Town	***No. & Facility:***	***Year of Construction***	***Financed by:***
Maliana	11-TV Station Reservoir 2		

Existing Condition:

Facility: Service Reservoir
Structure: Reinforced concrete
Shape: Rectangular
Dimension: 12.0m x 12.0m x 3.0m height
Storage Capacity: 400m^3
Function: Storage and disinfection
Source of Water: Beremau stream
Supply to: TV Station Reservoir 1
Elevation (amsl):
Accessories:

Photograph:

(Date:)

Evaluation:

a) In operation
b) Requires minor repair

Rehabilitation Plan:

1) Basic Consideration

2) Civil Work:

Construction of security fence.
Installation of water level guauge.
Installation of ladders

3) Piping work:

Installation of flow meter and controller with rearrangement of pipes.

4) Mechanical work: none

5) Electrical work: none

6) Miscellaneous: none

Estimated cost:	***Construction schedule:***	***Priority:***
US$6,629		B-2

Town	***No. & Facility:***	***Year of Construction***	***Financed by:***
Maliana	12-Lesubotang Reservoir		

Existing Condition:

Facility: Service Reservoir
Structure: reinforced concrete
Shape: rectangular
Dimension: 5.5m x 6.3m x 2.1m height
Storage Capacity: 50m^3
Function: Supplies the Santa Cruz Reservoir from Dabuci springs.

Source of Water: Beapelu/Dabuci/Beamos spring
Elevation (amsl):
Accessories:

Photograph:

(Date:)

Evaluation:

a) In operation
b) Tank is not covered with floating foreign matters.
c) Lacks routine maintenance.

Rehabilitation Plan:

1) Basic Consideration

2) Civil Work:

Installation of appropriate cover/roof and construction of security fence.
Installation of water level guauge.
Mortar lining on the concrete walls

3) Piping work:

Installation of 75mm flow meter and controller.

4) Mechanical work: none

5) Electrical work: none

6) Miscellaneous:

Installation of chlorine dosing devices.

Estimated cost:	***Construction schedule:***	***Priority:***
US$10,040		B-2

Town	***No. & Facility:***	***Year of Construction***	***Financed by:***
Maliana	13-Ritabou Reservoir		

Existing Condition:

Facility: Service Reservoir
Structure: Reinforced concrete
Shape: Rectangular
Dimension: 3.8m x 2.3m x 1.8m separated two rooms
Storage capacity: $3m^3$
Function: storage
Source of Water: Colegio spring
Elevation (amsl):
Accessories:

Photograph:

(Date:)

Evaluation:

a) In operation
b) Lacks routine maintenance

Rehabilitation Plan:

1) Basic Consideration

This community based system will be connected to the town's water supply.

2) Civil Work:

Construction of security fence

3) Piping work:

Installation of distribution main 50mm x1km to connected with the town's water supply.

4) Mechanical work: none

5) Electrical work: none

6) Miscellaneous: none

Estimated cost:	***Construction schedule:***	***Priority:***
US$12,200		B-2

Town & No:.	***Facility:***	***Year of Construction***	***Financed by:***
Maliana	14-Deep Well No. 1and No. 2		

Existing Condition:

Structure:
Shape:
Dimension:
Capacity: 4- 5L/sec for each
Function:
Drilled depth:
Ground level:
Accessories:

Each deep well equipped with;
Capacity: 4-5L/sec (0.24-0.3m3/min) - one set
Type: submersible pump

Photograph:

Deep well No.1

Deep well No.2

(Date:)

Evaluation:

Existing pump installed in No.1 deep well will function after well rehabilitation according to the villagers.

Rehabilitation Plan:

1) Basic Calculation

2) Civil Work: none

3) Piping work: 3 inch GSP x 1.0km pipelaying work to supply to Deep Well No.2 area.

4) Mechanical work:

Capacity: 4-5L/sec (0.24-0.3m3/min) - one set
Type: submersible pump

5) Electrical work:

Watt-hour Meter Box x1
Main Power Switch Panel x1
Generator Set x1
Fuel Tank x1
Pump Control Board x1

6) Miscellaneous: chlorine dosage equipment

Estimated cost:	***Construction schedule:***	***Priority:***
US$ 97,000		B-1

Town	***No. & Facility:***	***Year of Construction***	***Financed by:***
Maliana	15-Distribution Main Installatio5		

Existing Condition:

Photograph:

(Date:)

Evaluation:

The additional water supplied into the Santa Cruz Reservoir with required additional distribution main to supply extension of the service area (Ritabou, western village).

Rehabilitation Plan:

1) Basic Consideration

2) Civil Work: none

3) Piping work:

Diameter & length: 4 inch GSP x 1500m

Accessories: gate valves, air valves, blow-offs, flow controller

4) Mechanical work: none

5) Electrical work: none

6) Miscellaneous: none

Estimated cost:	***Construction schedule:***	***Priority:***
US$39,831		B-1

Table 6.1 PROJECT COSTS

(*USD)

Description	Dili	Atauro	Manatuto	Baucau	Los Palos	Viqueque	Same	Ainaro	Aileu	Maubisse	Gleno	Ermera	Liquica	Suai	Maliana	Total
Civil Work	4,037,870	41,498	45,000	42,875	184,390	265,479	62,779	44,670	79,329	28,219	89,970	141,393	331,040	377,411	565,836	6,337,759
Piping Work	5,146,068	100,578	30,643	42,644	456,660	209,986	82,924	217,290	56,993	122,458	118,720	386,545	1,531,620	148,650	115,134	8,766,913
Mechanical Work	152,039	-	-	186,194	131,771	-	-	-	-	-	-	-	-	207,839	271,319	949,162
Electrical Work	193,125	-	-	183,750	141,250	-	-	-	66,250	-	-	-	-	261,250	181,250	1,026,875
Public Taps	123,000	5,000	25,000	35,000	20,000	15,000	8,000	10,000	10,000	13,000	30,000	13,000	30,000	10,000	-	347,000
Service Connections	2,162,000	27,000	96,000	101,000	128,000	119,000	104,000	60,000	75,000	24,000	81,000	36,000	157,000	132,000	165,000	3,467,000
Miscellaneouse	7,500	7,500	-	12,500	-	7,500	7,500	3,750	-	11,250	3,750	3,750	13,750	13,750	13,750	106,250
Total Construction Cost	11,821,602	181,576	196,643	603,963	1,062,071	616,965	265,203	335,710	287,572	198,927	323,440	580,688	2,063,410	1,150,900	1,312,289	21,000,959
Engineering Cost	1,182,160	18,158	19,664	60,396	106,207	61,697	26,520	33,571	28,757	19,893	32,344	58,069	206,341	115,090	131,229	2,100,096
Sub-Total	13,003,762	199,734	216,307	664,359	1,168,278	678,662	291,723	369,281	316,329	218,820	355,784	638,757	2,269,751	1,265,990	1,443,518	23,101,055
Contingencies	1,950,564	29,960	32,446	99,654	175,242	101,799	43,758	55,392	47,449	32,823	53,368	95,814	340,463	189,899	216,528	3,465,158
Total	14,954,327	229,694	248,753	764,013	1,343,520	780,461	335,482	424,673	363,779	251,643	409,152	734,570	2,610,214	1,455,889	1,660,046	26,566,213

Table 6.2 ANNUAL OPERATION & MAINTENANCE COSTS

(*USD)

Description	Dili	Atauro	Manatuto	Baucau	Los Palos	Viqueque	Same	Ainaro	Aileu	Maubisse	Gleno	Ermera	Liquica	Suai	Maliana	Total
Mechanical																
WTP																
Chlorine(2mg/L)	2,242	296	1,584	1,697	1,916	1,780	1,560	1,029	1,166	358	1,414	429	2,257	1,914	2,393	22,036
Alum(25mg/L)	8,967														6,504	15,471
Electricity(KWH)	74,460										5,387		14,007			93,855
																0
Pumping Station																0
Electricity(KWH)	145,854		32,324	72,191	71,114				21,550				3,232	19,933	26,937	393,136
Sub-Total	231,523	296	33,908	73,888	73,030	1,780	1,560	1,029	22,716	358	6,801	429	19,497	21,847	35,835	524,497
Institutional																
Personnel	24,040	2,886	16,099	23,556	22,230	16,099	16,099	13,259	16,099	5,726	18,295	6,821	16,099	16,099	17,659	231,066
Vehicle running	12,000	0	6,000	9,000	9,000	6,000	6,000	4,191	6,000	1,809	6,555	2,445	6,000	6,000	6,000	87,000
Repair	118,216	1,816	1,966	6,040	10,621	6,170	2,652	3,357	2,876	1,989	3,234	5,807	20,634	11,509	13,123	210,010
Others	109,047	1,370	3,136	3,455	3,880	3,720	3,136	2,339	2,232	1,010	3,136	1,169	4,730	4,411	4,624	151,395
Sub-Total	263,303	6,072	27,201	42,051	45,731	31,989	27,887	23,146	27,207	10,534	31,220	16,242	47,463	38,019	41,406	679,471
Total	494,826	6,368	61,110	115,939	118,761	33,769	29,447	24,175	49,922	10,892	38,022	16,671	66,960	59,866	77,241	1,203,968

Note; Electricity =0.123 USD/kwh

Table 5.1 REHABILITATION PLAN FOR DILI

Facility	Restoration	Improvement	Cost	Priority
1. River Intake				
a.) Bemos: repair of concrete weir & protect inlets	X		16,532	A - 2
b.) Benemauk: install perforated pipes		X	2,595	A - 2
2. Deep Well				
a.) Kuluhun A: replace pump, generator set, panel, control	X		12,000	A - 1
board, pipe works				
b.) Comoro A: replace pump, generator set, panel, control	X		12,000	A - 1
board, pipe works				
c.) Comoro E: replace pump, generator set, panel, control	X		37,000	A - 1
board, pipe works				
2. Transmission Main				
a.) Bemos existing: replace and install air release valves		X	2,837	A - 1
b.) Bemos raw water main: install 300mm dia main to WTP		X	2,369,100	A - 1
c.) Comoro E new main: install 200mm dia main x 1035m		X	350,000	A - 1
to Comoro Res.				
d.) Comoro B new main: install 200mm dia main x 100m		X	-	A - 1
to Aspal Goreng Res.				
e.) Comoro A new main: install 250mm dia main x 300m		X	-	A - 1
to Dili WTP				
f.) Kuluhun C new main: install 150mm dia main x 500m		X	-	A - 1
to Taibesi Res.				
g.) Kuluhun B new main: install 200mm dia main x 1,290m		X	-	A - 1
to Becusi Res.				
h.) Bidau 3 new main: install 150mm dia main x 500m		X	-	A - 1
to Bidau 2 Res.				
3. WTP				
a.) Bemos: replace flow meters, backwash pumps and blower	X		120,027	A - 2
b.) Benemauk: replace flow meters, chemical pumps, mixers,	X		101,102	A - 2
and generator set				
c.) Lahane: replace flow meters	X		13,404	A - 2
d.) Proposed Dili WTP: construct new treatment plant		X	2,769,100	A - 1
with 6,000m3/day production				
4. Service Reservoirs				
a.) Bemos 1: replace flow meters	X		8,936	A - 2
b.) Lahane: replace washouts		X	744	A - 2
c.) Benemauk 1: install flow meter and controller		X	3,404	A - 2
d.) Benemauk 2: install flow meters and controllers		X	4,642	A - 2
e.) Taibesi: install level gauge, ladder, ventilators, drain pipes		X	2,780	A - 2
f.) Becora: install level gauge, flow meter and controller		X	7,314	A - 2
g.) Bedoisi: install flow meter, constroller, security fence		X	7,379	A - 2
h.) Bidaumasau: install flow meter, constroller, security fence		X	7,222	A - 2
i.) Hera A: repair door, and construct access road		X	7,100	A - 2
install chlorine dosage equipment				
j.) Proposed Central: construct new reservoir		X	-	A - 2
Vol = 3,000m3 including appurtenances & fence				
k.) Proposed Aspal Goreng: construct new reservoir		X	190,000	A - 2
Vol = 1,000m3 including appurtenances & fence				
l.) Proposed Becusi: construct new reservoir		X	151,800	A - 2
Vol = 600m3 including appurtenances & fence				

Facility	Restoration	Improvement	Cost	Priority
m.) Proposed Bidaumasau 2: construct new reservoir		X	76,400	A - 2
Vol = 200m3 including appurtenances & fence				
5. Distribution Mains				
a.) Aspal Goreng new main: install 200mm x 120m		X	70,200	A - 1
to the existing main				
b.) Central Res. new main: install 250mm x 40m and		X	-	A - 1
300mm x 200m to the existing main				
c.) Taibesi Res. new main: install 150mm x 50m		X	-	A - 1
to the existing main				
d.) Becusi Res. new main: install 200mm x 220m		X	-	A - 1
to the existing main				
6. Pipe Reticulation				
a.) New pipeline: install 100mm x 7,070m,		X	1,267,500	A - 1
150mm x 4,600m, 200mm x 1,550m,				
250mm x 1,300m				
b.) Replacement of old AC pipes: install 100mm x 1,100m	X		-	A - 1
replacing the existing 80mm. 100mm x 2,600m,				
install 100mm x 2,600m, 150mm x 2,500m, and				
200mm x 7,000m				
7. Service Connections: repair of existing connections	X		2,161,000	A - 1
including installation of water meter				
5. Public Taps: repair and install new public taps	X		123,000	A - 1
PRIORITY 1 SUB-TOTAL			9,173,737	A - 1
PRIORITY 2 SUB-TOTAL			721,381	A - 2
T O T A L			9,895,118	

Note:

1) Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, administrative cost.

2) Cost for item 2-d), e), f), g), and h) included in cost for item 2-c).

3) Cost for item 4-j) included in cost for item 3-d).

4) Cost for items 5-b), c) and d) included in cost for item 5-a).

