeting	2 600	2 600
			Check roof structure	2 100	2 100
			New ceiling lining	2 200	2 200
		150	New wall linings	4 900	4 900
			New timber framed casement windows - 40 sashes	8 000	8 800
			2 sets double doors	600	600
			New water tanks	2 700	2 700
04	Nurse accom.	50	Fale construction reconstruct.	12 000	12 000
05	Ward		Check roofing	1 300	-
		10	New roof sheeting	400	-
			demolish		500
				<hr/> 41 600	<hr/> 40 300



Name of Facility : PALAULI HEALTH CENTRE

District : PALAULI

Island : SAVAII

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	-	Refer definition	1 400	1 400
02	Site Services	-	Refer definition	2 000	2 000
03	OPD	105	Check roofing	3 300	3 300
04	Wards	224	Check roofing	7 100	7 100
05	Nurse accom.	90	Check roofing	2 800	2 800
	20		Reconstruct rear verandah	2 400	2 400
				<hr/> 19 000	<hr/> 19 000

NOTE: This facility is kept in excellent condition, all repair work having been done by the community.

Name of Facility : SATUPAITEA HEALTH CENTRE  
 District : SATUPAITEA  
 Island : SAVAIH

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	9 600	4 600
02	Site services	-	Refer definition	1 200	1 200
03	OPD/wards	325	Check roof structure	10 400	4 000
		120	New roof sheeting	4 800	4 800
		325	New ceiling linings	10 700	4 100
		150	New roof sheeting and structure	10 800	2 400
			New louvre blades - 50	400	400
		100	New internal linings	3 300	3 300
			Electrical rewire and existing	3 000	3 000
			New water tanks	2 700	2 700
			Demolish 200 sq.m. of this building		3 000
			Convert remainder to OPD and 5 bed ward		17 000
04	Doctor house	120	Reconstruct new house on existing concrete slab	62 400	-
			Demolish remains	-	1 500
05	Nurse accom.	100	Check roof	3 200	3 200
			New ceiling linings	3 300	3 300
			New roof sheeting (temporarily replaced)	4 000	4 000
				129 800	62 500

Name of Facility : SILI SUBCENTRE  
 District : SATUPAITEA  
 Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	2 500	2 500
02	Site Services	-	Refer definition	500	500
03	OPD	48	New roof sheeting	1 900	1 900
			Check roof structure	1 500	1 500
			Renovate	1 900	1 900
			New water tanks	2 700	2 700
04	Nurse Accom.	90	New roof sheeting and	6 400	6 400
			New ceiling and framing	5 800	5 800
			New vinyl tile flooring	2 800	2 800
			Repair	3 600	3 600
			New electrics	2 100	2 100
			Louvre blades x 50	400	400
			New water tanks	2 700	2 700
				<u>34 800</u>	<u>34 800</u>

Name of Facility : TAGA SUB CENTRE

District : PALAULI/SISIFO

Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	3 300	3 000
02	Site services	-	Refer definition	500	500
03	OPD	84	Check roof	2 600	2 600
			New roof sheeting	3 400	3 400
			New electrics	2 000	2 000
			New timber framed casement windows - 35 ashes	7 700	7 700
			New double doors	300	300
			New ceiling lining	2 700	2 700
			Reconstruct R.T. aerial	1 200	1 200
			New solar panels	1 500	1 500
			New watertanks	2 700	2 700
		70	New internal linings	2 300	2 300
			Convert to accommodate 2 bed ward		3 400
04	Ward 1	70	Check roof	2 200	-
			New roof for community use	2 800	-
			Paint internally	400	-
05	Nurse accom.	120	Check roof	3 800	3 800
		50	New roof sheeting	2 000	2 000
			New water tanks	2 700	2 700
06	Ward 2	70	Demolish remains	500	500
				<u>44 600</u>	<u>41 300</u>

Name of Facility : FOALALO HEALTH CENTRE  
 District : SALEGA  
 Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$		
				REHAB.	RECOMMEND	
01	Locational loading	-	Refer definition	11 500	4 600	
02	Site services	-	Refer definition	1 500	1 500	
03	OPD/ Wards	390	Check roof	12 400	12 400	
		100	New roof sheeting	4 000	4 000	
		150	New ceiling	4 900	4 900	
			New elect. to 100 sq.m.	2 400	2 400	
			New water tanks	2 700	2 700	
			Repair	6 000	6 000	
04	Ward	70	New construction (Old ward completely destroyed)	36 400	-	
			Demolish remains	-	900	
05	Doctor house	150	Completely destroyed remaining structure structurally unsound	-	-	
			100	Re-site and construct new house	52 000	-
				Demolish remains	-	800
06	Nurse Accom.	100	Check roof	3 200	3 200	
07	Generator shed	20	Completely reconstruct new shed.	1 500	1 500	

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Appendix 31

Name of Facility : FOALALO HEALTH CENTRE

District : SALEGA

Island : SAVAII

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
08	Ward amenities	10	Construct new amenities	8 000	8 000
			New water tanks (Assume (assume septic system acceptable)	2 700	2 700
09	Nurse Supervisor House	90 150 90	Check roof	2 800	2 800
			Paint	900	900
			New ceiling linings	3 000	3 000
				155 900	62 200

Noted: Save AOA tree.

