Town:	No. & Facility:	Year of	[•] Construction	Financed by:
Dili	21- Taibesi R	esevoir 19	97-1998	
Existina Condit	tion:	Photog	iraph:	
Structure: Reinfor	ced Concrete		···· ··· ····	
Shape: Rectangul	ar	Sec. 1		
Dimension: 4.0m	x 6.0m x 3.2m			1
Capacity: 30m ³		Stie.	i and	
Function:		Star		
Source of Water:	Kuluhun B		E LA	A CONTRACTOR OF THE OWNER
Ground level:				and the second second
Accessories:			1 State Stronger	
flow meter		1. 1. 15	ALS INTER TH	AL CALLER AND
washouts		A STATE		
			The alter	The second second
		3 Mary	THE MAN	
			State of the second second	A REAL
		the Country of Country	CONTRACTOR OF THE OWNER	Station Report of the party of the
				(Date: June 2000)
Evaluation:				•
Inadequate	size of washout is i	nstalled.		
This reservo	ir has no overflow,	no ventilation, and ap	parently with ina	adequate washout.
Rehabilitation F	Plan:			
1) Basic Considera	ation:			
2) Civil Work:				
Installation of	of level gauge, ladd	er, manhole, ventilato	ors	
3) Piping work				
Replacemer	nt of drain pipe by 6	inch GS pipe.		
4) Mechanical wor	<i>k:</i> none			
5) Electrical work:	none			
,				
6) Miscellaneous:	none			
of Mildeonaneedee	none			
Estimated cost:	:	Construction sch	edule:	Priority:
	200			A 0
094	»/8U			A-Z

Town:	No. & Facility:		Year of Construction	Financed by:
Dili	22 - Becora F	Resevoir	1995-96	-
Existing Condit	tion:		Photograph:	
Structure: Steel w	ith Vinyl Coating			
Shape: Circular			and the second	
Dimension: Ø14.6	Sm x 3m height		ANTA CANA	
Capacity: 500m ³	Ŭ			
Function:				Constant and
Source of Water:	Kuluhun A		and the second	
Ground level:				
Accessories;				The shares
level gauge				
ventilation				
overflow pip	100			は高齢などのなった。
washouts	65		AT A DOLLAR STORE	Cardina Contactor (C)
6 inch inlet a	and 8 inch outlet			A CONTRACTOR
0 11011 11101 0				
				(Date: June 2000)
Evaluation:				
Manual chlo	prinator not in use.L	evel gauge n	not working.	
Rehabilitation H	Plan:			
1) Basic Calculatio	<i>.</i>			
Minor repair	is required.			
2) Civil Work:	· · · · ·	-		
Level gauge	should be repaired	J.		
3) Piping work				
Installation of	of flow meter and co	ontroller		
Mechanical wor	rk: none			
5) Electrical work:	none			
6) Miscellaneous:	none			
		A		
Estimatea cost.	:	Construct	ion scheaule:	Priority:
US\$	7,314			A-2
1	· ·			

Town:	No. & Facility:		Year of Construction	Finar	nced by:
Dili	23 - Bedoisi F	Resevoir	1998		Bia Hula
Existing Condit	tion:		Photograph:	1	
Structure: Reinfor	ced Concrete		•		
Shape: Rectangul	ar				A Street
Dimension: 5.8m x	x 5.6m x 2.2m.			Contraction of the	A State
<i>Capacity:</i> 45m ³			hele ballant	KT:	· 1
Function:			NOT PL	-	A A A A
Source of Water:	Bedoisi well		No Ch	The second	Cher St.
Ground level:			Contraction of the second second	JAN	Contra to the
Accessories:			AR A		Sec. 1
overflow pip	e			-	
washouts			A Indiana and		
				1 2	
				202	- Andrews
			AUC 1	100	
				(Data	
Evaluation:				Uate	e. June ∠000)
No ventilatio	n & level dauge				
Water leak v	was seen coming fr	om the valve	9		
Water leak					
Rehabilitation F	Plan:				
1) Basic Calculatio	on				
Reservoir is	constructed close	to private ho	uses. For continuous use	in the	future, minor
rehabilitation	n is required.				
2) Civil Work:					
Construction	n of securtiy fence				
2) Dining works					
3) Piping Work?	f flow motor and a	ontrollar			
Installation C	of now meter and co	ontroller			
4) Mechanical wor	k' none				
+) Meenamear wor	K. Hone				
5) Electrical work:	none				
6) Miscellaneous:					
Installation of	of chlorine dosage	devices			
Estimated cost		Construct	ion schedule:		Priority:
1100	7 379				Δ-2
004	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				~~ _

Town:	No. & Facility:		Year of Construction	Financed by:
Dili	24 - Bidaumasa	ı Resevoir	1996-1997	,
Existing Condit	ion.		Photograph:	
Structure: Reinford	ced Concrete		r notograph.	
Shana: Postongul				
Shape. Rectangul				
Dimension: 5.0 m 3	x 5.0m x 2.0m		And the second second second	
Capacity: 30m				A DESCRIPTION
Function:			and the state	
Source of Water:	Bidau No.1deep we			STREET, SECURING
Ground level:			AS A SET TAX	A VANDA IN A VANDA
Accessories:				A A
overflow				ALTRICE AND
ventilation			CERT ANAL	
				MASKARE
				AND AND AND
				A HERVE
				TP-MEANAGEMENT SALASA
				(Date: June 2000)
Evaluation:				
Reservoir no	ot in use since the s	source of wa	ter is not in operation.	
Rehabilitation F	Plan:			
1) Basic Considera	ation:			
Minor rehab	ilitation is required.			
2) Civil Work:				
Construction	n of security fence			
3) Piping work				
Installation of	of flow meter and co	ontroller		
4) Mechanical wor	k: none			
,				
5) Electrical work:	none			
,				
6) Miscellaneous:				
Installation	of chlorine dosage (equipment		
motanation	. Shienno doodyo (- 40-21110111		
Estimated cost	-	Construct	ion schedule:	Priority.
		55.150 401		
US\$7	7,222			A-2