5) Cost for item 6-a) includes cost for item 6-b)

Table 5.2 REHABILITATION PLAN FOR ATAURO

Facility	Restoration	Improvement	Cost	Priority
1. Spring Intake		X	6,201	B - 2
a.) Tulai: install cover & fence				
2. Transmission Main		X	73,010	B - 1
a.) install 75mm x 4 km pipeline including valves and				
pipe crossings				
3. Service Reservoirs				
a.) Haronglerang: install chlorinator, gauge, flow meter,		X	8,524	B - 2
valves & fence				
b.) Tolelona 1: install pipe outlet, gauge, flow meter		X	4,581	B - 2
valves & fence				
c.) Tolelona 2: install pipe outlet, gauge, flow meter,		X	4,758	B - 2
valves & fence				
d.) Cementerio: install flow meter & fence		X	2,670	B - 2
e.) Lebadoe: install chlorinator, gauge, flow meter,		X	5,847	B - 2
valves & fence				
f.) Proposed Lebadoe: construct new reservoir		X	14,069	B - 2
Vol = 30 m^3 including appurtenances & fence				
4. Service Connections: repair of existing connections	X		27,000	B - 1
including installation of water meter				
5. Public Taps: repair and install new public taps	X		5,000	B - 1
PRIORITY 1 SUB-TOTAL			105,010	B - 1
PRIORITY 2 SUB-TOTAL			46,650	B - 2
T O T A L			151,660	

Note: Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, and administrative cost.

Table 5.3 REHABILITATION PLAN FOR MANATUTO

Facility	Restoration	Improvement	Cost	Priority
1. Service Reservoirs				
a.) Saututum: repair of staff house	X		3,000	C - 2
b.) Proposed Saututum 2: construct new reservoir		X	41,014	C - 2
Vol = 330 m3 including pipes 200mm, flow				
meter, valves and other appurtenances				
2. Distribution Main: install 50mm x 1.5km pipe including		X	16,500	C - 1
valves, blow-off and air release				
3. Service Connections: repair of existing connections	X		96,000	C - 1
including installation of water meter				
4. Public Taps: repair public taps	X		25,000	C - 1
PRIORITY 1 SUB-TOTAL			137,500	C - 1
PRIORITY 2 SUB-TOTAL			44,014	C - 2
T O T A L			181,514	

Note: Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, and administrative cost.

Table 5.4 REHABILITATION PLAN FOR BAUCAU

Facility	Restoration	Improvement	Cost	Priority
1. Spring Intake				
a.) Wailia: improvement of the spring intake		X	143,091	C - 2
2. Pumping Stations				
a.) No. 1 at Wailia: install new pumping facilities and generator		X	-	C - 2
set including appurtenances & chlorinator				
b.) No. 2 at Wainiki: install new pumps, generator set and		X	79,400	C - 2
appurtenances, repair delivery main and construct fence				
c.) No. 3 at Lamegua: install new pumps, generator set,	X		89,233	C - 1
appurtenances, valves, flow meter and gauge. Repair				
pumping station, reconstruct pipeline and security fence				
3. Transmission Main: install 75mm x 1.0km pipeline including		X	24,622	C - 1
valves, air release and flow meter				
4. Service Reservoirs:				
a.) Main at Adarai: install flow meter, control valves and		X	10,822	C - 2
b.) Samadiga: install flow meter, valves, gauge and fence		X	5,251	C - 2
C.) Trilolo: install flow meter, valves, gauge and fence		X	21,951	C - 2
c.) Proposed Reservoir: construct new reservoir, Vol = 100m^3		X	-	C - 2
5. Service Connections: repair of existing connections	X		101,000	C - 1
including installation of water meter				
6. Public Taps: repair public taps	X		35,000	C - 1
PRIORITY 1 SUB-TOTAL			249,855	C - 1
PRIORITY 2 SUB-TOTAL			260,515	C - 2
T O T A L			510,370	

Table 5.5 REHABILITATION PLAN FOR LOS PALOS

Facility	Restoration	Improvement	Cost	Priority
1. Pumping Station				
a.) No. 1 at Kauto: install pumps, generator set, appurtenances,	X		74,912	A - 2
flow meter and control valves				
b.) No. 2 at Papapa WTP site: install pumps, generator set,	X		158,049	A - 1
appurtenances, flow meter and control valves. Repair of				
the pumping station and construction of security fence.				
2. Water Treatment Plant (WTP): construction of additional SSF		X	140,972	A - 2
Basin: 9m x 16m, Capacity = 7.5L/s				
Install new clear water storage, Vol = 450m3 including				
accessories, pipe interconnection and fence				
3. Service Reservoir				
a.) Elevated at Papapa: install flow meter, control valves		X	7,314	A - 2
and water level gauge				
4. Distribution Main: install 250mm x 500m + 200mm x 4.5km	X		350,010	A - 1
including valves, air release and blow off				
5. Service Connections: repair of existing connections	X		128,000	A - 1
6. Public Taps: repair and install public taps	X		20,000	A - 1
PRIORITY 1 SUB-TOTAL			656,059	A - 1
PRIORITY 2 SUB-TOTAL			223,198	A - 2
T O T A L			879,257	

Note: Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, and administrative cost.

Table 5.6 REHABILITATION PLAN FOR VIQUEQUE

Facility	Restoration	Improvement	Cost	Priority
1. Spring Intake				
a.) Builua (Loihunu): install flow meter and control valves		X	6,622	B - 2
and construct fence				
2. Transmission Main: pipe realignment 150mm x 2 km		X	252,930	B - 1
3. Break pressure Tank: install fence		X	1,800	B - 2
4. Service Reservoir				
a.) Existing: repair of the concrete wall; install flow meter,	X		18,251	B - 2
controls valves, chlorinator and construct fence				
b.) Proposed: construct new reservoir, Vol. = 250m3;		X	45,253	B - 2
realign pipe 100mm x 500m and install chlorinator & fence				
5. Distribution Main: install new pipeline 100mm x 1.0 km and		X	61,516	B - 1
75mm x 2.0km; install valves, air release and blow-off				
6. Service Connections: repair of existing connections	X		119,000	B - 1
7. Public Taps: repair and install public taps	X		15,000	B - 1
PRIORITY 1 SUB-TOTAL			448,446	B - 1
PRIORITY 2 SUB-TOTAL			71,926	B - 2
T O T A L			520,372	

Note: Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, and administrative cost.

Table 5.7 REHABILITATION PLAN FOR SAME

Facility	Restoration	Improvement	Cost	Priority
1. Spring Intake				
a.) Darelau: install flow meter, control valve and cover		X	2,834	B - 2
2. Transmission M ain:				
a.) Darelau: realign pipe GSP 75mm x 120m; install valves		X	5,724	B - 1
blow-off and air release; construct pipe bridges at 2 points				
3. Service Reservoir				
a.) Posto: install pipes 75mm x 50m, flow meter and valves	X		8,102	B - 1
install fence				
b.) Proposed Hularua 2: install additional reservoir, Vol = 160m^3		X	26,171	B - 2
realign pipes; install flow meter, valves and fence				
c.) Proposed Merbati 2: install additional reservoir, Vol = 80m^3		X	27,300	B - 2
realign pipes; install flow meter, valves and fence				
4. Distribution Main: install pipe 32mm x 3.0km and 25mm x 3.0km		X	52,428	B - 1
install gate valves 150mm x 2 and 75mm x 10, including				
air release and blow-off				
6. Service Connections: repair of existing connections	X		104,000	B - 1
7. Public Taps: repair and install public taps	X		8,000	B - 1
PRIORITY 1 SUB-TOTAL			178,254	B - 1
PRIORITY 2 SUB-TOTAL			56,305	B - 2
T O T A L			234,559	

Note: Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, and administrative cost.

Table 5.8 REHABILITATION PLAN FOR AINARO

Facility	Restoration	Improvement	Cost	Priority
1. Transmission Main				
a.) Raw Water Channel: install new concrete channel 35cm x	X		236	A - 2
1.0m x 5.0cm at 50m span				
b.) Nugupo WTP: install overflow weir, 3.0m x 30cm;		X	7,814	A - 1
install butterfly valves 150mm and control valves				
2. Service Reservoir				
a.) Kamilaran 1: realign pipe 150mm and install flow meter,		X	31,842	A - 2
valves and chlorinator; construct fence				
b.) Kamilaran 2: repair staff house; install flow meter, control		X	9,622	A - 2
valves and fence				
3. Distribution Main: install pipes, gate valves (8 sets)		X	163,054	A - 1
and butterfly valves (1 set)				
6. Service Connections: repair of existing connections	X		60,000	A - 1
7. Public Taps: repair and install public taps	X		10,000	A - 1
PRIORITY 1 SUB-TOTAL			240,868	A - 1
PRIORITY 2 SUB-TOTAL			41,700	A - 2
T O T A L			282,568	

Note: Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, and administrative cost.

Table 5.9 REHABILITATION PLAN FOR AILEU

Facility	Restoration	Improvement	Cost	Priority
1. Intake				
a.) Mantane River Infiltration Gallery: reconstruct new gallery	X		82,710	B - 1
including pump pit and pump house; install new				
generator set				
b.) Sloi Kraik: install new collection pipe and collection chamber		X	4,917	B - 2
c.) Hularema: install new collection pipe and collection chamber		X	4,848	B - 2
2. Service Reservoir				
a.) Gov't. Housing: install flow meter, valves and level gauge		X	6,122	B - 2
b.) Marele No.1: install flow meter, valves and level gauge		X	3,451	B - 2
c.) Proposed: construct new reservoir, Vol = 85m3 including		X	36,461	B - 2
appurtenances, pipes and fence				
d.) Marele No.2: install flow meter, valves and level gauge		X	3,991	B - 2
e.) Hularema: leak repair & install flow meter, valves		X	3,057	B - 2
and level gauge				
3. Distribution Main: install pipe, 50mm x 2km		X	16,500	B - 1
4. Service Connections: repair of existing connections	X		75,000	B - 1
5. Public Taps: repair and install public taps	X		10,000	B - 1
PRIORITY 1 SUB-TOTAL			184,210	B - 1
PRIORITY 2 SUB-TOTAL			62,847	B - 2
T O T A L			247,057	

Note: Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, and administrative cost.

Table 5.10 REHABILITATION PLAN FOR MAUBISSE

Facility	Restoration	Improvement	Cost	Priority
1. Spring Intake				
a.) Erulu: install flow meter, valves, public tap; construct		X	7,891	C - 2
drainage facilities and fence; repair damaged outlet pipe				
b.) Raikuak Ulun: install weir, collection chamber and fence;		X	9,295	C - 1
install perforated pipe for collection and inlet				
2. Transmission Main				
a.) Bucana - Pousada: install pipe 75mm x 1.7km including		X	30,600	C - 1
valves and accessories				
b.) Raikuak Ulun - Leputo: install pipe 75mm x 100m including		X	2,553	C -1
valves and accessories				
3. Service Reservoir				
a.) Pousada: install flow meter, valves and level gauge		X	6,451	C - 2
b.) Leputo: construct new reservoir, Vol = 30m3 including		X	15,651	C - 2
appurtenances, chlorinator, fence and pipe interconnection				
4. Distribution Main				
a.) Pousada: install pipe 75mm x 7km and 50mm x 0.50km	X		18,100	C - 1
including valves and others				
b.) Erulu: install pipes 100mm x 1.2km, 75mm x 0.50km	X		39,000	C - 1
including valves and others				
4. Service Connections: repair of existing connections	X		24,000	C- 1
5. Public Taps: repair and install public taps	X		13,000	C - 1
PRIORITY 1 SUB-TOTAL			136,548	C - 1
PRIORITY 2 SUB-TOTAL			29,993	C - 2
T O T A L			166,541	

Note: Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, and administrative cost.

Table 5.11 REHABILITATION PLAN FOR GLENO

Facility	Restoration	Improvement	Cost	Priority
1. River Intake				
a.) Mota Boot: construction of intake chamber 5m x 3m x 1.5m	X		23,692	B - 1
including concrete weir and fence; install intake pipe				
w/ perforation 150m x 100m & outlet pipe 150mm x 100m				
2. Water Treatment Plant: construct concrete apron 10m x 15m x		X	24,456	B - 2
30cm including fence and staff house; install flow meter				
control valve and chlorinator				
3. Service Reservoir				
a.) Proposed: construct new reservoir, Vol = 300 m^3		X	38,304	B - 2
including valves and pipe interconnection				
4. Distribution Main: install pipe 150mm x 1.5km and 100mm x 1km		X	83,500	B - 1
including appurtenances				
5. Service Connections: repair of existing connections	X		81,000	B - 1
6. Public Taps: repair and install public taps	X		30,000	B - 1
PRIORITY 1 SUB-TOTAL			218,192	B - 1
PRIORITY 2 SUB-TOTAL			62,760	B - 2
T O T A L			280,952	

Note: Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, and administrative cost.

Table 5.12 REHABILITATION PLAN FOR ERMERA

Facility	Restoration	Improvement	Cost	Priority
1. Intake				
a.) Ersoi: construct collection chamber, 1.5m x 2m x 2m		X	9,200	C - 1
install collection and outlet pipes 50mm x 70m;				
install fence				
b.) Lubulala: construct collection chamber, 1.5m x 2m x 2m		X	-	C - 1
install collection and outlet pipes 50mm x 70m;				
install fence				
c.) Proposed Mota Bura: construct new intake weir, grit		X	19,826	C - 1
chamber and fence: install collection pipes with				
perforation 100mm x 36m including butterfly valves				
2. Transmission Main				
a.) Proposed: install pipe 100mm x 6.0 km and accessories		X	150,000	C - 1
3. Proposed WTP: construct new SSF 2 x 6m x 8m at 4.5 $m^3/m^2/d$		X	69,241	C - 1
including concrete apron; install 75mm x 20m inlet pipe				
and 100mm x 20m outlet				
4. Service Reservoir				
a.) Proposed: construct new reservoir, Vol = 80m3 including		X	27,088	C - 2
accessories and valves; construct fence and staff house				
5. Distribution Main: install new pipes 100mm x 6 km including		X	150,000	C - 1
valves and appurtenances				
6. Service Connections: repair of existing connections	X		36,000	C - 1
7. Public Taps: repair and install public taps	X		13,000	C - 1
PRIORITY 1 SUB-TOTAL			447,267	C - 1
PRIORITY 2 SUB-TOTAL			27,088	C - 2
T O T A L			474,355	

Note:

1) Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, administrative cost.