Name of Facility : FALEALUPO SUB CENTRE

District : SATAUA

Island : SAVAII

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	5 700	4 000
02	Site services	-	Refer definition	500	500
03	OPD/Ward	220	Check roof	7 000	7 000
		100	New roof sheeting part replaced by community)	4 000	4 000
		220	New ceiling linings	7 200	7 200
		60	New vinyl floor to ward	1 900	1 900
		220	New electrics	5 200	5 200
			New water tanks	2 700	2 700
			New double doors	600	600
	Repair	8 800	8 800		
			Convert 60 sq.m. to nurse accommodation	-	10 200
04	Generator shed.	9	New construction	1 800	1 800
			Demolish remains	200	200
05	Nurse accom.	60	Demolish remains		
			New construction on existing slab	31 200	-
				<hr/>	<hr/>
				77 800	55 100

Name of Facility : SATAUA DISTRICT HOSPITAL  
 District : SATAUA  
 Island : SAVAIH

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$		
				REHAB.	RECOMMEND	
01	Locational loading	-	Refer definition	23 700	23 700	
02	Site services	-	Refer definition	3 000	3 000	
03	OPD	400	Check roof	12 800	12 800	
			New roof sheeting over existing ply sarking	16 000	16 000	
		600	New ceiling linings (on underside of roof structure and false ceilings)	19 000	19 000	
			New electrics	8 000	8 000	
		400	New vinyl flooring	12 800	12 800	
		500	Paint	3 000	3 000	
			Repair	16 000	16 000	
		140	Convert part to 10 bed ward	-	-	23 800
			Repair concrete water tanks	1 000	1 000	1 000
		04	Ward	400	Check roof structure (all roofing, sarking and battens gone)	1 000
400	New roof sarking and sheeting			15 200	-	
100	Reconstruct some external walls including windows, screens			14 100	-	
120	Reconstruct internal walls including windows and doors			11 000	-	
				11 000	-	



Annex 3

Appendix 33

Name of Facility : SATAUA DISTRICT HOSPITAL

District : SATAUA

Island : SAVAII

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
05	Nurse accom.	600	New ceiling framing and linings	19 800	-
			New electrics	10 000	-
		400	New vinyl flooring	12 800	-
		500	Paint	4 500	-
			Repair	16 000	-
			Clean and protect truss brackets	4 000	-
			Demolish	-	4 000
		80	Check remaining roof structure and repair	2 500	2 500
			New roof sheeting and sarking including battens	3 200	3 200
		100	Check and repair external walls, windows, screens	14 100	14 100
		80	New ceiling lining and framing	2 600	2 600
100	Paint	600	600		
	New electrics	1 600	1 600		
80	New vinyl flooring	2 500	2 500		
	Repair	3 200	3 200		

Name of Facility : SATAUA DISTRICT HOSPITAL  
 District : SATAUA  
 Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$		
				REHAB.	RECOMMEND	
06	Nurse supervisor house	80	Check roof			
			Remove bitumen roof shingles, fascias and gutters	2 500	2 500	
			New roof sheeting	1 600	1 600	
			New ceilings	3 200	3 200	
			Repair	2 600	2 600	
07	Public health	80	Check roof	2 600	2 600	
			Remove bitumen roof shingles, fascias and gutters	1 600	1 600	
			New roof sheeting	3 200	3 200	
			New ceilings	2 600	2 600	
			New electrics	1 600	1 600	
			New vinyl flooring	2 600	2 600	
			Repair	3 200	3 200	
08	Doctor house	80	Check roof structure (all roofing sarking and battens gone)	2 500	2 500	
			30	New external cladding windors and screens	4 200	4 200
		80		New roofing, sarking and framing	5 700	5 700
				New ceiling linings and framings	2 600	2 600
		60		New internal wall linings and some framing	5 500	5 500
		400		Paint	2 400	2 400
			New electrics	1 600	1 600	
80	New vinyl flooring Repair	2 500	2 500			
		3 200	3 200			