Town:	No. & Fac	ility:	Year	of Constru	uction	Financed by:	
Dili	25 - Propose	d Transmission	Main				
Background:	1		Phot	tograph:			
Dili service supply zone on fundame transmission planned to to reservoirs.	ackground: Dili service area is separated into 10 supply zones. This zoning system affects on fundamental change of water transmission. To this end, new mains are planned to be installed from the wells to reservoirs.			ograph.			
						(Date:	
Evaluation:			•			•	
Rehabilitation	Plan:						
1) Basic Consider	ation			the state	. 1.1		
Size of pipe	s required fo	or water transm	NSSION IS ES	stimated from	n Hazel	n-William tormula.	or
field surveys	s subsequen	tly carried out.				n opograpnical map	, 01
		,					
2) Civii vvork: non	ie						
3) Piping work Following pi	pes are to be	e installed:					
Zone	from	to	Dia.(mm)	Length (m)		Remark	
Comoro DE	Comoro D	Comoro Res	200	1 025	- Existi	ing 200mm x 1,405 ma	lin
Comoro B	Comoro E		200 200	1,035	- Existi	ing 200mm x 2 160 ma	in
Bemos	-		-	-			
Central	Comoro A	Dili WTP	250 250	100 200	- Existi	ing 250mm x 5,290 ma	in
Lahane Kulubup C	- Kuluhun C	- Taibesi Pos	- 150	-			
Kuluhun B	Kuluhun B	Becusi Res.	200	1,290			
Kuluhun A	-	-	-	-	- Existi	ing 150mm x 2,500 ma	in
Benemauk	- Dideu 2	- Didou 0	-	-	Est-4	ng 150mm v 050 m	
Bidau 1&3	BIOSO 3	BIOAU 2	150	500	- ⊨xisti	ing 150mm x 350 main	
4) Miscellaneous: none							
Estimated cost	:	Const	truction s	chedule:		Priority:	
US\$3	50,000					A-1	