2) Cost for item 1-b), included in cost for item 1-a).

Table 5.13 REHABILITATION PLAN FOR LIQUICA

Facility	Restoration	Improvement	Cost	Priority
1. Intake				
a.) Eanlua: construct intake weir 5.0m x 1.5m and install intake		X	Inc	A - 1
100mm x 50m; construct fence				
b.) Daulo: construct intake weir 5.0m x 1.5m and collection		X	inc	A - 1
chamber 2.0m x 4.0m x 2m ; install intake pipes 100mmx				
100m ; construct fence				
c.) Manlaka: install grit chamber(2.0m x 4.0m x 2m) and weir		X	inc	A - 1
2. Transmission Main				
a.) Daulo: install pipe 150mm x 4km including valves		X	168,320	A - 1
b.) Manlaka: install pipe 75mm x 7km and 100mm x 2.5km		X	234,466	A - 1
including valves				
c.) Proposed Deep Well: install pipe 75mm x 2.0km		X	36,000	A - 1
including valves				
d.) Proposed main: install pipe 75mm x 0.3km,100mmx 2.5km,		X	145,900	A - 1
150x 2.0km with necessari appurtenances				
3.Water Treatment				
a.) Proposed:construct slow sand filter basin,fence,outlet		X	76,862	A - 1
chamber,staff house				
4. Service Reservoir				
a.) Serlema: repair of concrete base ,install flow meter,		X	16,574	A - 1
control valve				
b.) Mean: install fence and chlorinator		X	5,300	A - 2
c.) Koramil: construct fence		X	2,400	A - 2
d.) Proposedl: construct new reservoir, Vol = 173m3		X	64,376	A - 2
and install pipe to existing,including appurtenances				
e.) Maumeta: construct new reservoir (170m3),		X	33,930	A - 2
install flow meter, control valves, fence,staff house				
5. Distribution Main				
a.) Proposed: install pipes 200mm x 4km,150mm x 3km for high		X	717,000	A - 1
zones,150mm x 6km,100mm x 2km for low zone				
6. Service Connections: repair of existing connections	X		30,000	A - 1
7. Public Taps: repair and install public taps	X		157,000	A - 1
PRIORITY 1 SUB-TOTAL			1,582,122	A - 1
PRIORITY 2 SUB-TOTAL			106,006	A - 2
T O T A L			1,688,128	

Note:

1) Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, administrative cost.

2) Cost for item 1 included in cost for item 2.

Table 5.14 REHABILITATION PLAN FOR SUAI

Facility	Restoration	Improvement	Cost	Priority
1. Intake				
a.) Sukabilaran 1: install pumps and generator set including		X	92,172	B - 1
accessories; refurbish pump house; construct fence				
b.) Sukabilaran 2: install pumps and generator set including	X		94,972	B - 1
accessories; refurbish pump house; construct fence				
install and realign pipe				
c.) Ameriko: install security fence		X	1,800	B - 2
d.) Kuiuai: install 75mm x 200m inlet and outlet pipe;	X		5,400	B - 2
construct fence				
e.) Olivio: install security fence		X	1,800	B - 2
f.) Maugusu: construct grit chamber and interconnect pipe;		X	5,510	B - 2
construct fence				
2. Transmission Main				
a.) Proposed Tatoli Well - Leugore 3: install pipe 75mm x 3km		X	inc	
including valves				
3. Service Reservoir				
a.) Bereluik 1: Rearrange pipeline; install flow meter		X	3,631	B - 2
control valves, level gauge				
b.) Bereluik 2: construct staff house and fence		X	5,433	B - 2
c.) Propsed:install slow sand filter and pipe,gate valve,		X	170,381	B - 2
flow meter,contoroller				
d.) Leugore 1: install flow meter and control valve		X	5,579	B - 2
e.) Leugore 2: install flow meter and control valve		X	2,579	B - 2
f.) Proposed Leugore 3: construct new reservoir Vol = $30m^3$		X	122,475	B - 1
including pipes, valves and accessories				
4. Pumping Station				
a.) Existing Hospital: install pumps, generator set,	X		88,661	B - 2
accessories and construct fence				
b.) Proposed Leugore P.S.: install pumps, generator set and		X	181,727	B - 1
accessories; install pipes 50mm x 50m				
5. Distribution Main				
a.) Proposed at Tatoli: install pipe 75mm x 1km including		X	25,000	B - 1
gate valves and accessories				
6. Service Connections: repair of existing connections	X		10,000	B - 1
7. Public Taps: repair and install public taps	X		132,000	B - 1
PRIORITY 1 SUB-TOTAL			658,346	B - 1
PRIORITY 2 SUB-TOTAL			290,774	B - 2
T O T A L			949,120	

Note:

1) Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, administrative cost.

2) Cost for item 2-a) included in cost for item 4-b).

Table 5.15 REHABILITATION PLAN FOR MALIANA

Facility	Restoration	Improvement	Cost	Priority
1. Intake				
a.) Dabucci Springs: install fence at 3 spring sites		X	4,500	B - 2
b.) Beremau: construct weir intake chamber, including screen		X	4,730	B - 1
and concrete cover; install fence				
2. Transmission Main				
a.) Beremau: repair pipeline 150mm x 500m		X	2,925	B - 1
3. Water Treatment Plant				
a.) Existing: install new set of booster pump; repair laboratory	X		113,522	B - 1
b.) Proposed: construct new WTP, Capacity = 5 L/s;		X	474,703	B - 1
pipe 75mm; install new sets of pumps and generator				
4. Service Reservoir				
a.) Santa Cruz: install flow meter and valves		X	2,579	B - 2
b.) TV Station 1: install fence and chlorinator		X	4,800	B - 2
c.) TV Station 2: install flow meter, control valves, fence		X	6,629	B - 2
and level gauge				
d.)Proposed WTP:construct slow sand filter basin,		X	143,072	B - 2
interconnection to transmission main,staff house				
e.) Muduklaun: install level gauge and fence		X	1,300	B - 2
f.) Lesubotang: install cover/roof flow meter, control valves		X	10,040	B - 2
level gauge and fence; install chlorinator				
g.) Ritabou: install fence		X	inc	
5. Distribution Main				
a.) Ritabou: install pipe to connect with town's system		X	12,200	B - 2
50mm x 1km				
b.)Deep well No.2:install pipe 75mm x 1km		X		
c.)Santa Cruz :install pipe 100mm x 1.5km and gate valves,		X	39,831	B - 1
air valves,bloe-offs,flow controller				
6.Deep well No.1 and No.2:capacity 4-5l/sec	X		97,000	B - 1
7. Service Connections: repair of existing connections	X		-	B - 1
8. Public Taps: repair and install public taps	X		165,000	B - 1
PRIORITY 1 SUB-TOTAL			897,711	B - 1
PRIORITY 2 SUB-TOTAL			185,120	B - 2
T O T A L			1,082,831	

1) Estimated cost above is a base cost as of December 2000, not including contingencies, engineering fees, cost for land acquisition, administrative cost.

APPENDIX I HOUSEHOLD SURVEY

I.1 PURPOSE OF THE SURVEY

A survey was conducted on the household and population of the 15 towns/sub-district included in the Study Area from 22nd May to 7th June 2000. It was carried with the help of local surveyors handing out questionnaire forms to the population. The survey questionnaires were patterned to suit its purpose with due consideration the turn of events in the East Timor history. Nevertheless, the survey was carried in order to determine the following:

- the knowledge and awareness of the people regarding water supply and sanitation.
- the coverage and condition of service of the municipal water supply system in the pre-violence and post-violence period.
- the effect of the damage caused by the post-referendum violence on the living condition of the people.
- the economic situation and the consumers ability to pay for the water supply service based on their understanding of the issues, such as:

  a.) availability of safe and potable water supply
  b.) the existing conditions of the water supply system
  c.) the efficient and sustainable operation and maintenance of a water supply system
  d.) water usage and conservation
  e.) health and hygiene issues
  f.) sanitary facilities
  g.) awareness on the cause and effect of water-borne diseases
  h.) household income
  i.) economic viability

I.2 METHOD OF THE SURVEY

In order to meet the above-mentioned objectives the questionnaire survey forms was developed containing several response options. From a wide-range of issues such as population, water supply and other infrastructure facilities, economy, etc., the survey also include questions that are related to the service coverage of the existing water supply system. The absence of an established data on the service area necessitates actual field survey on the service population in order to get a more realistic master plan of the water supply system

The survey was carried out on the households spread around the urban area of the 15 towns that comprise the Study Area. A total of 452 respondents were interviewed and 429 effective data were collected and analyzed. The questions were formatted in a brief form that could easily be understood by an ordinary

East Timorese. The original English Questionnaire was translated into the local Tetum language and Bahasa Indonesian version. The questions were reviewed by local counterpart personnel to reflect the existing condition applicable to East Timor. Using the forms prepared, a trial interview was conducted with the local staff as the interviewee. The result was then evaluated and comments were incorporated to revise the preliminary format. The questionnaire was finally prepared and was used in the Household Survey.

The survey was carried in accordance to the Scope of Work formulated by the JICA Study Team for the Study. Two groups comprising of 3 local-trained interviewers were dispatched to the 15 towns to carry out the interview. With the use of the questionnaires, they selected at random the interviewees with to represent 4 section of the towns. At least 20 samples were selected in each town.

I.3 EVALUATION OF THE SURVEY RESULT

A total of 452 respondents were interviewed and 429 effective data were collected. The 23 ineffective data consists of 2 uncompleted forms and 21 respondents who are in transient status. In Dili with 131 samples 125 effective respondents were collected. Based on the Scope of Work, the original intention was to interview 20 samples from the 14 towns outside of the capital city. However, with the possible collection of ineffective data the number was increased to 25. These collected samples above 20 are considered valuable in the evaluation of the current Study since it does not deviate from the original purpose of the survey.

To confirm the effectivity of the survey, partial tabulation of the results was done as shown in the tables below. The service coverage of the water supply system pre-violence representing the pre-violence period was initially computed in **Chapter 4** using assumptions. The initial computation at 49% is very close to the result of the household survey at 51%. This condition shows the efffectiveness of the household survey conducted. The succeeding tables show the initial evaluation of the results and will then be finalized in Japan.

I.4 INITIAL SURVEY RESULTS

The initial results of the household survey as shown in the tables are summarized as follows:

Population Characteristics

Main Source of Income :50% derived from agriculture and private business

Average Monthly Income

Pre-violence :Majority of the respondents (or 40%) receive more than Rp500,000 while 26% receive less than Rp50,000

Post-violence :17% receives more than Rp500,000 and 40% receive less than Rp50,000

Religion :More than 95% of the respondents are Catholic

Household and Facilities Before the Post-Referendum Violence

Average Household Size	:8.6 members per household
Type of House	:55% permanent; 29% semi-permanent; 16% temporary
House Ownership	:2 or more families share one house (or 95% of the respondents live in a house not their own)
Housing Condition	:73% damaged by violence (30% non-livable) and 27% not affected
Water Facilities	:51% piped water; 34% shallow wells; 2% deep wells; 13% from other sources
Type of Service Connection	:76% non-metered; 24% metered
Water Service Performance	:36% enjoys 24-hr water supply; 62% with occasional water supply interruptions; 2% no water supply at all
Average Water Bill	:Rp7,000 per month
Willingness to Pay	:93% of the respondents
Average Electricity Bill	:Rp17,000 per month
Sewage Disposal	:7% by town's sewerage facilities; 31% by individual septic tank; 60% by pit latrine; 2% by other method
Health and Sanitation	:More than 97% awareness
Occurrence of Diseases	:79% malaria; 58% Skin infection; 52% Diarrhea; etc.

Table I.1 SURVEY COVERAGE AND SCHEDULE

No.	District	Town	Population			Sample Breakdown				Date of Survey
			Pre-Violence	Post-Violence	Planned Respondent	Actual Collected	Not Collected	Transient Respondent	Effective Sample	
1	Dili	Dili	149,101	131,027	100	131	0	6	125	24-26 May
2	Atauro	Atauro	7,387	7,750	20	25	0	0	25	01June
3	Manatuto	Manatuto	12,750	9,223	20	24	0	0	24	23 May
4	Baucau	Baucau	12,910	9,000	20	21	0	1	20	23 May
5	Lautem	Los Palos	24,739	20,924	20	22	0	0	22	29 May
6	Viqueuqe	Viqueque	20,440	20,559	20	18	0	1	17	30 May
7	Manufahi	Same	23,331	20,381	20	26	0	1	25	05 May
8	Ainaro	Ainaro	15,697	10,889	20	25	0	0	25	06 May
9	Aileu	Aileu	13,103	14,078	20	25	2	0	23	22 May
10	Ainaro	Maubisse	16,841	18,000	20	24	0	0	24	07 June
11	Ermera	Gleno	24,812	20,912	20	24	0	4	20	31May
12	Ermera	Ermera	-	-	20	20	0	1	19	31May
13	Liquica	Liquica	19,055	17,636	20	18	0	0	18	22 May
14	Covalima	Suai	18,505	16,127	20	25	0	0	25	06 June
15	Bobonaro	Maliana	20,798	17,630	20	24	0	7	17	02 June
T O T A L			379,469	334,136	380	452	2	21	429	

The results of the survey with responses to particular questions prepared on issues such as the population, housing, health, social and economic aspects in relation to the water supply system of each town are tabulated in the succeeding tables.