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Appendix 33

Name of Facility : SATAUA DISTRICT HOSPITAL

District : SATAUA

Island : SAVAII

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
09	Amenities	36	Check roof Remove shingles, fascias and gutters New roofing New doors New ceiling linings Repair	1 100 700 1 400 300 1 200 1 400	1 100 700 1 400 300 1 200 1 400
				320 700	233 700

Name of Facility : AOPO SUB CENTRE

District : SAFOTU

Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	2 00	1 600
02	Site Services	-	Refer definition	300	300
03	OPD	150	Check roof	4 800	4 800
		80	Remove roof temporarily fixed and replace	3 200	3 200
		35	Convert part to 2 bed ward (walls, louvres, vinyl floor) & nurse accommodation	-	5 900
		40	Repair and reline internal walls	1 300	1 300
			Repair	1 600	1 600
			New windows, 4x8 blade louvres	800	800
			New door	300	300
			Paint	300	300
			New water tanks	2 700	2 700
04	Nurse Accom.	48	Check roof	1 500	-
48			New roof sheeting	1 900	
			New louvres and blades, 15 x 8 blade	3 300	
			Repair	1 900	
			Paint	300	
			New water tank	1 500	
				<hr/>	<hr/>
				27 700	22 800

Name of Facility : SAFOTO SUB CENTRE

District : SAFOTU

Island : SAVAII

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	8 700	8 700
02	Site Services	-	Refer definition	1 500	1 500
03	OPD	180	Check roof	5 700	5 700
		100	New roof sheeting	4 000	4 000
			New louvre windows 2x10 blade	400	400
		60	New ceiling linings	2 000	2 000
			Repair	2 400	2 400
		100	Paint	600	600
			New water tanks	2 700	2 700
04	Wards	250	Check roof	8 000	2 000
		130	New roof sheeting	5 200	2 000
			New timber framed windows, 10 sashes	2 200	2 200
		150	New ceilings	4 900	3 000
			Demolish ward and convert remaining to be self sufficient, 5 bed ward, nurse accommodation	-	18 000

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Appendix 35

Name of Facility : SAFOTO SUB CENTRE  
 District : SAFOTU  
 Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
05	Doctor	100	New roof sheeting and framing	4 000	-
			New ceilings and linings	3 300	-
			New electrics	2 000	-
			Repair	4 000	-
			New water tank	2 700	2 700
			Paint	600	300
			Demolish	-	800
06	Nurse	100	Demolish remains		800
			Reconstruct.	5 200	
07	Garage	20	Demolish remains	300	
08	Generator shed	16	Demolish remains		
			reconstruct	1 500	1 500
				<hr/>	<hr/>
				118 400	57 100

Name of Facility : FAGAMALO HEALTH CENTRE  
 District : FAGAMALO  
 Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	10 200	2 300
02	Site services	-	Refer definition	1 000	1 000
03	OPD	145	Check roof	4 600	4 600
		80	New roof sheeting	3 200	3 200
		50	New ceiling linings	1 600	1 600
			Repair New water tanks	2 000 2 700	2 000 2 700
04	Ward 1	105	New total roof structure and sheeting	7 500	-
			New ceiling lining	3 500	-
			New vinyl flooring	3 300	-
			Repair	4 200	-
		150	Paint	900	-
			New timber framed windows 60 sashes	13 000	-
05	Ward 2	105	New doors, 2 off.	600	-
			Demolish remains	-	2 500
		15	Check roof	3 300	3 300
			New roof sheeting to amenities block	600	600
			New internal linings (wall and ceiling)	500	500
	New windows - 4 sashes	800	800		
	Convert part for nurse accom.	-	5 100		

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Appendix 36

Name of Facility : FAGAMALO HEALTH CENTRE

District : FAGAMALO

Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
06	Doctor house	130	New roof framing and sheeting	9 200	-
		300	New internal linings (wall and ceiling)	9 900	-
			New timber windows 24 sashes	5 200	-
		130	New vinyl flooring	4 100	-
			New fittings in kitchen and bathroom	5 000	-
			Repair	5 200	-
07	Nurse accom.	300	Paint	1 800	-
			New water tanks	2 700	-
			Demolish	-	1 000
07		50	Demolish remains	500	500
		60	New construction (including amenities (on hospital side)	31 000	-
08	Dentist house	80	Demolish (has not been livable for 10 years)	400	400
				<hr/> 138 600	<hr/> 32 100



Name of Facility : SAMALEULU SUB CENTRE  
 District : FAGAMALO  
 Island : SAVAII