	NO. & Faci	iity:	year o	of Constructio	n Final	nced by:	
Dili	26 - Propose	d Distribution I	Main				
Background:	•		Photo	graph:			
Dili service	area is separa	ated into 10					
supply zone	s, resulting in	1					
change of w	ater distributi	on. To this er	nd,				
new distribu	ition mains ar	e to be instal	led				
from the res	ervoirs to sup	oply zones					
					(Data		
Evaluation					Uale	<u>, </u>	
Pohabilitation	Plan						
1) Pasia Consider	- Iall. ation:						
1) Dasic Consider	auon. e required for	watar diatrib	ution is based	d on computariz	ad dictri	bution pipo	
Size of pipe	s required for		d lovel of eac	h planned faciliti		bution pipe	
topographic	al man or fiel	ld surveys su	bsequently c	arried out	es ale c		
	topographical map, or field surveys subsequently carried out.						
topographio	• *		, ,				
2) Civil Work: non		,					
2) Civil Work: non	e		. ,				
2) Civil Work: non	le	ŗ					
2) Civil Work: non	e	,					
2) Civil Work: non 3) Piping work	e	ŗ					
2) Civil Work: non 3) Piping work Zone	from	to	Dia.(mm)	Lenath (m)		Remarks	
2) Civil Work: non 3) Piping work Zone Comoro DE	from	to -	Dia.(mm)	Length (m)		Remarks	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B	from - Aspal Goreng Re	to - Existing main	Dia.(mm) - 200	Length (m) - 120		Remarks	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos	IE from - Aspal Goreng Re -	to - Existing main -	Dia.(mm) - 200 -	Length (m) - 120 -		Remarks	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos Central	from - Aspal Goreng Re - Central Res	to - Existing main - Existing main	Dia.(mm) - 200 - 250	Length (m) - 120 - 40		Remarks	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos Central	from - Aspal Goreng Re - Central Res	to - Existing main - Existing main	Dia.(mm) - 200 - 250 300	Length (m) - 120 - 40 200		Remarks	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos Central Lahane	from - Aspal Goreng Re - Central Res	to - Existing main - Existing main	Dia.(mm) - 200 - 250 300 -	Length (m) - 120 - 40 200 -		Remarks	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos Central Lahane Kuluhun C	from - Aspal Goreng Re - Central Res - Taibesi Res	to - Existing main - Existing main - Existing main	Dia.(mm) - 200 - 250 300 - 150	Length (m) - 120 - 40 200 - 50		Remarks	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun B	from - Aspal Goreng Re - Central Res - Taibesi Res Becusi Res	to - Existing main - Existing main - Existing main Existing main	Dia.(mm) - 200 - 250 300 - 150 200	Length (m) - 120 - 40 200 - 50 220		Remarks	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun B Kuluhun A	from - Aspal Goreng Re - Central Res - Taibesi Res Becusi Res.	to - Existing main - Existing main Existing main Existing main	Dia.(mm) - 200 - 250 300 - 150 200 -	Length (m) - 120 - 40 200 - 50 220 -	Existin	Remarks	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun B Kuluhun A Benemauk	from - Aspal Goreng Re - Central Res - Taibesi Res Becusi Res. -	to - Existing main - Existing main Existing main Existing main -	Dia.(mm) - 200 - 250 300 - 150 200 -	Length (m) - 120 - 40 200 - 50 220 - -	Existin	Remarks g Dia150 x 2,500m	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun B Kuluhun A Benemauk Bidau 1&3	from - Aspal Goreng Re - Central Res - Taibesi Res Becusi Res. - - Bidau 1	to - Existing main - Existing main Existing main Existing main - Existing main - Bidaumasa	Dia.(mm) - 200 - 250 300 - 150 200 - -	Length (m) - 120 - 40 200 - 50 220 - 50 220 - -	Existin	<u>Remarks</u> g Dia150 x 2,500m	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun A Benemauk Bidau 1&3	from - Aspal Goreng Re - Central Res - Taibesi Res Becusi Res. - - Bidau 1	to - Existing main - Existing main Existing main Existing main - Existing main - Bidaumasaı	Dia.(mm) - 200 - 250 300 - 150 200 - - - -	Length (m) - 120 - 40 200 - 50 220 - 50 220 - - 50 220 -	Existin	Remarks g Dia150 x 2,500m g Dia150 x 350m	
2) Civil Work: non 3) Piping work Zone Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun B Kuluhun A Benemauk Bidau 1&3	from - Aspal Goreng Re - Central Res - Taibesi Res Becusi Res. - - Bidau 1	to - Existing main - Existing main Existing main Existing main - Existing main Bidaumasau	Dia.(mm) - 200 - 250 300 - 150 200 - - - -	Length (m) - 120 - 40 200 - 50 220 - - - - -	Existin	Remarks g Dia150 x 2,500m g Dia150 x 350m	
2) Civil Work: non 3) Piping work Zone Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun B Kuluhun A Benemauk Bidau 1&3	from - Aspal Goreng Re - Central Res - Taibesi Res Becusi Res. - - Bidau 1	to - Existing main - Existing main Existing main Existing main - Bidaumasat	Dia.(mm) - 200 - 250 300 - 150 200 - - - -	Length (m) - 120 - 40 200 - 50 220 - - - -	Existin	Remarks g Dia150 x 2,500m g Dia150 x 350m	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun B Kuluhun A Benemauk Bidau 1&3	from - Aspal Goreng Re - Central Res - Taibesi Res Becusi Res. - - Bidau 1	to - Existing main - Existing main Existing main Existing main - Existing main - Bidaumasa	Dia.(mm) - 200 - 250 300 - 150 200 - - -	Length (m) - 120 - 40 200 - 50 220 - - -	Existin	<u>Remarks</u> g Dia150 x 2,500m g Dia150 x 350m	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun B Kuluhun A Benemauk <u>Bidau 1&3</u> 6) Miscellaneous:	from - Aspal Goreng Re - Central Res Becusi Res. - Bidau 1	to - Existing main - Existing main Existing main - Existing main - Bidaumasat	Dia.(mm) - 200 - 250 300 - 150 200 - - -	Length (m) - 120 - 40 200 - 50 220 - - - -	Existin Existin	Remarks g Dia150 x 2,500m g Dia150 x 350m	
2) Civil Work: non 3) Piping work Zone Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun A Benemauk Bidau 1&3 6) Miscellaneous:	from - Aspal Goreng Re - Central Res Becusi Res Becusi Res. - Bidau 1	to - Existing main - Existing main Existing main - Existing main - Bidaumasau	Dia.(mm) - 200 - 250 300 - 150 200 - - -	Length (m) - 120 - 40 200 - 50 220 - - - -	Existin Existin	Remarks g Dia150 x 2,500m g Dia150 x 350m	
2) Civil Work: non 3) Piping work Zone Comoro DE Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun A Benemauk Bidau 1&3 6) Miscellaneous:	from - Aspal Goreng Re - Central Res - Taibesi Res Becusi Res. - Bidau 1	to - Existing main - Existing main Existing main Existing main - Bidaumasat	Dia.(mm) - 200 - 250 300 - 150 200 - - -	Length (m) - 120 - 40 200 - 50 220 - - - -	Existin	Remarks g Dia150 x 2,500m g Dia150 x 350m	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun B Kuluhun A Benemauk Bidau 1&3 6) Miscellaneous:	from - Aspal Goreng Re - Central Res Becusi Res Becusi Res. - Bidau 1	to - Existing main - Existing main Existing main - Bidaumasat	Dia.(mm) - 200 - 250 300 - 150 200 - - -	Length (m) - 120 - 40 200 - 50 220 - - - -	Existin	Remarks g Dia150 x 2,500m g Dia150 x 350m	
2) Civil Work: non 3) Piping work <u>Zone</u> Comoro DE Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun A Benemauk <u>Bidau 1&3</u> 6) Miscellaneous: Estimated cost	from Aspal Goreng Re Central Res Becusi Res Becusi Res. Bidau 1	to - Existing main - Existing main Existing main - Bidaumasau	Dia.(mm) - 200 - 250 300 - 150 200 - - - -	Length (m) - 120 - 40 200 - 50 220 - - - -	Existin	Remarks g Dia150 x 2,500m g Dia150 x 350m	
2) Civil Work: non 3) Piping work Zone Comoro DE Comoro DE Comoro B Bemos Central Lahane Kuluhun C Kuluhun A Benemauk Bidau 1&3 6) Miscellaneous: Estimated cost US\$7	from Aspal Goreng Re Central Res Becusi Res Becusi Res. Bidau 1	to - Existing main - Existing main Existing main - Bidaumasau	Dia.(mm) - 200 - 250 300 - 150 200 - - - -	Length (m) - 120 - 40 200 - 50 220 - - - - -	Existin	Remarks g Dia150 x 2,500m g Dia150 x 350m Priority: A-1	