1. Sex of respondent

No.	Town	Male		Female		Total	
1	Aileu	19	82,6%	4	17,4%	23	100.0%
2	Liquica	7	38,9%	11	61,1%	18	100.0%
3	Manatuto	16	66,7%	8	33,3%	24	100.0%
4	Baucau	11	55,0%	9	45,0%	20	100.0%
5	Dili	95	76,0%	30	24,0%	125	100.0%
6	Lospalos	18	81,8%	4	18,2%	22	100.0%
7	Viqueque	15	88,2%	2	11,8%	17	100.0%
8	Gleno	19	95,0%	1	5,0%	20	100.0%
9	Ermera	16	84,2%	3	15,8%	19	100.0%
10	Atauro	20	80,0%	5	20,0%	25	100.0%
11	Maliana	14	82,4%	3	17,6%	17	100.0%
12	Same	21	84,0%	4	16,0%	25	100.0%
13	Suai	16	64,0%	9	36,0%	25	100.0%
14	Ainaro	22	88,0%	3	12,0%	25	100.0%
15	Maubisse	20	83,3%	4	16,7%	24	100.0%
Total		329	76,7%	100	23,3%	429	100.0%

2. Is the respondent the head of household or the other?

No.	Town	a) Householder		b) Others		Total	
1	Aileu	21	95,5%	1	4,5%	22	100.0%
2	Liquica	9	50,0%	9	50,0%	18	100.0%
3	Manatuto	24	100.0%	0	0,0%	24	100.0%
4	Baucau	13	65,0%	7	35,0%	20	100.0%
5	Dili	116	92,8%	9	7,2%	125	100.0%
6	Lospalos	22	100.0%	0	0,0%	22	100.0%
7	Viqueque	14	82,4%	3	17,6%	17	100.0%
8	Gleno	19	95,0%	1	5,0%	20	100.0%
9	Ermera	14	77,8%	4	22,2%	18	100.0%
10	Atauro	23	92,0%	2	8,0%	25	100.0%
11	Maliana	12	70,6%	5	29,4%	17	100.0%
12	Same	25	100.0%	0	0,0%	25	100.0%
13	Suai	18	72,0%	7	28,0%	25	100.0%
14	Ainaro	22	88,0%	3	12,0%	25	100.0%
15	Maubisse	22	91,7%	2	8,3%	24	100.0%
Total		374	87,6%	53	12,4%	427	100.0%

3. Who owns this house?

No.	Town	a) The family		b) A relative		c) Others		Total	
1	Aileu	1	4,3%	18	78,3%	4	17,4%	23	100.0%
2	Liquica	1	5,6%	14	77,8%	3	16,7%	18	100.0%
3	Manatuto	1	4,2%	23	95,8%	0	0,0%	24	100.0%
4	Baucau	0	0,0%	19	95,0%	1	5,0%	20	100.0%

5	Dili	3	2,4%	96	77,4%	25	20,2%	124	100.0%
6	Lospalos	0	0,0%	21	95,5%	1	4,5%	22	100.0%
7	Viqueque	2	11,8%	14	82,4%	1	5,9%	17	100.0%
8	Gleno	0	0,0%	15	75,0%	5	25,0%	20	100.0%
9	Ermera	5	27,8%	11	61,1%	2	11,1%	18	100.0%
10	Atauro	1	4,0%	24	96,0%	0	0,0%	25	100.0%
11	Maliana	5	29,4%	11	64,7%	1	5,9%	17	100.0%
12	Same	0	0,0%	22	88,0%	3	12,0%	25	100.0%
13	Suai	0	0,0%	18	72,0%	7	28,0%	25	100.0%
14	Ainaro	1	4,0%	23	92,0%	1	4,0%	25	100.0%
15	Maubisse	2	8,3%	20	83,3%	2	8,3%	24	100.0%
Total		22	5,2%	349	81,7%	56	13,1%	427	100.0%

4. Type of house

No	Town	a) Permanent		b) Semi-permanent		c) Temporary		Total	
1	Aileu	12	52.2%	7	30.4%	4	17.4%	23	100.0%
2	Liquica	11	61.1%	1	5,6%	6	33.3%	18	100.0%
3	Manatuto	11	45.8%	10	41.7%	3	12.5%	24	100.0%
4	Baucau	15	75.0%	3	15.0%	2	10.0%	20	100.0%
5	Dili	79	63.2%	31	24.8%	15	12.0%	125	100.0%
6	Lospalos	12	54.5%	8	36.4%	2	9.1%	22	100.0%
7	Viqueque	8	50.0%	8	50.0%	0	0.0%	16	100.0%
8	Gleno	16	88.9%	2	11.1%	0	0.0%	18	100.0%
9	Ermera	14	73.7%	2	10.5%	3	15.8%	19	100.0%
10	Atauro	6	24.0%	12	48.0%	7	28.0%	25	100.0%
11	Maliana	2	11.8%	10	58.8%	5	29.4%	17	100.0%
12	Same	12	48.0%	6	24.0%	7	28.0%	25	100.0%
13	Suai	12	48.0%	12	48.0%	1	4.0%	25	100.0%
14	Ainaro	16	64.0%	8	32.0%	1	4.0%	25	100.0%
15	Maubisse	10	41.7%	4	16.7%	10	41.7%	24	100.0%
Total		236	55.4%	124	29.1%	66	15.5%	426	100.0%

5. House damage by violence

No	Town	a) All broken		b) Serious		c) Partially		d) Small		e) No damage		Total	
1	Aileu	16	69.6%	3	13.0%	0	0.0%	1	4.3%	3	13.0%	23	100.0%
2	Liquica	8	44.4%	2	11.1%	2	11.1%	3	16.7%	3	16.7%	18	100.0%
3	Manatuto	19	79.2%	1	4.2%	2	8.3%	2	8.3%	0	0.0%	24	100.0%
4	Baucau	3	15.0%	0	0.0%	6	30.0%	6	30.0%	5	25.0%	20	100.0%
5	Dili	30	25.0%	6	5.0%	21	17.5%	41	34.2%	22	18.3%	120	100.0%
6	Lospalos	4	18.2%	2	9.1%	0	0.0%	11	50.0%	5	22.7%	22	100.0%
7	Viqueque	7	43.8%	0	0.0%	3	18.8%	2	12.5%	4	25.0%	16	100.0%
8	Gleno	2	10.5%	7	36.8%	1	5.3%	7	36.8%	2	10.5%	19	100.0%
9	Ermera	1	5.3%	0	0.0%	3	15.8%	0	0.0%	15	78.9%	19	100.0%
10	Atauro	0	0.0%	0	0.0%	0	0.0%	0	0.0%	25	100.0%	25	100.0%
11	Maliana	12	70.6%	3	17.6%	0	0.0%	2	11.8%	0	0.0%	17	100.0%

12	Same	5	20.0%	1	4.0%	2	8.0%	7	28.0%	10	40.0%	25	100.0%
13	Suai	7	28.0%	13	52.0%	1	4.0%	2	8.0%	2	8.0%	25	100.0%
14	Ainaro	5	20.8%	11	45.8%	2	8.3%	2	8.3%	4	16.7%	24	100.0%
15	Maubisse	6	25.0%	0	0.0%	4	16.7%	2	8.3%	12	50.0%	24	100.0%
Total		125	29.7%	49	11.6%	47	11.2%	88	20.9%	112	26.6%	421	100.0%

6. How many family members live in this house?

a.) Before violence

No	Town	Under 5 yrs old		5 - 15 yrs old		Male: 15 yrs +		Female: 15 yrs +		TOTAL	
1	Aileu	2.0	20.4%	2.0	19.6%	3.7	36.5%	2.3	23.5%	10.0	100.0%
2	Liquica	2.0	21.3%	2.1	21.9%	2.4	25.4%	2.9	31.4%	9.4	100.0%
3	Manatuto	1.5	15.0%	1.6	15.9%	3.3	32.5%	3.8	36.6%	10.3	100.0%
4	Baucau	1.5	25.4%	1.0	17.5%	1.5	25.4%	1.8	31.6%	5.7	100.0%
5	Dili	1.3	15.9%	1.6	19.5%	2.9	34.9%	2.5	29.7%	8.3	100.0%
6	Lospalos	1.5	17.1%	2.0	22.1%	2.4	26.6%	3.1	34.2%	9.0	100.0%
7	Viqueque	1.5	20.8%	1.2	17.5%	2.7	38.3%	1.6	23.3%	7.1	100.0%
8	Gleno	1.3	16.4%	2.2	27.0%	2.8	34.6%	1.8	22.0%	8.0	100.0%
9	Ermera	1.7	22.9%	1.3	17.9%	2.2	30.0%	2.2	29.3%	7.4	100.0%
10	Atauro	1.5	19.0%	1.9	23.5%	2.4	30.0%	2.2	27.5%	8.0	100.0%
11	Maliana	1.2	16.1%	1.2	16.9%	2.5	33.9%	2.4	33.1%	7.3	100.0%
12	Same	1.3	11.9%	2.2	20.7%	3.3	30.7%	4.0	36.7%	10.8	100.0%
13	Suai	0.8	11.5%	1.9	27.6%	2.2	31.6%	2.0	29.3%	7.0	100.0%
14	Ainaro	2.0	21.4%	2.4	25.6%	2.7	28.2%	2.4	24.8%	9.5	100.0%
15	Maubisse	1.7	14.6%	2.0	16.7%	4.2	35.9%	3.8	32.7%	11.7	100.0%
Average		1.5	17.7%	1.8	20.6%	2.7	31.8%	2.6	30.0%	8.6	100.0%

b.) After Violence

No.	Town	Under 5 yrs old		5 - 15 yrs old		Male: 15 yrs +		Female: 15 yrs +		TOTAL	
1	Aileu	2.0	19.5%	2.0	19.5%	3.4	33.8%	2.7	27.3%	10.0	100.0%
2	Liquica	1.9	20.7%	2.0	22.0%	2.3	25.0%	2.9	32.3%	9.1	100.0%
3	Manatuto	1.7	16.0%	1.6	15.6%	3.3	31.6%	3.8	36.8%	10.4	100.0%
4	Baucau	1.6	25.8%	1.1	18.3%	1.5	24.2%	1.9	31.7%	6.0	100.0%
5	Dili	1.3	15.4%	1.7	19.5%	3.1	35.7%	2.5	29.4%	8.6	100.0%
6	Lospalos	1.6	18.0%	2.0	22.2%	2.3	25.8%	3.0	34.0%	8.8	100.0%
7	Viqueque	1.1	17.9%	1.1	17.0%	2.6	41.5%	2.1	33.0%	6.2	109.4%
8	Gleno	1.3	16.1%	2.2	26.7%	2.8	34.2%	1.9	23.0%	8.1	100.0%
9	Ermera	1.7	22.8%	1.3	16.6%	2.5	32.4%	2.2	28.3%	7.6	100.0%
10	Atauro	1.5	19.4%	1.9	24.0%	2.3	29.6%	2.1	27.0%	7.8	100.0%
11	Maliana	1.3	17.5%	1.2	16.7%	2.5	33.3%	2.4	32.5%	7.4	100.0%
12	Same	1.4	13.3%	2.0	18.9%	3.4	31.1%	4.0	36.7%	10.8	100.0%
13	Suai	0.8	12.1%	1.9	27.6%	2.2	31.0%	2.0	29.3%	7.0	100.0%
14	Ainaro	2.0	22.0%	2.2	24.2%	2.7	30.0%	2.1	23.8%	8.9	100.0%
15	Maubisse	1.8	14.9%	2.0	16.7%	4.2	35.8%	3.8	32.6%	11.8	100.0%
Average		1.5	17.8%	1.7	20.1%	2.7	31.6%	2.6	30.6%	8.6	100.0%

7. What is the occupation of the head of household? (Main source of income)

No	Town	a) Agriculture		b) Business		c) Govt Employee		d) Teacher		e) None	
1	Aileu	10	43.5%	2	8.7%	6	26.1%	1	4.3%	3	13.0%
2	Liquica	2	11.1%	4	22.2%	5	27.8%	0	0.0%	3	16.7%
3	Manatuto	2	8.3%	6	25.0%	10	41.7%	2	8.3%	3	12.5%
4	Baucau	1	5.0%	11	55.0%	1	5.0%	4	20.0%	2	10.0%
5	Dili	17	13.6%	35	28.0%	25	20.0%	2	1.6%	23	18.4%
6	Lospalos	1	4.5%	10	45.5%	2	9.1%	3	13.6%	3	13.6%
7	Viqueque	6	35.3%	6	35.3%	2	11.8%	0	0.0%	3	17.6%
8	Gleno	1	5.0%	5	25.0%	7	35.0%	1	5.0%	6	30.0%
9	Ermera	6	31.6%	10	52.6%	0	0.0%	1	5.3%	2	10.5%
10	Atauro	10	40.0%	0	0.0%	1	4.0%	5	20.0%	4	16.0%
11	Maliana	12	70.6%	3	17.6%	2	11.8%	0	0.0%	0	0.0%
12	Same	9	36.0%	4	16.0%	7	28.0%	3	12.0%	0	0.0%
13	Suai	10	40.0%	2	8.0%	2	8.0%	0	0.0%	11	44.0%
14	Ainaro	10	40.0%	2	8.0%	1	4.0%	0	0.0%	12	48.0%
15	Maubisse	10	41.7%	7	29.2%	6	25.0%	0	0.0%	0	0.0%
TOTAL		107	24.9%	107	24.9%	77	17.9%	22	5.1%	75	17.5%

No.	Town	f) Others		g) Don't know		Total	
1	Aileu	1	4.3%	0	0.0%	23	100.0%
2	Liquica	4	22.2%	0	0.0%	18	100.0%
3	Manatuto	1	4.2%	0	0.0%	24	100.0%
4	Baucau	1	5.0%	0	0.0%	20	100.0%
5	Dili	14	11.2%	9	7.2%	125	100.0%
6	Lospalos	3	13.6%	0	0.0%	22	100.0%
7	Viqueque	0	0.0%	0	0.0%	17	100.0%
8	Gleno	0	0.0%	0	0.0%	20	100.0%
9	Ermera	0	0.0%	0	0.0%	19	100.0%
10	Atauro	1	4.0%	4	16.0%	25	100.0%
11	Maliana	0	0.0%	0	0.0%	17	100.0%
12	Same	2	8.0%	0	0.0%	25	100.0%
13	Suai	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	0	0.0%	0	0.0%	25	100.0%
15	Maubisse	0	0.0%	1	4.2%	24	100.0%
TOTAL		27	6.3%	14	3.3%	429	100.0%