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading	-	Refer definition	2 000	2 000
02	Site services	-	Refer definition	200	200
03	OPD	120	Check roof	3 800	3 800
			New roof sheeting	4 800	4 800
			New ceiling lining	3 900	3 900
			New solar panels	1 500	1 500
			Repair	4 800	4 800
			New water tanks	2 700	2 700
04	Nurse accom. (Fale)	70	Check roof (rectification work been carried out)	2 200	2 200
		40	New internal walls	1 300	1 300
05	Fale	150	No work	-	-
				<hr/>	<hr/>
				27 200	27 200

Name of Facility : PATAMEA SUB CENTRE  
 District : FAGAMALO  
 Island : SAVAI

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational loading		Refer definition	3 000	3 000
02	Site services		Refer definition	200	200
03	OPD	84	Check roof structure New roof sheeting and framing	2 600 3 300	2 600 3 300
			New ceilings and framing	2 800	2 800
		200	New wall linings	7 200	7 200
			New electrics	3 000	3 000
			Repair	4 400	4 400
			New water tanks	2 700	2 700
04	Nurse	48	No work	-	-
05	Fale	112	Check roof	3 500	3 500
		70	New roof sheeting	2 800	2 800
			New ceiling lining	2 300	2 300
			Repair	2 800	2 800
				<hr/> 40 600	<hr/> 40 600

Name of Facility : DEPARTMENT OF HEALTH HEADQUARTERS

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----	Refer definition	----	----
02	Site Services	----	Refer definition	----	----
03	Health Planning	120	- Check roof	3 800	3 800
		120	- Replace roof ridge vent	4 800	4 800
			- Repair	4 800	4 800
		60	- New ceiling	2 000	2 000
		100	- Reconstruct light framed walkway	20 000	20 000
			- Paint internally	800	800
			- Check electrics	2 400	2 400
04	Old Eye Clinic (Stores)	50	Check roof	1 600	1 600
		50	New roof sheeting	2 000	2 000
05	Library	450	Check roof	14 400	14 400
		50	- New ceiling in Conference Room	1 700	1 700
			- New internal doors (2 No.)	600	600
		12	New entry ceiling	400	400
06	Stores Division	50	Reconstruct new light framed walkway	10 000	10 000
		120	New roof sheeting	4 800	4 800
		75	New ceiling repair	2 500	2 500

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Appendix 39

Name of Facility : DEPARTMENT OF HEALTH HEADQUARTERS

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
07	Main building	2 000	Check roof	64 000	64 000
		2 000	New roof sheeting	80 000	80 000
		1 100	Repair	44 000	44 000
		2 500	- Paint internally	15 000	15 000
			- External works (fence, security and associated works)	10 000	10 000
		1 100	- Repair/replace boarded ceiling	37 000	37 000
			- Check electrics	22 000	22 000
			SUB-TOTAL 4	348 600	348 600

Name of Facility : NURSING ADMINISTRATION

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
01	Locational Loading	----		----	----
02	Site Services	----		----	----
03	Nurses Home (Female)	450	- Check roof	14 400	14 400
			- Remove roof vents and make good	6 000	6 000
		80	- Replace timber windows blown out	2 500	2 500
			- Rebuild supper house and demolish remains (fall)	20 000	20 000
04	Nurses Home (Male)	80	- Repair	18 000	18 000
			Demolish remains of first floor	2 500	2 500
		80	- Reconstruct first floor including floor boards and finish	41 500	41 500
			- Repair	3 200	3 200
05	Old Amenities	250	Repaint ground floor	1 500	1 500
		70	Check roof	2 300	2 300
		70	- New roof sheeting	2 800	2 800
06	Wash	---	- Repair	2 800	2 800
			No work		

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Name of Facility : NURSING ADMINISTRATION

District : APIA

Island : UPOLU

ITEM	BUILDING/ ITEM	AREA M <sup>2</sup>	WORK DESCRIPTION	OPINION OF COST - US\$	
				REHAB.	RECOMMEND
07	Nurse School	350	Check roof	11 200	11 200
		50	- New roof sheeting	2 000	2 000
			- Replace main steps	8 000	8 000
			- Replace louvre blades	3 000	3 000
		180	Replace ceilings (top floor teaching)	6 000	6 000
		180	New vinyl flooring (top floor)	5 700	5 700
		100	- New ceilings (general)	3 300	3 300
			- Check electrics	7 000	7 000
		20	Corridor ceilings	700	700
		20	New vinyl flooring in offices	700	700
		300	New vinyl flooring (mid-floor)	9 600	9 600
		300	Repair	12 000	12 000
			SUB-TOTAL 5	186 700	186 700