Town	No. & Facility:		Year of Construction	Finar	nced by:		
Dili	27 - Proposed Pipe	Reticulation					
Existina Condit	tion:		Photograph:				
Facility: Water dis Materials: AS, GS DCI, HDPE for new	tribution and supply for old pipes, and w pipes	/ to the cons GS, PVC,	mrs.				
Length: Approxim	Length: Approximately 350 km length of pipes						
installed in total ind	nstalled in total including those of 2 inch						
Accessories:							
Gate valves, air release valves, blow-off valves							
				(Date	:)		
Evaluation:			-	-	,		
Many leakag replaced by to supply wa	ge from joints, valve new GS, HDPE or ater to the consume	es and tappir PVC pipes. I ers.	ng points. Old deteriorate n the west Dili, pipe retic	d AC p ulation	ipes should be is not sufficient		
Rehabilitation F	Plan:						
1) Basic Considera	ation						
Service area	a is separated into	10 supply zor	nes. To assess the conve	eyance	capacity and		
propose the	future water supply	/ planning, co	omputerised pipe networ	k analy	sis is carried out.		
2) Civil Work: non	e						
, 							
3) Piping work:	in all rates in a tallation						
Piping work	how-offs etc Tot	n of necessa	ipelines required is 28.7k	ng air r m	elease valves,		
1)Pipelines	required for zoning	g of the serv	vice area and supplying v	water t	o unserved area:		
Como	ro: 100m	m GS x 3,82	0m to supply to the new	custom	ners		
Bairo	Pite: 100m	m GS x 1,10 m GS x 400n	Om to supply to the new	custom	iers		
	250m	m DIP x 1 30	n to supply to the new cu 10m to replace the existin	istome	is listribution main		
Colme	era: 150m	m GS x 950r	n to supply to the new cu	istome	rs		
	200m	m GS x 350r	n as distribution main				
Caico	li: 150m	m GS x 900r	n to supply to the new cu	Istome	rs		
Bidau	a. 100m Santana: 100m	m GS x 1,45 m GS x 1 70	Om to supply to the new (custom	iers		
Bidau	masau 150m	m GS x 2,35	Om to supply to the new	custom	iers		
Vila V	erde 200m	m GS x 1,20	0m to replace the existing	g distril	bution main		
2) Replacen	nent of the existing	AC pipes by	GS:	10mm	main		
200m 150m	200mm GS pipes of 7,000m for replacement of the existing 200mm main						
100m	100mm GS pipes of 2,600m for replacement of the existing 125mm main						
100m	m GS pipes of 1,10	0m for repla	cement of the existing 80)mm m	ain		
4) Miscellaneous:	none						
Estimated cost	-	Construct	ion schedule:		Prioritv:		
	067 500				Λ <i>Λ</i>		
US\$1,2	.07,500				A-1		

Town:	No. & Facility:		Year of Construction	Finance	d bv:
Dili	28 - Hera A	, B, C			
Existina Condit	tion:	, , -	Photograph:		
Structure:					
Shape:			A State of the	Hera A	
Dimension:			and the start of		
Capacity: Hera A	(5 L/s), B (3L/sec),	C (5L/sec)			
Function:				-	
Drilled depth: Hera	a A (95m), B (75m)	, C (85m)			A State
Ground level:				No service	A ALLEND
Accessories:			Hera B		PDAM DEL remulato poser an
				E MA	A CONTRACT
				ALL ALL	
				Hera C	
			The second second		
				(Date: M	ay 2000)
Evaluation:					
Hera A, aba	ndoned but equipp	ed with reser	rvoir and pipe installations	s. Hera B, a	abandoned
because of o	decreased producti	on. During th	ne post referendum violer	nce, the su	bmersible
pump in the	well was demolish	ed. Hera C,	presently out of use but of	an be put	back into
operation II	power supply become	mes availabl	е.		
Renabilitation F	lan:				
1) Basic Calculation	o of 2000 UCA proj	ioct robobilit	ation of the well was such	oocefully or	arriad out
Hence no re	e of 2000 JICA proj	ion is require		Jessiully Ca	amed out.
Tience no re		ion is require	<i>.</i>		
2) Civil Work: non	e				
2) Dining work: no	20				
<i>S) Fipling work.</i> no	iie				
4) Mechanical wor	k: none				
, 					
5) Electrical work:	none				
6) Miscellaneous:	none				
-,					
	_	0			
Estimated cost.		Construct	ion schedule:	Pri	ority:
No	ne				-

Town	No. & Facility:		Year of Construction	Finar	nced by:
Dili	29 - Proposed Tran	smission	1984		
Existing Condit	ion:)	Photograph:		
Existing Condition: Facility: Water transmission from Hera A pumping station to Hera A reservoir <i>Diameter:</i> GS 4-inch <i>Length:</i> 0.5 km <i>Function:</i> To convey pumped water to Hera res Accessories: Gate valves		ra A o Hera reser	Photograph:	era A R	eservoir
				(Date	· Dec 2000)
<i>Evaluation:</i> After stoppa	ge of the deep wel	l pump opera	ation, the transmission ma	ain are	demolished.
Rehabilitation H 1) Basic Considera Installation o effectively to	Plan: ation of the new transmis o the consumers via	sion main wi a the service	II be required in order to a reservoir.	distribu	te water
2) Civil Work: non	e				
3) <i>Piping work:</i> Installation o	of 100mm x 0.5 km	including ga	te valves, air release valv	/es and	d blow-off.
4) Mechanical wor	k: none				
5) Electrical work:	none				
6) Miscellaneous:	none				
Estimated cost	:	Construct	ion schedule:		Priority:
US\$1	9,463				A-1