8. What is religion of the head of household?

No	Town	Catholic		Buddhism		Total	
1	Aileu	23	100.0%	0	0.0%	23	100.0%
2	Liquica	17	94.4%	1	5.6%	18	100.0%
3	Manatuto	24	100.0%	0	0.0%	24	100.0%
4	Baucau	20	100.0%	0	0.0%	20	100.0%
5	Dili	125	100.0%	0	0.0%	125	100.0%
6	Lospalos	22	100.0%	0	0.0%	22	100.0%
7	Viqueque	15	93.8%	1	6.3%	16	100.0%
8	Gleno	17	100.0%	0	0.0%	17	100.0%
9	Ermera	19	100.0%	0	0.0%	19	100.0%
10	Atauro	25	100.0%	0	0.0%	25	100.0%
11	Maliana	16	100.0%	0	0.0%	16	100.0%
12	Same	25	100.0%	0	0.0%	25	100.0%
13	Suai	25	100.0%	0	0.0%	25	100.0%
14	Ainaro	25	100.0%	0	0.0%	25	100.0%
15	Maubisse	23	100.0%	0	0.0%	23	100.0%
Total		421	99.5%	2	0.5%	423	100.0%

9. How much is the average income for this household monthly?

a.) Before violence

No	Town	a)		b)		c)		d)		e)		Total	
1	Aileu	9	39.1%	1	4.3%	4	17.4%	8	34.8%	1	4.3%	23	100.0%
2	Liquica	0	0.0%	2	11.1%	6	33.3%	8	44.4%	2	11.1%	18	100.0%
3	Manatuto	2	8.3%	4	16.7%	3	12.5%	14	58.3%	1	4.2%	24	100.0%
4	Baucau	4	20.0%	3	15.0%	0	0.0%	13	65.0%	0	0.0%	20	100.0%
5	Dili	25	20.3%	15	12.2%	29	23.6%	52	42.3%	2	1.6%	123	100.0%
6	Lospalos	8	36.4%	1	4.5%	7	31.8%	6	27.3%	0	0.0%	22	100.0%
7	Viqueque	3	17.6%	1	5.9%	8	47.1%	5	29.4%	0	0.0%	17	100.0%
8	Gleno	7	35.0%	7	35.0%	2	10.0%	4	20.0%	0	0.0%	20	100.0%
9	Ermera	6	31.6%	2	10.5%	2	10.5%	9	47.4%	0	0.0%	19	100.0%
10	Atauro	11	44.0%	2	8.0%	1	4.0%	7	28.0%	4	16.0%	25	100.0%
11	Maliana	4	23.5%	1	5.9%	3	17.6%	9	52.9%	0	0.0%	17	100.0%
12	Same	2	8.0%	2	8.0%	6	24.0%	13	52.0%	2	8.0%	25	100.0%
13	Suai	17	68.0%	3	12.0%	1	4.0%	4	16.0%	0	0.0%	25	100.0%
14	Ainaro	14	56.0%	0	0.0%	3	12.0%	5	20.0%	3	12.0%	25	100.0%
15	Maubisse	1	4.2%	4	16.7%	7	29.2%	12	50.0%	0	0.0%	24	100.0%
	Total	113	26.5%	48	11.2%	82	19.2%	169	39.6%	15	3.5%	427	100.0%

b.) After violence

No.	Town	a)		b)		c)		d)		e)		Total	
1	Aileu	8	34.8%	1	4.3%	7	30.4%	2	8.7%	5	21.7%	23	100.0%
2	Liquica	6	33.3%	2	11.1%	5	27.8%	3	16.7%	2	11.1%	18	100.0%
3	Manatuto	4	16.7%	2	8.3%	4	16.7%	3	12.5%	11	45.8%	24	100.0%
4	Baucau	8	40.0%	3	15.0%	7	35.0%	2	10.0%	0	0.0%	20	100.0%

5	Dili	51	41.5%	10	8.1%	13	10.6%	30	24.4%	19	15.4%	123	100.0%
6	Lospalos	11	50.0%	2	9.1%	4	18.2%	4	18.2%	1	4.5%	22	100.0%
7	Viqueque	7	41.2%	2	11.8%	1	5.9%	2	11.8%	5	29.4%	17	100.0%
8	Gleno	7	35.0%	8	40.0%	2	10.0%	3	15.0%	0	0.0%	20	100.0%
9	Ermera	7	36.8%	0	0.0%	3	15.8%	8	42.1%	1	5.3%	19	100.0%
10	Atauro	11	44.0%	2	8.0%	4	16.0%	0	0.0%	8	32.0%	25	100.0%
11	Maliana	11	64.7%	4	23.5%	2	11.8%	0	0.0%	0	0.0%	17	100.0%
12	Same	3	12.0%	7	28.0%	4	16.0%	8	32.0%	3	12.0%	25	100.0%
13	Suai	20	80.0%	3	12.0%	1	4.0%	1	4.0%	0	0.0%	25	100.0%
14	Ainaro	17	68.0%	0	0.0%	1	4.0%	3	12.0%	4	16.0%	25	100.0%
15	Maubisse	2	8.3%	9	37.5%	4	16.7%	4	16.7%	5	20.8%	24	100.0%
Total		173	40.5%	55	12.9%	62	14.5%	73	17.1%	64	15.0%	427	100.0%

* a) under Rp.50,000 b) Rp.50,000-Rp.100,000 c) Rp.100,000-Rp.500,000 d) over Rp.500,000
e) Don't know or no response

10. What type of main water supply was available to the household before violence?

No.	Town	a) Individual		b) Hydrant		c) Water Tanker		d) Dug Well		e) Hand Pump		f) Borehole	
1	Aileu	6	26.1%	4	17.4%	0	0.0%	2	8.7%	0	0.0%	0	0.0%
2	Liquica	10	55.6%	3	16.7%	1	5.6%	3	16.7%	0	0.0%	0	0.0%
3	Manatuto	12	50.0%	0	0.0%	0	0.0%	8	33.3%	3	12.5%	0	0.0%
4	Baucau	0	0.0%	8	40.0%	10	50.0%	0	0.0%	0	0.0%	0	0.0%
5	Dili	14	11.4%	6	4.9%	0	0.0%	22	17.9%	65	52.8%	10	8.1%
6	Lospalos	12	54.5%	0	0.0%	0	0.0%	6	27.3%	2	9.1%	0	0.0%
7	Viqueque	6	35.3%	7	41.2%	0	0.0%	1	5.9%	3	17.6%	0	0.0%
8	Gleno	10	50.0%	5	25.0%	0	0.0%	2	10.0%	0	0.0%	0	0.0%
9	Ermera	1	5.3%	13	68.4%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
10	Atauro	19	76.0%	5	20.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
11	Maliana	4	23.5%	4	23.5%	0	0.0%	8	47.1%	0	0.0%	0	0.0%
12	Same	19	76.0%	4	16.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
13	Suai	8	32.0%	4	16.0%	0	0.0%	12	48.0%	0	0.0%	0	0.0%
14	Ainaro	7	28.0%	12	48.0%	0	0.0%	1	4.0%	4	16.0%	0	0.0%
15	Maubisse	12	50.0%	2	8.3%	0	0.0%	3	12.5%	0	0.0%	0	0.0%
Total		140	32.8%	77	18.0%	11	2.6%	68	15.9%	77	18.0%	10	2.3%

No.	Town	g) River		h) Spring		i) Others		j)Don't know		Total	
1	Aileu	8	34.8%	3	13.0%	0	0.0%	0	0.0%	23	100.0%
2	Liquica	1	5.6%	0	0.0%	0	0.0%	0	0.0%	18	100.0%
3	Manatuto	0	0.0%	0	0.0%	1	4.2%	0	0.0%	24	100.0%
4	Baucau	0	0.0%	2	10.0%	0	0.0%	0	0.0%	20	100.0%
5	Dili	0	0.0%	2	1.6%	2	1.6%	2	1.6%	123	100.0%
6	Lospalos	0	0.0%	1	4.5%	0	0.0%	1	4.5%	22	100.0%
7	Viqueque	0	0.0%	0	0.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	0	0.0%	0	0.0%	0	0.0%	3	15.0%	20	100.0%
9	Ermera	0	0.0%	5	26.3%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	0	0.0%	0	0.0%	1	4.0%	0	0.0%	25	100.0%

11	Maliana	1	5.9%	0	0.0%	0	0.0%	0	0.0%	17	100.0%
12	Same	0	0.0%	2	8.0%	0	0.0%	0	0.0%	25	100.0%
13	Suai	0	0.0%	0	0.0%	1	4.0%	0	0.0%	25	100.0%
14	Ainaro	0	0.0%	1	4.0%	0	0.0%	0	0.0%	25	100.0%
15	Maubisse	0	0.0%	7	29.2%	0	0.0%	0	0.0%	24	100.0%
Total		10	2.3%	23	5.4%	5	1.2%	6	1.4%	427	100.0%

11. If individual was available in the household before the violence, condition of the water connection and the water meter (according to the respondent's observation).

a.) The Water Connection

No.	Town	a) No damage		b) With damage		c) Missing		d) Others		Total	
1	Aileu	2	33.3%	3	50.0%	1	16.7%	0	0.0%	6	100.0%
2	Liquica	6	60.0%	1	10.0%	3	30.0%	0	0.0%	10	100.0%
3	Manatuto	0	0.0%	6	50.0%	6	50.0%	0	0.0%	12	100.0%
4	Baucau	0		0		0		0		0	0.0%
5	Dili	1	8.3%	8	66.7%	3	25.0%	0	0.0%	12	100.0%
6	Lospalos	3	25.0%	8	66.7%	1	8.3%	0	0.0%	12	100.0%
7	Viqueque	5	100.0%	0	0.0%	0	0.0%	0	0.0%	5	100.0%
8	Gleno	3	30.0%	4	40.0%	3	30.0%	0	0.0%	10	100.0%
9	Ermera	0		0		0		0		0	0.0%
10	Atauro	0	0.0%	0	0.0%	0	0.0%	19	100.0%	19	100.0%
11	Maliana	0	0.0%	2	50.0%	2	50.0%	0	0.0%	4	100.0%
12	Same	11	57.9%	6	31.6%	1	5.3%	1	5.3%	19	100.0%
13	Suai	1	12.5%	2	25.0%	4	50.0%	1	12.5%	8	100.0%
14	Ainaro	0	0.0%	0	0.0%	7	100.0%	0	0.0%	7	100.0%
15	Maubisse	4	36.4%	4	36.4%	3	27.3%	0	0.0%	11	100.0%
Total		36	26.7%	44	32.6%	34	25.2%	21	15.6%	135	100.0%

b.) The Water Meter

No.	Town	a) Non		b) Missing		c) Working		d) Not working		e) Others		Total	
1	Aileu	1	16.7%	3	50.0%	1	16.7%	1	16.7%	0	0.0%	6	100.0%
2	Liquica	7	70.0%	2	20.0%	0	0.0%	0	0.0%	1	10.0%	10	100.0%
3	Manatuto	4	33.3%	7	58.3%	0	0.0%	1	8.3%	0	0.0%	12	100.0%
4	Baucau	0		0		0		0		0		0	0.0%
5	Dili	5	41.7%	3	25.0%	2	16.7%	2	16.7%	0	0.0%	12	100.0%
6	Lospalos	5	41.7%	1	8.3%	0	0.0%	6	50.0%	0	0.0%	12	100.0%
7	Viqueque	0	0.0%	0	0.0%	4	80.0%	0	0.0%	1	20.0%	5	100.0%
8	Gleno	0	0.0%	3	30.0%	0	0.0%	7	70.0%	0	0.0%	10	100.0%
9	Ermera	0		0		0		0		0		0	0.0%
10	Atauro	0	0.0%	0	0.0%	0	0.0%	0	0.0%	19	100.0%	19	100.0%
11	Maliana	0	0.0%	3	75.0%	0	0.0%	1	25.0%	0	0.0%	4	100.0%
12	Same	11	57.9%	6	31.6%	0	0.0%	1	5.3%	1	5.3%	19	100.0%
13	Suai	0	0.0%	3	37.5%	2	25.0%	2	25.0%	1	12.5%	8	100.0%
14	Ainaro	0	0.0%	7	100.0%	0	0.0%	0	0.0%	0	0.0%	7	100.0%
15	Maubisse	5	45.5%	4	36.4%	1	9.1%	1	9.1%	0	0.0%	11	100.0%

Total	38	28.1%	42	31.1%	10	7.4%	22	16.3%	23	17.0%	135	100.0%

12. How often did the water from main water source stop per day before violence?

No	Town	a) Regular		b) Irregular		c) Seasonal		d) None		Total	
1	Aileu	9	39.1%	13	56.5%	1	4.3%	0	0.0%	23	100.0%
2	Liquica	6	33.3%	4	22.2%	8	44.4%	0	0.0%	18	100.0%
3	Manatuto	15	62.5%	8	33.3%	1	4.2%	0	0.0%	24	100.0%
4	Baucau	0	0.0%	20	100.0%	0	0.0%	0	0.0%	20	100.0%
5	Dili	75	63.6%	38	32.2%	5	4.2%	0	0.0%	118	100.0%
6	Lospalos	17	77.3%	4	18.2%	0	0.0%	1	4.5%	22	100.0%
7	Viqueque	3	17.6%	14	82.4%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	17	100.0%	0	0.0%	0	0.0%	0	0.0%	17	100.0%
9	Ermera	7	36.8%	12	63.2%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	23	92.0%	2	8.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	9	52.9%	8	47.1%	0	0.0%	0	0.0%	17	100.0%
12	Same	19	76.0%	5	20.0%	0	0.0%	1	4.0%	25	100.0%
13	Suai	14	60.9%	9	39.1%	0	0.0%	0	0.0%	23	100.0%
14	Ainaro	13	52.0%	12	48.0%	0	0.0%	0	0.0%	25	100.0%
15	Maubisse	17	70.8%	2	8.3%	0	0.0%	5	20.8%	24	100.0%
Total		244	58.5%	151	36.2%	15	3.6%	7	1.7%	417	100.0%