Dili 30 - Hera A Service Reservoir 1984 Existing Condition: Structure: Reinforced concrete Shape: Rectangular Dimension: 5.3m x 6.2m x 3.0mH Storage Capacity: 66m3 Fluction: storage Source of Water: Hera A deep well Ground level: Accessories: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outle with overflow and drain pipes Under the construction of the demolished. Structure and concrete works are assessed normal. Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Placit Consideration Minor Plan: 1) Basic Consideration Minor prehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Pipping work: none Heration lungty acce	Town:	No. & Facility:		Year of Construction	Financed by:
 Existing Condition: Structure: Reinforced concrete Shape: Rectangular Dimension: 5.3m x 6.2m x 3.0mH Storage Capacity: 66m3 Function: storage Source of Water: Hera A deep well Ground level: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes Evaluation: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes Evaluation: A valve chamber, demolished. Structure and concrete works are assessed normal. Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none 	Dili	30 - Hera A Servic	e Reservoir	1984	,
Structure: Reinforced concrete Shape: Rectangular Dimension: 5.3m x 6.2m x 3.0mH Storage Capacity: 66m3 Function: storage Source of Water: Hera A deep well Accessories: A valve chamber, two manholes, one ventilator, 4 inch GS outet, 4 inch GS outet with overflow and drain pipes Evaluation: Atter pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Evaluation: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none	Existing Condit	ion:		Photograph:	
Shape: Rectangular Dimension: 5.3m x 6.2m x 3.0mH Storage Capacity: 66m3 Function: storage Source of Water: Hera A deep well Ground level: Accessories: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes Evaluation: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes Evaluation: A valve chamber, demolished. Structure and concrete works are assessed normal. Evaluation: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none	Structure: Reinfor	ced concrete			
Dimension: 5.3m x 6.2m x 3.0mH Storage Capacity: 66m3 Function: Storage Source of Water: Hera A deep well Ground level: Accessories: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Evaluation: Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. (Divil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none Evaluation: Evaluation: (Divil Work: Construction of access road (100m length), security fence, and installation of door with air gallery (Divil Work: Construction of access road (100m length), security fence, and installation of door with air gallery (Divil Work: none	Shape: Rectangul	ar			the section of
Storage Capacity: 66m3 Function: storage Source of Water: Hera A deep well Ground level: Accessories: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes Image: Consideration (Date: Dec 2000) Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none	Dimension: 5.3m	x 6.2m x 3.0mH			ALTR. DO
 Function: storage Source of Water: Hera A deep well Ground level: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes Evaluation: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Evaluation Plan: 1) Basic Consideration Minor rehabilitation plan: 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none 	Storage Capacity:	66m3		Contraction of the second	
 Source of Water: Hera A deep well Ground level: Accessories: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Evaluation Plan: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none 	Function: storage				and the second
Ground level: Accessories: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes (Date: Dec 2000) Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Prehabilitation Plan: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none	Source of Water:	Hera A deep well			
 Accessories: A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes (Date: Dec 2000) Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none 	Ground level:				in the west of the
A valve chamber, two manholes, one ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none	Accessories:			ST LINE STORE	
 ventilator, 4 inch GS inlet, 4 inch GS outlet with overflow and drain pipes (Date: Dec 2000) Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery Piping work: none Mechanical work: none 	A valve char	mber, two manhole	s, one		The states
With overriow and drain pipes (Date: Dec 2000) Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. (Construction of access road (100m length), security fence, and installation of door with air gallery) Piping work: none) Classic work: none) Classic work: none	ventilator, 4	inch GS inlet, 4 inc	h GS outlet		
<i>(Date: Dec 2000) Evaluation:</i> After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. <i>Rehabilitation Plan:</i> 1) <i>Basic Consideration</i> Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) <i>Civil Work:</i> Construction of access road (100m length), security fence, and installation of door with air gallery 3) <i>Piping work:</i> none 4) Mechanical work: none	with overflow	v and drain pipes			
(Date: Dec 2000) Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. () Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 5) Electrical work: none					CARD AND AND AND
 (Date: Dec 2000) Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. (Divil Work: Construction of access road (100m length), security fence, and installation of door with air gallery (Plantriad work: none 5) Elastriad work: none					
 Evaluation: After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none 					(Date: Dec 2000)
After pump breakage at Hera A deep well, this service reservoir has not been working. Door to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: 1) Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none	Evaluation:				(Date. Dec 2000)
 to the valve chamber, demolished. Structure and concrete works are assessed normal. Rehabilitation Plan: Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery Piping work: none Mechanical work: none 	After pump	oreakage at Hera A	deep well. t	his service reservoir has	not been working. Doo
 Rehabilitation Plan: Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery Piping work: none Mechanical work: none 	to the valve	chamber. demolish	ed. Structur	e and concrete works are	assessed normal.
 Rehabilitation Plan: Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery Piping work: none Mechanical work: none 		· · · · , · · · · ·			
 Rehabilitation Plan: Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery Piping work: none Mechanical work: none 					
 Rehabilitation Plan: Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery Piping work: none Mechanical work: none 					
 Basic Consideration Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery Piping work: none Mechanical work: none 	Rehabilitation F	Plan:			
 Minor rehabilitation is required, including repair of the demolished door, installation of chlorine dosage equipment, security fence, and construction of access road. 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none 	1) Basic Considera	ation			
 <i>chlorine dosage equipment, security fence, and construction of access road.</i> <i>Civil Work:</i> Construction of access road (100m length), security fence, and installation of door with air gallery <i>Piping work:</i> none <i>Mechanical work:</i> none 	Minor rehab	ilitation is required,	including re	pair of the demolished do	or, installation of
 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none 	chlorine dos	age equipment, se	curity fence,	and construction of acces	ss road.
 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none 					
 2) Civil Work: Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none 					
 2) Civil Work. Construction of access road (100m length), security fence, and installation of door with air gallery 3) Piping work: none 4) Mechanical work: none 	2) Civil Morla				
 3) Piping work: none 4) Mechanical work: none 	2) CIVII WORK	of access read (1)	00m longth)	coourity fonce, and instal	llation of door with air
3) Piping work: none 4) Mechanical work: none	construction	TOT ACCESS TOAU (T	oom lengtin),	Security rence, and instal	
3) <i>Piping work:</i> none 4) <i>Mechanical work:</i> none	ganery				
3) Piping work: none 4) Mechanical work: none					
4) Mechanical work: none	3) Piping work: no	ne			
4) Mechanical work: none	o) : .pge				
4) Mechanical work: none					
4) Mechanical work: none					
E) Electrical works papa	4) Mechanical wor	k: none			
5) Electrical works name					
E) Electrical works papa					
E) Floatriad works name					
5) Electrical work. Hone	5) Electrical work:	none			
6) Miscellaneous: installation of chlorine dosage equipment	6) Miscellaneous:	installation of chlor	ine dosage e	equipment	
Estimated cost: Construction schedule: Priority:	Estimated cost		Construct	ion schedule:	Priority
			2011001000		
US\$7,100 A-2	US\$7	7,100			A-2

Town	No. & Facility:		Year of Construction	Finar	nced by:		
Dili	31 - Proposed Raw	Water Main		·			
Background:			Photograph:	1			
There are tw Alternative / existing inta abstract rive downstream study and si	vo alternatives prop A is raw water intak ke site, while Alterr arbed water at 1.8kr of the Bemos river urvey is required.	oosed. e at the native B is to n . Further					
Evaluation:							
Rehabilitation F	lan:						
1) Basic Considera	ation		•				
Alternative A :	from existing intak	e to Dili WTF	b				
	- .						
Alternative B :	from new intake poin	nt (1.8km dow	n from existing intake, infilt	ration g	allery) to Dili WTP		
2) Civil Work:							
Alternative A	A:						
Rehabilitatio	on of the existing in	take to incre	ase inflow rate, and cons	tructior	n of grit chamber		
Alternative E	3 :						
Construction	n of collecting well,	pump house	,				
3) Pipilig Work	٨.						
	1. of transmission mai	n from the in	toko to Dili M/TD with o lo	noth 1	0 Qirm 200mm in		
dia of GS n	ine		take to Dill WTP with a le	ngun	U.OKIII, SUUIIIIIIIII		
	, , , , , , , , , , , , , , , , , , , ,						
Alternative {	3:						
Installation of	of perforated lateral	ls, water coll	ectors, 400mm x 200m - 2	2lines			
Installation of	of transmission mai	n from the pi	ump house to Dili WTP, w	vith a le	ength 9.0km,		
300mm in di	300mm in dia. of GS pipe						
Necessary a	appurtenances, incl	uding air rele	ease valves, blow-off valv	ves, pip	e bridges, pipe		
protection a	nd access road						
6) Miscellaneous							
-, <i>micconarioodo</i> .							
Entimated		Const			Duin uit		
Estimated cost:		Construct	ion scnedule:		rriority:		
Atlernative A :	US\$2,959,900				A-1		
Atlernative B :	US\$2,369,100						

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Town	No. & Facility:		Year of Construction	Financed by:			
Dili	32 - DILI	WTP					
Background:			Photograph:				
The propose	ed WTP with a pro-	duction					
capacity 6,0	00 m3/day, is to be	e					
constructed	to supply treated v	vater to					
consumers	particularly in Cent	ral Zone by					
the year 200	03.	-					
		:					
Evaluation:			· · ·				
				•			
Rehabilitation F	Plan:						
1) Basic Considera	ation						
Treatment p	rocess assessmen	it should be b	based on water quality an	alysis of the raw water			
at the plann	ed water sources.	Hence, the tr	eatment process propose	ed in the present study is			
a provisiona	al one, to be confirr	ned in the lat	er stage of the project de	velopment.			
0) 0: 1046-1				-			
2) CIVII WORK:	.						
Construction	n of water treatmer	it plant consi	sting of receiving well, rap	oid mixing chamber.			
flocculation	basin, sedimentati	on basın, filte	er basin, chemical dosing	equipment, and storage			
reservoir.							
2) Dining way							
S) PIPING WORK	tione flammaters		ч. нат. ч. н.				
inter connect	tions, now meters,	controllers, c	Irains at the designated p	oints			
			•				
4) Mechanical wor	·le·						
r) Meenamear wor	Λ.						
5) Electrical work:							
-,							
6) Miscellaneous							
Administrativ	ve Building						
and acquie	ition						
l and scanin	a with fence accer	ss road					
Estimated cost-	<u>a man jonice, acces</u>	Construct	ion schedula.	Driarity			
		Jonsuuel	ivn sunculie.	Filority:			
US\$2,7	69,100			A-1			

Town	No. & Facility:		Year of Construction	Financed by:
Dili	33 - Centra	Res.		
Background:			Photograph:	
It is propose	ed in the Study that	this		
reservoir is to be constructed at an				
elevation of 70m and supply to Central				
Zone by the	year 2003.			
Evaluation:				
Rehabilitation I	Plan:			
1) Basic Consider	ation			
Construction	n of new service rea	servoir with a	i storage, 3,000m3 is con	sidered necessary in
the same pr	emises of Dill WIP	•		
2) Civil Mork				
Construction	n of service reservo	ir with neces	sarv annurtenances inclu	idina ventilator
manhole ar	nd level gauge		buly apparenditions mon	ang ventator,
····	is to tot gauge.			
3) Piping work				
Installation	of inlet, outlet, over	flow, drain, fl	ow meters, controller, an	d air release valves
Mechanical wor	rk: none			
5) Electrical work	2220			
J) Electrical Work.	none			
6) Miscellaneous	none			
Estimated cost	*	Construct	ion schedule:	Prioritv:
المعادية الم				
				A-2

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Town	No. & Facility:	Year of Construction	Financed by:		
Dili	34 - Proposed Aspal Goreng	Res.			
Background:		Photograph:	-		
This reserv	oir is to be constructed at a	an			
elevation of	40m and supply to Comord	оВ			
Zone in 200	13.				
Evaluation:	······································	. <u>t</u>			
		· ·			
Pehabilitation P	lan				
1) Basic Considera	ation				
From the co	moutation of the ratio of the	e required storage to the wate	r demand in the supply		
zone, it is of	otained that construction of	f new service reservoir with a s	storage, 1,000m3 is		
required.					
2) Civil Work:					
Construction	n of service reservoir with r	necessary appurtenances inclu	uding ventilator,		
	iu ievel yauge.				
3) Piping work					
Installation of	of inlet, outlet, overflow, dra	ain, flow meters, controller, an	d air release valves		
4) Mechanical wor	k: none				
5) Electrical work:	none				
b) Miscellaneoùs:	none				
Estimated cost:	Const	ruction schedule:	Priority:		
0391	0,000		A-2		
· · ·	· · · · · · · · · · · · · · · · · · ·				

Town	No. & Facility:		Year of Construction	Financed by:		
Dili	35 - Proposed B	ecusi Res.		-		
Background:	•		Photograph:	L		
Background: It is propose constructed supply to Ku	ed that this reservoi at an elevation of 6 Iluhun B Zone in 20	r should be 60m and 903.	Photograph:			
Evoluation:			l			
Evaluation:			· ,			
Rehabilitation F	Plan:			· · · · · · · · · · · · · · · · · · ·		
From the co Kuluhun B z 600m3, is re 2) Civil Work: Construction manhole, ar	 <i>Basic Consideration</i> From the computation of the ratio of the required storage to the water demand in the Kuluhun B zone, it is obtained that construction of new service reservoir with a storage, 600m3, is required. <i>Civil Work:</i> Construction of service reservoir with necessary appurtenances including ventilator, manhole, and level gauge. 					
3) Piping work Installation o	3) Piping work Installation of inlet, outlet, overflow, drain, flow meters, controller, and air release valves					
4) Mechanical wor	k: none					
5) Electrical work: none						
6) Miscellaneous:	none					
Estimated cost		Construct	ion schedule:	Priority:		
	F4 000					
US\$1	51,800			A-2		