13. How much did you pay for the usage of water monthly before violence?

No	Town	Average	Number of Data		None		Don't know		Total	
1	Aileu	Rp4,400	5	21.7%	17	73.9%	1	4.3%	23	100.0%
2	Liquica	Rp6,000	12	66.7%	6	33.3%	0	0.0%	18	100.0%
3	Manatuto	Rp10,923	13	54.2%	11	45.8%	0	0.0%	24	100.0%
4	Baucau	Rp9,053	19	95.0%	1	5.0%	0	0.0%	20	100.0%
5	Dili	Rp5,846	17	13.6%	108	86.4%	0	0.0%	125	100.0%
6	Lospalos	Rp11,692	13	59.1%	9	40.9%	0	0.0%	22	100.0%
7	Viqueque	Rp9,056	9	52.9%	8	47.1%	0	0.0%	17	100.0%
8	Gleno	Rp5,350	10	50.0%	10	50.0%	0	0.0%	20	100.0%
9	Ermera	Rp12,375	4	21.1%	15	78.9%	0	0.0%	19	100.0%
10	Atauro	Rp0	0	0.0%	25	100.0%	0	0.0%	25	100.0%
11	Maliana	Rp3,600	5	29.4%	12	70.6%	0	0.0%	17	100.0%
12	Same	Rp5,958	12	48.0%	13	52.0%	0	0.0%	25	100.0%
13	Suai	Rp5,182	11	44.0%	14	56.0%	0	0.0%	25	100.0%
14	Ainaro	Rp8,423	13	54.2%	11	45.8%	0	0.0%	24	100.0%
15	Maubisse	Rp5,125	4	16.7%	20	83.3%	0	0.0%	24	100.0%
Total		Rp6,866	147	34.3%	280	65.4%	1	0.2%	428	100.0%

14. How much did you pay for the usage of electricity monthly before violence?

No	Town	Average	Number of Data		None		Don't know		Total	
1	Aileu	Rp12,700	15	65.2%	8	34.8%	0	0.0%	23	100.0%
2	Liquica	Rp21,808	13	72.2%	5	27.8%	0	0.0%	18	100.0%
3	Manatuto	Rp20,217	23	95.8%	1	4.2%	0	0.0%	24	100.0%

4	Baucau	Rp19,053	19	95.0%	1	5.0%	0	0.0%	20	100.0%
5	Dili	Rp27,751	101	80.8%	21	16.8%	3	2.4%	125	100.0%
6	Lospalos	Rp15,605	19	86.4%	3	13.6%	0	0.0%	22	100.0%
7	Viqueque	Rp27,333	15	88.2%	2	11.8%	0	0.0%	17	100.0%
8	Gleno	Rp6,807	15	75.0%	5	25.0%	0	0.0%	20	100.0%
9	Ermera	Rp20,727	11	57.9%	8	42.1%	0	0.0%	19	100.0%
10	Atauro	Rp7,176	17	68.0%	8	32.0%	0	0.0%	25	100.0%
11	Maliana	Rp14,618	17	100.0%	0	0.0%	0	0.0%	17	100.0%
12	Same	Rp21,438	16	64.0%	9	36.0%	0	0.0%	25	100.0%
13	Suai	Rp9,929	14	56.0%	10	40.0%	1	4.0%	25	100.0%
14	Ainaro	Rp13,722	18	72.0%	7	28.0%	0	0.0%	25	100.0%
15	Maubisse	Rp14,053	19	79.2%	5	20.8%	0	0.0%	24	100.0%
Total		Rp16,862	332	77.4%	93	21.7%	4	0.9%	429	100.0%

15. What type of main water supply is available to the household after violence?

No.	Town	a) Individual		b) Hydrant		c) Water Tanker		d) Dug Well		e) Hand Pump	
1	Aileu	5	21.7%	3	13.0%	0	0.0%	3	13.0%	0	0.0%
2	Liquica	10	55.6%	2	11.1%	1	5.6%	3	16.7%	0	0.0%
3	Manatuto	0	0.0%	1	4.2%	0	0.0%	14	58.3%	9	37.5%
4	Baucau	2	10.0%	11	55.0%	5	25.0%	0	0.0%	0	0.0%
5	Dili	17	13.6%	10	8.0%	0	0.0%	22	17.6%	60	48.0%
6	Lospalos	10	45.5%	1	4.5%	0	0.0%	10	45.5%	1	4.5%
7	Viqueque	6	35.3%	8	47.1%	0	0.0%	1	5.9%	2	11.8%
8	Gleno	11	55.0%	7	35.0%	0	0.0%	2	10.0%	0	0.0%
9	Ermera	1	5.3%	13	68.4%	0	0.0%	0	0.0%	0	0.0%
10	Atauro	19	76.0%	5	20.0%	0	0.0%	0	0.0%	0	0.0%
11	Maliana	2	11.8%	2	11.8%	0	0.0%	12	70.6%	0	0.0%
12	Same	17	68.0%	6	24.0%	0	0.0%	0	0.0%	0	0.0%
13	Suai	4	16.0%	10	40.0%	0	0.0%	10	40.0%	1	4.0%
14	Ainaro	3	12.0%	14	56.0%	0	0.0%	2	8.0%	4	16.0%
15	Maubisse	11	45.8%	1	4.2%	0	0.0%	3	12.5%	0	0.0%
Total		118	27.5%	94	21.9%	6	1.4%	82	19.1%	77	17.9%

No.	Town	f) Borehole		g) River		h) Spring		i) Others		Total	
1	Aileu	0	0.0%	9	39.1%	3	13.0%	0	0.0%	23	100.0%
2	Liquica	0	0.0%	0	0.0%	1	5.6%	1	5.6%	18	100.0%
3	Manatuto	0	0.0%	0	0.0%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	0	0.0%	0	0.0%	2	10.0%	0	0.0%	20	100.0%
5	Dili	11	8.8%	0	0.0%	2	1.6%	3	2.4%	125	100.0%
6	Lospalos	0	0.0%	0	0.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	0	0.0%	0	0.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	0	0.0%	0	0.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	0	0.0%	0	0.0%	5	26.3%	0	0.0%	19	100.0%
10	Atauro	0	0.0%	0	0.0%	0	0.0%	1	4.0%	25	100.0%
11	Maliana	0	0.0%	1	5.9%	0	0.0%	0	0.0%	17	100.0%
12	Same	0	0.0%	0	0.0%	2	8.0%	0	0.0%	25	100.0%
13	Suai	0	0.0%	0	0.0%	0	0.0%	0	0.0%	25	100.0%

14	Ainaro	0	0.0%	0	0.0%	2	8.0%	0	0.0%	25	100.0%
15	Maubisse	0	0.0%	0	0.0%	9	37.5%	0	0.0%	24	100.0%
Total		11	2.6%	10	2.3%	26	6.1%	5	1.2%	429	100.0%

16. How often does the water from main water source stop per day after violence?

No.	Town	a) Regular		b) Irregular		c) Seasonal		d) None		Total	
1	Aileu	10	45.5%	12	54.5%	0	0.0%	0	0.0%	22	100.0%
2	Liquica	3	17.6%	4	23.5%	10	58.8%	0	0.0%	17	100.0%
3	Manatuto	10	41.7%	14	58.3%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	2	10.0%	18	90.0%	0	0.0%	0	0.0%	20	100.0%
5	Dili	70	57.9%	49	40.5%	2	1.7%	0	0.0%	121	100.0%
6	Lospalos	11	50.0%	11	50.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	2	11.8%	15	88.2%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	2	10.0%	18	90.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	7	36.8%	12	63.2%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	20	80.0%	5	20.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	9	52.9%	8	47.1%	0	0.0%	0	0.0%	17	100.0%
12	Same	10	41.7%	13	54.2%	0	0.0%	1	4.2%	24	100.0%
13	Suai	9	36.0%	16	64.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	8	32.0%	17	68.0%	0	0.0%	0	0.0%	25	100.0%
15	Maubisse	13	54.2%	4	16.7%	0	0.0%	7	29.2%	24	100.0%
Total		186	44.1%	216	51.2%	12	2.8%	8	1.9%	422	100.0%

17. How long does it take you to get to your main source of water?

No.	Town	a) In premises		b) - 15 min.		c) 15 - 30 min.		d) 30 min. +		e) Don't know		Total	
1	Aileu	2	8.7%	9	39.1%	2	8.7%	8	34.8%	2	8.7%	23	100%
2	Liquica	8	44.4%	4	22.2%	1	5.6%	5	27.8%	0	0.0%	18	100%
3	Manatuto	2	8.3%	20	83.3%	2	8.3%	0	0.0%	0	0.0%	24	100%
4	Baucau	0	0.0%	9	45.0%	10	50.0%	1	5.0%	0	0.0%	20	100%
5	Dili	10	8.1%	95	77.2%	3	2.4%	15	12.2%	0	0.0%	123	100%
6	Lospalos	2	9.1%	19	86.4%	1	4.5%	0	0.0%	0	0.0%	22	100%
7	Viqueque	0	0.0%	6	35.3%	0	0.0%	11	64.7%	0	0.0%	17	100%
8	Gleno	0	0.0%	16	80.0%	4	20.0%	0	0.0%	0	0.0%	20	100%
9	Ermera	1	5.3%	4	21.1%	0	0.0%	14	73.7%	0	0.0%	19	100%
10	Atauro	0	0.0%	25	100.0%	0	0.0%	0	0.0%	0	0.0%	25	100%
11	Maliana	1	5.9%	2	11.8%	2	11.8%	12	70.6%	0	0.0%	17	100%
12	Same	5	20.0%	15	60.0%	5	20.0%	0	0.0%	0	0.0%	25	100%
13	Suai	1	4.0%	13	52.0%	2	8.0%	9	36.0%	0	0.0%	25	100%
14	Ainaro	1	4.0%	11	44.0%	4	16.0%	9	36.0%	0	0.0%	25	100%
15	Maubisse	3	12.5%	13	54.2%	7	29.2%	1	4.2%	0	0.0%	24	100%
Total		36	8.4%	261	61.1%	43	10.1%	85	19.9%	2	0.5%	427	100%

18. If the water from main source does not come, what type of alternative water supply is available to the house?

No.	Town	a) Individual		b) Hydrant		c) Water Tanker		d) Dug Well		e) Hand Pump		f) Borehole	
1	Aileu	0	0.0%	0	0.0%	0	0.0%	4	17.4%	0	0.0%	0	0.0%
2	Liquica	0	0.0%	1	5.6%	3	16.7%	3	16.7%	0	0.0%	1	5.6%

3	Manatuto	0	0.0%	0	0.0%	0	0.0%	6	25.0%	2	8.3%	0	0.0%
4	Baucau	0	0.0%	0	0.0%	9	45.0%	0	0.0%	0	0.0%	0	0.0%
5	Dili	1	0.8%	10	8.1%	0	0.0%	20	16.1%	58	46.8%	1	0.8%
6	Lospalos	2	9.1%	1	4.5%	0	0.0%	10	45.5%	4	18.2%	1	4.5%
7	Viqueque	0	0.0%	4	23.5%	0	0.0%	3	17.6%	2	11.8%	0	0.0%
8	Gleno	0	0.0%	0	0.0%	0	0.0%	0	0.0%	6	30.0%	0	0.0%
9	Ermera	1	5.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
10	Atauro	0	0.0%	2	8.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
11	Maliana	0	0.0%	0	0.0%	0	0.0%	4	23.5%	0	0.0%	0	0.0%
12	Same	0	0.0%	2	8.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
13	Suai	0	0.0%	3	12.0%	0	0.0%	7	28.0%	0	0.0%	0	0.0%
14	Ainaro	0	0.0%	4	16.0%	0	0.0%	0	0.0%	1	4.0%	0	0.0%
15	Maubisse	0	0.0%	6	25.0%	0	0.0%	1	4.2%	0	0.0%	0	0.0%
Total		4	0.9%	33	7.7%	12	2.8%	58	13.6%	73	17.1%	3	0.7%

No.	Town	g) River		h) Spring		i) Others		j) Don't know		Total	
1	Aileu	15	65.2%	4	17.4%	0	0.0%	0	0.0%	23	100.0%
2	Liquica	3	16.7%	6	33.3%	1	5.6%	0	0.0%	18	100.0%
3	Manatuto	15	62.5%	0	0.0%	1	4.2%	0	0.0%	24	100.0%
4	Baucau	0	0.0%	11	55.0%	0	0.0%	0	0.0%	20	100.0%
5	Dili	1	0.8%	3	2.4%	28	22.6%	2	1.6%	124	100.0%
6	Lospalos	2	9.1%	2	9.1%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	3	17.6%	1	5.9%	4	23.5%	0	0.0%	17	100.0%
8	Gleno	10	50.0%	4	20.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	3	15.8%	9	47.4%	6	31.6%	0	0.0%	19	100.0%
10	Atauro	0	0.0%	14	56.0%	7	28.0%	2	8.0%	25	100.0%
11	Maliana	2	11.8%	7	41.2%	4	23.5%	0	0.0%	17	100.0%
12	Same	3	12.5%	19	79.2%	0	0.0%	0	0.0%	24	100.0%
13	Suai	4	16.0%	5	20.0%	6	24.0%	0	0.0%	25	100.0%
14	Ainaro	2	8.0%	8	32.0%	10	40.0%	0	0.0%	25	100.0%
15	Maubisse	6	25.0%	11	45.8%	0	0.0%	0	0.0%	24	100.0%
Total		69	16.2%	104	24.4%	67	15.7%	4	0.9%	427	100.0%

19. What kind of sanitary facilities do you use?

No.	Town	a)		b)		c)		d)		e)	
1	Aileu	9	39.1%	7	30.4%	5	21.7%	0	0.0%	0	0.0%
2	Liquica	0	0.0%	6	33.3%	6	33.3%	3	16.7%	0	0.0%
3	Manatuto	8	33.3%	0	0.0%	13	54.2%	1	4.2%	2	8.3%
4	Baucau	0	0.0%	3	15.0%	10	50.0%	1	5.0%	3	15.0%
5	Dili	3	2.4%	47	37.6%	69	55.2%	3	2.4%	2	1.6%
6	Lospalos	1	4.5%	3	13.6%	17	77.3%	0	0.0%	0	0.0%
7	Viqueque	0	0.0%	11	64.7%	6	35.3%	0	0.0%	0	0.0%
8	Gleno	0	0.0%	2	10.5%	17	89.5%	0	0.0%	0	0.0%
9	Ermera	0	0.0%	15	78.9%	3	15.8%	1	5.3%	0	0.0%
10	Atauro	0	0.0%	3	12.0%	13	52.0%	9	36.0%	0	0.0%
11	Maliana	2	11.8%	12	70.6%	3	17.6%	0	0.0%	0	0.0%
12	Same	1	4.0%	1	4.0%	21	84.0%	0	0.0%	1	4.0%
13	Suai	0	0.0%	12	48.0%	9	36.0%	4	16.0%	0	0.0%

14	Ainaro	0	0.0%	12	48.0%	10	40.0%	1	4.0%	0	0.0%
15	Maubisse	6	25.0%	0	0.0%	17	70.8%	0	0.0%	1	4.2%
Total		30	7.0%	134	31.3%	219	51.2%	23	5.4%	9	2.1%

No	Town	f)		g)		h)		Total	
1	Aileu	0	0.0%	2	8.7%	0	0.0%	23	100.0%
2	Liquica	1	5.6%	1	5.6%	1	5.6%	18	100.0%
3	Manatuto	0	0.0%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	3	15.0%	0	0.0%	0	0.0%	20	100.0%
5	Dili	0	0.0%	1	0.8%	0	0.0%	125	100.0%
6	Lospalos	1	4.5%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	0	0.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	0	0.0%	0	0.0%	0	0.0%	19	100.0%
9	Ermera	0	0.0%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	0	0.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	0	0.0%	0	0.0%	0	0.0%	17	100.0%
12	Same	0	0.0%	1	4.0%	0	0.0%	25	100.0%
13	Suai	0	0.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	0	0.0%	2	8.0%	0	0.0%	25	100.0%
15	Maubisse	0	0.0%	0	0.0%	0	0.0%	24	100.0%
Total		5	1.2%	7	1.6%	1	0.2%	428	100.0%

* *a) Sewage connection b) Septic tank for household c) Pit latrine for household d) Oriental type for household e) Neighbour's latrine f) Communal latrine g) Wilderness / countryside / fields h) Others*

20. From which source is water taken for the use below?

a.) For drinking

No.	Town	a) Individual		b) Hydrant		c) Water Tanker		d) Dug Well		e) Hand Pump	
1	Aileu	5	21.7%	3	13.0%	0	0.0%	3	13.0%	0	0.0%
2	Liquica	10	55.6%	2	11.1%	1	5.6%	3	16.7%	0	0.0%
3	Manatuto	0	0.0%	1	4.2%	0	0.0%	14	58.3%	9	37.5%
4	Baucau	2	10.0%	11	55.0%	5	25.0%	0	0.0%	0	0.0%
5	Dili	17	13.6%	10	8.0%	1	0.8%	21	16.8%	61	48.8%
6	Lospalos	10	45.5%	1	4.5%	0	0.0%	10	45.5%	1	4.5%
7	Viqueque	6	35.3%	8	47.1%	0	0.0%	1	5.9%	2	11.8%
8	Gleno	11	55.0%	7	35.0%	0	0.0%	2	10.0%	0	0.0%
9	Ermera	1	5.3%	13	68.4%	0	0.0%	0	0.0%	0	0.0%
10	Atauro	20	80.0%	5	20.0%	0	0.0%	0	0.0%	0	0.0%
11	Maliana	2	11.8%	2	11.8%	0	0.0%	12	70.6%	0	0.0%
12	Same	17	68.0%	6	24.0%	0	0.0%	0	0.0%	0	0.0%
13	Suai	5	20.0%	10	40.0%	0	0.0%	9	36.0%	1	4.0%
14	Ainaro	7	28.0%	13	52.0%	0	0.0%	0	0.0%	4	16.0%
15	Maubisse	11	45.8%	1	4.2%	0	0.0%	3	12.5%	0	0.0%
Total		124	28.9%	93	21.7%	7	1.6%	78	18.2%	78	18.2%

No.	Town	f) Borehole		g) River		h) Stream		i) Others		Total	
1	Aileu	0	0.0%	9	39.1%	3	13.0%	0	0.0%	23	100.0%

2	Liquica	0	0.0%	0	0.0%	1	5.6%	1	5.6%	18	100.0%
3	Manatuto	0	0.0%	0	0.0%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	0	0.0%	0	0.0%	2	10.0%	0	0.0%	20	100.0%
5	Dili	11	8.8%	0	0.0%	2	1.6%	2	1.6%	125	100.0%
6	Lospalos	0	0.0%	0	0.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	0	0.0%	0	0.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	0	0.0%	0	0.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	0	0.0%	0	0.0%	5	26.3%	0	0.0%	19	100.0%
10	Atauro	0	0.0%	0	0.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	0	0.0%	1	5.9%	0	0.0%	0	0.0%	17	100.0%
12	Same	0	0.0%	0	0.0%	2	8.0%	0	0.0%	25	100.0%
13	Suai	0	0.0%	0	0.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	0	0.0%	0	0.0%	1	4.0%	0	0.0%	25	100.0%
15	Maubisse	0	0.0%	0	0.0%	9	37.5%	0	0.0%	24	100.0%
Total		11	2.6%	10	2.3%	25	5.8%	3	0.7%	429	100.0%

b.) For laundry

No.	Town	a) Individual		b) Hydrant		c) Water Tanker		d) Dug Well		e) Hand Pump	
1	Aileu	5	21.7%	3	13.0%	0	0.0%	3	13.0%	0	0.0%
2	Liquica	10	55.6%	2	11.1%	1	5.6%	3	16.7%	0	0.0%
3	Manatuto	0	0.0%	1	4.2%	0	0.0%	13	54.2%	10	41.7%
4	Baucau	2	10.0%	10	50.0%	5	25.0%	0	0.0%	0	0.0%
5	Dili	15	12.0%	10	8.0%	1	0.8%	21	16.8%	63	50.4%
6	Lospalos	10	45.5%	1	4.5%	0	0.0%	10	45.5%	1	4.5%
7	Viqueque	6	35.3%	7	41.2%	0	0.0%	2	11.8%	2	11.8%
8	Gleno	11	55.0%	6	30.0%	0	0.0%	2	10.0%	0	0.0%
9	Ermera	1	5.3%	13	68.4%	0	0.0%	0	0.0%	0	0.0%
10	Atauro	20	80.0%	5	20.0%	0	0.0%	0	0.0%	0	0.0%
11	Maliana	2	11.8%	1	5.9%	0	0.0%	13	76.5%	0	0.0%
12	Same	17	68.0%	6	24.0%	0	0.0%	0	0.0%	0	0.0%
13	Suai	5	20.0%	10	40.0%	0	0.0%	9	36.0%	1	4.0%
14	Ainaro	7	28.0%	13	52.0%	0	0.0%	0	0.0%	4	16.0%
15	Maubisse	11	45.8%	1	4.2%	0	0.0%	3	12.5%	0	0.0%
Total		122	28.4%	89	20.7%	7	1.6%	79	18.4%	81	18.9%

No.	Town	f) Borehole		g) River		h) Stream		i) Others		Total	
1	Aileu	0	0.0%	8	34.8%	4	17.4%	0	0.0%	23	100.0%
2	Liquica	0	0.0%	1	5.6%	0	0.0%	1	5.6%	18	100.0%
3	Manatuto	0	0.0%	0	0.0%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	0	0.0%	1	5.0%	2	10.0%	0	0.0%	20	100.0%
5	Dili	11	8.8%	0	0.0%	2	1.6%	2	1.6%	125	100.0%
6	Lospalos	0	0.0%	0	0.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	0	0.0%	0	0.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	0	0.0%	1	5.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	0	0.0%	0	0.0%	5	26.3%	0	0.0%	19	100.0%
10	Atauro	0	0.0%	0	0.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	0	0.0%	1	5.9%	0	0.0%	0	0.0%	17	100.0%
12	Same	0	0.0%	0	0.0%	2	8.0%	0	0.0%	25	100.0%

13	Suai	0	0.0%	0	0.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	0	0.0%	0	0.0%	1	4.0%	0	0.0%	25	100.0%
15	Maubisse	0	0.0%	1	4.2%	8	33.3%	0	0.0%	24	100.0%
Total		11	2.6%	13	3.0%	24	5.6%	3	0.7%	429	100.0%

c.) For Bathing

No.	Town	a) Individual		b) Hydrant		c) Water Tanker		d) Dug Well		e) Hand Pump	
1	Aileu	5	21.7%	3	13.0%	0	0.0%	3	13.0%	0	0.0%
2	Liquica	10	55.6%	2	11.1%	1	5.6%	3	16.7%	0	0.0%
3	Manatuto	0	0.0%	1	4.2%	0	0.0%	14	58.3%	9	37.5%
4	Baucau	2	10.0%	10	50.0%	5	25.0%	0	0.0%	0	0.0%
5	Dili	15	12.0%	10	8.0%	1	0.8%	21	16.8%	63	50.4%
6	Lospalos	10	45.5%	1	4.5%	0	0.0%	10	45.5%	1	4.5%
7	Viqueque	6	35.3%	7	41.2%	0	0.0%	2	11.8%	2	11.8%
8	Gleno	11	55.0%	6	30.0%	0	0.0%	2	10.0%	0	0.0%
9	Ermera	1	5.3%	13	68.4%	0	0.0%	0	0.0%	0	0.0%
10	Atauro	20	80.0%	5	20.0%	0	0.0%	0	0.0%	0	0.0%
11	Maliana	2	11.8%	1	5.9%	0	0.0%	13	76.5%	0	0.0%
12	Same	17	68.0%	6	24.0%	0	0.0%	0	0.0%	0	0.0%
13	Suai	5	20.0%	9	36.0%	0	0.0%	10	40.0%	1	4.0%
14	Ainaro	7	28.0%	13	52.0%	0	0.0%	0	0.0%	4	16.0%
15	Maubisse	11	45.8%	1	4.2%	0	0.0%	3	12.5%	0	0.0%
Total		122	28.4%	88	20.5%		1.6%	81	18.9%	80	18.6%

No	Town	f) Borehole		g) River		h) Stream		i) Others		Total	
1	Aileu	0	0.0%	8	34.8%	4	17.4%	0	0.0%	23	100.0%
2	Liquica	0	0.0%	0	0.0%	1	5.6%	1	5.6%	18	100.0%
3	Manatuto	0	0.0%	0	0.0%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	0	0.0%	1	5.0%	2	10.0%	0	0.0%	20	100.0%
5	Dili	11	8.8%	0	0.0%	2	1.6%	2	1.6%	125	100.0%
6	Lospalos	0	0.0%	0	0.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	0	0.0%	0	0.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	0	0.0%	1	5.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	0	0.0%	0	0.0%	5	26.3%	0	0.0%	19	100.0%
10	Atauro	0	0.0%	0	0.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	0	0.0%	1	5.9%	0	0.0%	0	0.0%	17	100.0%
12	Same	0	0.0%	0	0.0%	2	8.0%	0	0.0%	25	100.0%
13	Suai	0	0.0%	0	0.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	0	0.0%	0	0.0%	1	4.0%	0	0.0%	25	100.0%
15	Maubisse	0	0.0%	0	0.0%	9	37.5%	0	0.0%	24	100.0%
Total		11	2.6%	11	2.6%	26	6.1%	3	0.7%	429	100.0%

d.) For latrine

No	Town	a) Individual		b) Hydrant		c) Water tanker		d) Dug well		e) Hand pump	
1	Aileu	5	33.3 %	3	20.0%	0	0.0%	3	20.0%	0	0.0%
2	Liquica	10	58.8%	2	11.8%	0	0.0%	4	23.5%	0	0.0%
3	Manatuto	0	0.0%	1	4.3%	0	0.0%	14	60.9%	8	34.8%

4	Baucau	2	10.0%	10	50.0%	5	25.0%	0	0.0%	0	0.0%
5	Dili	17	13.8%	10	8.1%	1	0.8%	21	17.1%	59	48.0%
6	Lospalos	9	42.9%	1	4.8%	0	0.0%	10	47.6%	1	4.8%
7	Viqueque	6	35.3%	7	41.2%	0	0.0%	2	11.8%	2	11.8%
8	Gleno	11	57.9%	6	31.6%	0	0.0%	1	5.3%	0	0.0%
9	Ermera	1	5.3%	13	68.4%	0	0.0%	0	0.0%	0	0.0%
10	Atauro	17	81.0%	4	19.0%	0	0.0%	0	0.0%	0	0.0%
11	Maliana	2	11.8%	1	5.9%	0	0.0%	13	76.5%	0	0.0%
12	Same	17	68.0%	6	24.0%	0	0.0%	0	0.0%	0	0.0%
13	Suai	4	18.2%	9	40.9%	0	0.0%	8	36.4%	1	4.5%
14	Ainaro	7	29.2%	12	50.0%	0	0.0%	0	0.0%	4	16.7%
15	Maubisse	11	45.8%	1	4.2%	0	0.0%	3	12.5%	0	0.0%
Total		119	29.2%	86	21.1%	6	1.5%	79	19.4%	75	18.4%

No	Town	f) Borehole		g) River		h) Stream		i) Others		Total	
1	Aileu	0	0.0%	0	0.0%	4	26.7%	0	0.0%	15	100.0%
2	Liquica	0	0.0%	0	0.0%	0	0.0%	1	5.9%	17	100.0%
3	Manatuto	0	0.0%	0	0.0%	0	0.0%	0	0.0%	23	100.0%
4	Baucau	0	0.0%	1	5.0%	2	10.0%	0	0.0%	20	100.0%
5	Dili	11	8.9%	0	0.0%	2	1.6%	2	1.6%	123	100.0%
6	Lospalos	0	0.0%	0	0.0%	0	0.0%	0	0.0%	21	100.0%
7	Viqueque	0	0.0%	0	0.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	0	0.0%	1	5.3%	0	0.0%	0	0.0%	19	100.0%
9	Ermera	0	0.0%	0	0.0%	5	26.3%	0	0.0%	19	100.0%
10	Atauro	0	0.0%	0	0.0%	0	0.0%	0	0.0%	21	100.0%
11	Maliana	0	0.0%	1	5.9%	0	0.0%	0	0.0%	17	100.0%
12	Same	0	0.0%	0	0.0%	2	8.0%	0	0.0%	25	100.0%
13	Suai	0	0.0%	0	0.0%	0	0.0%	0	0.0%	22	100.0%
14	Ainaro	0	0.0%	0	0.0%	1	4.2%	0	0.0%	24	100.0%
15	Maubisse	0	0.0%	1	4.2%	8	33.3%	0	0.0%	24	100.0%
Total		11	2.7%	4	1.0%	24	5.9%	3	0.7%	407	100.0%

21. If water supply system will be connected to your house, are you willing to pay the cost of the service for the maintenance of the water supply system?