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TOWIT	NO. & Facility:		Year of Construction	r manceu by.
Dili	36 - Bidauma	asau2 Res.		-
Design Background:			Photograph:	
As the existing Bidaumasau reservoir is not sufficient to most fluctuation of the water				
demand in t	meet fluctuation of	of the water		
construction	of new service re	a, servoir at an	,	
elevation of	50m is considere	d necessary	· · ·	
		a noococary.		
Evaluation:			1	
Debebilited	N/			
Rehabilitation F	Plan:			
Rehabilitation F 1) Basic Considera	Plan: ation			
Rehabilitation F 1) Basic Considera It is conside the existing	Plan: ation red necessary to reservoir	construct new	service reservoir with a s	storage, 200m3 close to
Rehabilitation F 1) Basic Considera It is conside the existing	Plan: ation red necessary to reservoir.	construct new	service reservoir with a s	storage, 200m3 close to
Rehabilitation F 1) Basic Considera It is conside the existing	Plan: ation red necessary to reservoir.	construct new	service reservoir with a s	storage, 200m3 close to
Rehabilitation F 1) Basic Considera It is conside the existing 2) Civil Work:	Plan: ation red necessary to reservoir.	construct new	service reservoir with a s	storage, 200m3 close to
Rehabilitation F 1) Basic Considera It is conside the existing 2) Civil Work: Constructior	Plan: ation red necessary to reservoir. n of service reserv	construct new	service reservoir with a s sary appurtenances inclu	storage, 200m3 close to uding ventilator,
Rehabilitation F 1) Basic Considera It is conside the existing 2) Civil Work: Constructior manhole, ar	Plan: ation red necessary to reservoir. n of service reserv nd level gauge.	construct new	service reservoir with a s sary appurtenances inclu	storage, 200m3 close to uding ventilator,
Rehabilitation F 1) Basic Considera It is conside the existing 2) Civil Work: Constructior manhole, ar	Plan: ation red necessary to reservoir. n of service reserv nd level gauge.	construct new	service reservoir with a s	storage, 200m3 close to uding ventilator,
Rehabilitation F 1) Basic Considera It is conside the existing 2) Civil Work: Constructior manhole, ar	Plan: ation red necessary to reservoir. n of service reserv nd level gauge.	construct new	service reservoir with a s	storage, 200m3 close to uding ventilator,
 Rehabilitation F 1) Basic Consideration It is considerative the existing 2) Civil Work: Construction manhole, and 3) Piping work 	Plan: ation red necessary to reservoir. n of service reserv nd level gauge.	construct new	service reservoir with a s	storage, 200m3 close to uding ventilator,
 Rehabilitation F 1) Basic Consideration It is considerative the existing 2) Civil Work: Construction manhole, and 3) Piping work Installation of 	Plan: ation red necessary to reservoir. n of service reserv nd level gauge. of inlet, outlet, ove	construct new voir with neces	service reservoir with a s sary appurtenances inclu ow meters, controller, an	storage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Consideration It is considerative the existing 2) Civil Work: Construction manhole, and 3) Piping work Installation of 	Plan: ation red necessary to reservoir. n of service reserv nd level gauge. of inlet, outlet, ove	construct new voir with neces	service reservoir with a s sary appurtenances inclu ow meters, controller, an	storage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Considerative Considerative the existing 2) Civil Work: Construction manhole, and 3) Piping work Installation of 4) Mechanical wor 	Plan: ation red necessary to reservoir. n of service reserv nd level gauge. of inlet, outlet, ove k: none	construct new voir with neces	service reservoir with a service reservoir with a service reservoir with a service and the service reservoir with a servi	storage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Consideration It is considerative the existing 2) Civil Work: Construction manhole, and 3) Piping work Installation of 4) Mechanical work 	Plan: ation red necessary to reservoir. n of service reserv id level gauge. of inlet, outlet, ove k: none	construct new voir with neces	service reservoir with a service reservoir with a service reservoir with a service and the service reservoir with a servi	storage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Considerative Considerative the existing 2) Civil Work: Construction manhole, and 3) Piping work Installation of 4) Mechanical work 	Plan: ation red necessary to reservoir. n of service reserv id level gauge. of inlet, outlet, ove k: none	construct new voir with neces	service reservoir with a service reservoir with a service reservoir with a service and the service reservoir with a s	storage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Considerative Considerative the existing 2) Civil Work: Construction manhole, and 3) Piping work Installation of 4) Mechanical work 	Plan: ation red necessary to reservoir. n of service reserv ad level gauge. of inlet, outlet, ove k: none	construct new	service reservoir with a service reservoir with a service reservoir with a service and the service reservoir with a s	storage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Considerative considerative the existing 2) Civil Work: Construction manhole, and 3) Piping work Installation of 4) Mechanical work 5) Electrical work: 	Plan: ation red necessary to reservoir. n of service reserv id level gauge. of inlet, outlet, ove k: none	construct new	service reservoir with a s	storage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Considerative Considerative the existing 2) Civil Work: Construction Manhole, and 2) Piping work Installation of 4) Mechanical work 5) Electrical work: 	Plan: ation red necessary to reservoir. n of service reserv ad level gauge. of inlet, outlet, ove k: none	construct new	service reservoir with a service reservoir with a service reservoir with a service and the service reservoir with a s	storage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Considerative considerative the existing 2) Civil Work: Construction manhole, and 3) Piping work Installation of 4) Mechanical work 5) Electrical work: 	Plan: ation red necessary to reservoir. n of service reserv id level gauge. of inlet, outlet, ove k: none	construct new	service reservoir with a s	storage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Considerative Considerative the existing 2) Civil Work: Construction Manhole, and 2) Piping work Installation of 4) Mechanical work 5) Electrical work: 6) Miscellaneous 	Plan: ation red necessary to reservoir. n of service reserv d level gauge of inlet, outlet, ove k: none none	construct new	service reservoir with a s	storage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Considerative considerative the existing 2) Civil Work: Construction manhole, and 2) Piping work Installation of 4) Mechanical work 5) Electrical work: 6) Miscellaneous: 	Plan: ation red necessary to reservoir. n of service reserv ad level gauge. of inlet, outlet, ove k: none none	construct new	service reservoir with a s	atorage, 200m3 close to uding ventilator, d air release valves
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 Rehabilitation F 1) Basic Considerative considerative the existing 2) Civil Work: Construction manhole, and 2) Piping work Installation of 4) Mechanical work 5) Electrical work: 6) Miscellaneous: 	Plan: ation red necessary to reservoir. n of service reserv id level gauge. of inlet, outlet, ove k: none none	construct new	service reservoir with a service reservoir with a service reservoir with a service and the service of the service reservoir with a service reservo	atorage, 200m3 close to uding ventilator, d air release valves
 Rehabilitation F 1) Basic Considerative considerative the existing 2) Civil Work: Construction Manhole, and 2) Piping work Installation of 4) Mechanical work 5) Electrical work: 6) Miscellaneous: Estimated cost: 	Plan: ation red necessary to reservoir. n of service reserv ad level gauge. of inlet, outlet, ove k: none none none	construct new	service reservoir with a service reservoir with a service reservoir with a service and the service of the service of the service reservoir with a	etorage, 200m3 close to uding ventilator, d air release valves