No	Town	a) Yes		b) No		c) Don't know		Total	
1	Aileu	16	69.6%	7	30.4%	0	0.0%	23	100.0%
2	Liquica	18	94.7%	1	5.3%	0	0.0%	19	100.0%
3	Manatuto	22	91.7%	2	8.3%	0	0.0%	24	100.0%
4	Baucau	20	100.0%	0	0.0%	0	0.0%	20	100.0%
5	Dili	118	95.2%	2	1.6%	4	3.2%	124	100.0%
6	Lospalos	22	100.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	17	100.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	20	100.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	19	100.0%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	19	76.0%	0	0.0%	6	24.0%	25	100.0%
11	Maliana	17	100.0%	0	0.0%	0	0.0%	17	100.0%
12	Same	22	88.0%	2	8.0%	1	4.0%	25	100.0%
13	Suai	25	100.0%	0	0.0%	0	0.0%	25	100.0%

14	Ainaro	23	92.0%	1	4.0%	1	4.0%	25	100.0%
15	Maubisse	21	87.5%	0	0.0%	3	12.5%	24	100.0%
Total		399	93.0%	15	3.5%	15	3.5%	429	100.0%

22. Is water stored in covered vessels?

No	Town	a) Yes		b) No		c) Don't know		Total	
1	Aileu	23	100.0%	0	0.0%	0	0.0%	23	100.0%
2	Liquica	18	100.0%	0	0.0%	0	0.0%	18	100.0%
3	Manatuto	24	100.0%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	20	100.0%	0	0.0%	0	0.0%	20	100.0%
5	Dili	124	100.0%	0	0.0%	0	0.0%	124	100.0%
6	Lospalos	22	100.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	17	100.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	20	100.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	19	100.0%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	25	100.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	17	100.0%	0	0.0%	0	0.0%	17	100.0%
12	Same	25	100.0%	0	0.0%	0	0.0%	25	100.0%
13	Suai	25	100.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	24	96.0%	1	4.0%	0	0.0%	25	100.0%
15	Maubisse	24	100.0%	0	0.0%	0	0.0%	24	100.0%
Total		427	99.8%	1	0.2%	0	0.0%	428	100.0%

23. Is drinking taken from the storage vessel in such a way that hands, cups and other objects cannot contaminate the water ?

No	Town	a) Yes		b) No		c) Don't know		Total	
1	Aileu	23	100.0%	0	0.0%	0	0.0%	23	100.0%
2	Liquica	18	100.0%	0	0.0%	0	0.0%	18	100.0%
3	Manatuto	24	100.0%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	15	75.0%	5	25.0%	0	0.0%	20	100.0%
5	Dili	121	96.8%	4	3.2%	0	0.0%	125	100.0%
6	Lospalos	22	100.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	17	100.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	20	100.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	19	100.0%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	25	100.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	17	100.0%	0	0.0%	0	0.0%	17	100.0%
12	Same	25	100.0%	0	0.0%	0	0.0%	25	100.0%
13	Suai	25	100.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	23	92.0%	2	8.0%	0	0.0%	25	100.0%
15	Maubisse	24	100.0%	0	0.0%	0	0.0%	24	100.0%
Total		418	97.4%	11	2.6%	0	0.0%	429	100.0%

24. Are hands washed before eating food?

No	Town	a) Yes		b) No		c) Don't know		Total	
1	Aileu	23	100.0%	0	0.0%	0	0.0%	23	100.0%

2	Liquica	18	100.0%	0	0.0%	0	0.0%	18	100.0%
3	Manatuto	24	100.0%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	20	100.0%	0	0.0%	0	0.0%	20	100.0%
5	Dili	125	100.0%	0	0.0%	0	0.0%	125	100.0%
6	Lospalos	22	100.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	17	100.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	20	100.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	19	100.0%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	25	100.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	17	100.0%	0	0.0%	0	0.0%	17	100.0%
12	Same	25	100.0%	0	0.0%	0	0.0%	25	100.0%
13	Suai	25	100.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	25	100.0%	0	0.0%	0	0.0%	25	100.0%
15	Maubisse	23	95.8%	1	4.2%	0	0.0%	24	100.0%
Total		428	99.8%	1	0.2%	0	0.0%	429	100.0%

25. Are vegetables and fruits washed with clean water?

No	Town	a) Yes		b) No		c) Don't know		Total	
1	Aileu	23	100.0%	0	0.0%	0	0.0%	23	100.0%
2	Liquica	18	100.0%	0	0.0%	0	0.0%	18	100.0%
3	Manatuto	24	100.0%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	20	100.0%	0	0.0%	0	0.0%	20	100.0%
5	Dili	125	100.0%	0	0.0%	0	0.0%	125	100.0%
6	Lospalos	22	100.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	17	100.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	19	95.0%	0	0.0%	1	5.0%	20	100.0%
9	Ermera	19	100.0%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	25	100.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	17	100.0%	0	0.0%	0	0.0%	17	100.0%
12	Same	24	100.0%	0	0.0%	0	0.0%	24	100.0%
13	Suai	25	100.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	25	100.0%	0	0.0%	0	0.0%	25	100.0%
15	Maubisse	24	100.0%	0	0.0%	0	0.0%	24	100.0%
Total		427	99.8%	0	0.0%	1	0.2%	428	100.0%

26. Are kitchen utensils washed with safe water?

No	Town	a) Yes		b) No		c) Don't know		Total	
1	Aileu	23	100.0%	0	0.0%	0	0.0%	23	100.0%
2	Liquica	18	100.0%	0	0.0%	0	0.0%	18	100.0%
3	Manatuto	24	100.0%	0	0.0%	0	0.0%	24	100.0%
4	Baucau	19	100.0%	0	0.0%	0	0.0%	19	100.0%
5	Dili	125	100.0%	0	0.0%	0	0.0%	125	100.0%
6	Lospalos	22	100.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	17	100.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	20	100.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	19	100.0%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	25	100.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	17	100.0%	0	0.0%	0	0.0%	17	100.0%

12	Same	25	100.0%	0	0.0%	0	0.0%	25	100.0%
13	Suai	25	100.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	24	100.0%	0	0.0%	0	0.0%	24	100.0%
15	Maubisse	24	100.0%	0	0.0%	0	0.0%	24	100.0%
Total		427	100.0%	0	0.0%	0	0.0%	427	100.0%

27. Are sanitary facilities regularly cleaned and maintained?

No	Town	a) Yes		b) No		c) Don't know		Total	
1	Aileu	15	68.2%	7	31.8%	0	0.0%	22	100.0%
2	Liquica	18	100.0%	0	0.0%	0	0.0%	18	100.0%
3	Manatuto	22	91.7%	0	0.0%	2	8.3%	24	100.0%
4	Baucau	19	95.0%	1	5.0%	0	0.0%	20	100.0%
5	Dili	124	99.2%	1	0.8%	0	0.0%	125	100.0%
6	Lospalos	22	100.0%	0	0.0%	0	0.0%	22	100.0%
7	Viqueque	17	100.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	20	100.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	19	100.0%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	25	100.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	17	100.0%	0	0.0%	0	0.0%	17	100.0%
12	Same	24	96.0%	1	4.0%	0	0.0%	25	100.0%
13	Suai	25	100.0%	0	0.0%	0	0.0%	25	100.0%
14	Ainaro	24	100.0%	0	0.0%	0	0.0%	24	100.0%
15	Maubisse	24	100.0%	0	0.0%	0	0.0%	24	100.0%
Total		415	97.2%	10	2.3%	2	0.5%	427	100.0%

28. Are hands washed after defaecation?

No	Town	a) Yes		b) No		c) Don't know		Total	
1	Aileu	22	95.7%	1	4.3%	0	0.0%	23	100.0%
2	Liquica	18	100.0%	0	0.0%	0	0.0%	18	100.0%
3	Manatuto	22	91.7%	2	8.3%	0	0.0%	24	100.0%
4	Baucau	20	100.0%	0	0.0%	0	0.0%	20	100.0%
5	Dili	125	100.0%	0	0.0%	0	0.0%	125	100.0%
6	Lospalos	20	95.2%	0	0.0%	1	4.8%	21	100.0%
7	Viqueque	17	100.0%	0	0.0%	0	0.0%	17	100.0%
8	Gleno	20	100.0%	0	0.0%	0	0.0%	20	100.0%
9	Ermera	19	100.0%	0	0.0%	0	0.0%	19	100.0%
10	Atauro	25	100.0%	0	0.0%	0	0.0%	25	100.0%
11	Maliana	17	100.0%	0	0.0%	0	0.0%	17	100.0%
12	Same	23	95.8%	1	4.2%	0	0.0%	24	100.0%
13	Suai	24	100.0%	0	0.0%	0	0.0%	24	100.0%
14	Ainaro	25	100.0%	0	0.0%	0	0.0%	25	100.0%
15	Maubisse	23	100.0%	0	0.0%	0	0.0%	23	100.0%
Total		420	98.8%	4	0.9%	1	0.2%	425	100.0%

29. Are there any diseases occurred in the household in the last a year? (Multiple answers)

No	Town	a) Headache		b) Stomachache		c) Injury		d) Toothache		e) Diarrhea		f) Skin disease	
1	Aileu	14	60.9%	6	26.1%	1	4.3%	8	34.8%	10	43.5%	11	47.8%

2	Liquica	17	94.4%	8	44.4%	13	72.2%	12	66.7%	14	77.8%	13	72.2%
3	Manatuto	7	29.2%	4	16.7%	0	0.0%	4	16.7%	11	45.8%	12	50.0%
4	Baucau	16	80.0%	14	70.0%	8	40.0%	14	70.0%	15	75.0%	11	55.0%
5	Dili	83	66.4%	43	34.4%	36	28.8%	58	46.4%	54	43.2%	67	53.6%
6	Lospalos	12	54.5%	3	13.6%	0	0.0%	3	13.6%	9	40.9%	9	40.9%
7	Viqueque	17	100.0%	15	88.2%	14	82.4%	16	94.1%	16	94.1%	17	100.0%
8	Gleno	16	80.0%	11	55.0%	2	10.0%	8	40.0%	5	25.0%	9	45.0%
9	Ermera	18	94.7%	14	73.7%	7	36.8%	17	89.5%	15	78.9%	15	78.9%
10	Atauro	16	64.0%	12	48.0%	11	44.0%	11	44.0%	16	64.0%	19	76.0%
11	Maliana	14	82.4%	10	58.8%	7	41.2%	11	64.7%	8	47.1%	11	64.7%
12	Same	10	40.0%	0	0.0%	0	0.0%	2	8.0%	2	8.0%	12	48.0%
13	Suai	24	96.0%	17	68.0%	13	52.0%	15	60.0%	22	88.0%	16	64.0%
14	Ainaro	24	96.0%	13	52.0%	11	44.0%	13	52.0%	18	72.0%	14	56.0%
15	Maubisse	6	25.0%	0	0.0%	0	0.0%	0	0.0%	6	25.0%	13	54.2%
Total		294	68.5%	170	39.6%	123	28.7%	192	44.8%	221	51.5%	249	58.0%

No	Town	g) Fever		h) Malaria		i) Dengue		j) TB		k) Others		Number of Data
1	Aileu	16	69.6%	19	82.6%	14	60.9%	1	4.3%	3	13.0%	23
2	Liquica	5	27.8%	17	94.4%	16	88.9%	0	0.0%	4	22.2%	18
3	Manatuto	16	66.7%	16	66.7%	10	41.7%	1	4.2%	9	37.5%	24
4	Baucau	4	20.0%	19	95.0%	9	45.0%	0	0.0%	0	0.0%	20
5	Dili	73	58.4%	95	76.0%	56	44.8%	7	5.6%	25	20.0%	125
6	Lospalos	10	45.5%	12	54.5%	6	27.3%	0	0.0%	11	50.0%	22
7	Viqueque	15	88.2%	17	100.0%	13	76.5%	0	0.0%	0	0.0%	17
8	Gleno	17	85.0%	18	90.0%	13	65.0%	0	0.0%	18	90.0%	20
9	Ermera	18	94.7%	19	100.0%	13	68.4%	0	0.0%	2	10.5%	19
10	Atauro	17	68.0%	18	72.0%	16	64.0%	0	0.0%	14	56.0%	25
11	Maliana	17	100.0%	16	94.1%	8	47.1%	2	11.8%	5	29.4%	17
12	Same	10	40.0%	15	60.0%	0	0.0%	0	0.0%	17	68.0%	25
13	Suai	23	92.0%	23	92.0%	18	72.0%	1	4.0%	14	56.0%	25
14	Ainaro	17	68.0%	17	68.0%	16	64.0%	2	8.0%	14	56.0%	25
15	Maubisse	15	62.5%	17	70.8%	2	8.3%	1	4.2%	19	79.2%	24
Total		273	63.6%	338	78.8%	210	49.0%	15	3.5%	155	36.1%	429

30. What is the distance between hygienic facilities and dug well/hand pump/borehole to this house (by the interviewer's observation)

No	Town	Distance, m	Number of Data
1	Aileu	5.0	3
2	Liquica	67.7	2
3	Manatuto	74.8	23
4	Baucau	-	0
5	Dili	57.8	96
6	Lospalos	12.9	19
7	Viqueque	10.7	7
8	Gleno	8.8	6
9	Ermera	-	0
10	Atauro	-	0
11	Maliana	3.2	13

12	Same	-	0
13	Suai	37.0	12
14	Ainaro	36.8	6
15	Maubisse	28.3	3
Average		31.2	190