Town	No. & Facility:	-	Year of Construction	Fina	nced by:
Atauro	01 - Tulai S	pring	Initialy1969	1	Portugal
Existing Condi	tion:		Photograph:		5
Facility: Spring int	ake structure				
Description: 3 spr	ing outcrops are co	llected by			
1 inlet	pipes and flows into	o 2 collecting	States and the states of the s	e and	A BOLLE
cnam	bers with grit removed	al facility.		a h	All and the
Structure: Reinior	A L/sec in Oct 200	0	A 14 4 4 1 16	and a	Starter 1
Eunction: Water c	ollection and arit re	o moval	CONTRACTOR OF	12 de	
Flevation (amsl):	oncetion and grit re	movai		R'AL	
Accessories:			a stand the second	1	
			ALL STRATE		
				C+ -	
				and a	Constant Services
				The way	
				- Aser	
				(5)	
F . 1				(Date	e: May, 2000)
Evaluation:	- Us at is a shareh set i				
The water c	ollection champer is	s not properly	/ covered resulting to the	e entry o	of foreign matters.
The spring s	site is not properly i	enced allowi	ng the free entry of hum	ian anu	animais.
Rehabilitation I	Plan:				
1) Basic Consider	ation:				
The water s	ource and the colle	ction chamb	er must secured and co	vered to	o minimize the risk
of water co	ntamination.				
2) Civil Work:					
Installation	of concrete covers	s: 2m x 2m x	0.2m and 4m x 5m x 0.2	25m	
Constructio	on of security fence	: approximat	ely 150 m length		
2) Dining work:					
<i>3) Fipility work.</i> The earth ch	annel constructed fo	r collecting sr	vring water shall be replac		P\/C 75mm x 20 m
The earth ch		r collecting sp	ning water shall be replac	eu by u	F VG 75mm x 20 m
4) Mechanical wor	rk: none				
	A. Hone				
5) Electrical work:	none				
,					
6) Miscellaneous:	none				
			1		Dute u'i
Estimated cost	:	Construct	ion schedule:		Priority:
US\$	6,201				B-2

Town	No. & Facility:		Year of Construction	Financed by:
Atauro	02 - Harong	lerang	1973	Portugal
Existing Condit	Existing Condition:			
Structure: Concrete made			-	
Shape: Rectangular				
Dimension: 4m x 3.5m x 1.9m				
Capacity: 28m ³	<i>Capacity:</i> 28m ³			4
Function: Storage	ŀ		14 A.	1
Source of Water:	Tulai Spring	İ	Real march NS	
Elevation (amsl):		İ		A CONTRACTOR OF THE OWNER
Accessories:		İ		
Inlet: GSP 2	2-inch	İ		THE STATE OF
Outlet: GSP	' 2 x 2-inch			
Overflow: G	SP 2 x 2-inch	İ		
			1.115 2 - 15	Wards and and
			ALL DECEMBER OF	
			改善的 的复数补偿	
		İ		
				(Date: May, 2000)
Evaluation:				
In good wo	orking condition but	needs fence	and flow control equipment	ent.
Rehabilitation F	Plan:			
1) Basic Considera	ation:			
The water se	ource must be prop	erly secured	to minimize the risk of co	ontamination.
2) Civil Work:				
Construction	n of security fence:	approximate	ely 15m ²	
Installation of	of water level gauge	9		
3) Piping work:				
Installation of	of 50mm flow contro	ollers, flow m	neters and air valves	
		-		
4) Mechanical wor	rk: none			
,				
5) Electrical work:	none			
o) <u></u>	110.10			
6) Miscellaneous:				
Installation (of chlorine-dosing f	acilities		
moundation c		20111103		
Estimated cost	!	Construct	tion schedule:	Priority:
	0 504	••••••		
0240	3,524			D-2

Town	No. & Facility:		Year of Construction	Final	nced by:
Atauro	03 - Tolelo	na 1	1984		Indonésia
Existing Condit	Existing Condition:				
Facility: Service reservoir					
Structure: Concrete with tin roof					
Shape: Rectangular					
Dimension: 5m x 5	5m x 1.5m			1. Tr.	18 18 18 18 18 18 18 18 18 18 18 18 18 1
Capacity: 37.50m	3				
Function: Storage			Reality of the second	al an	Section and the
Source of Water	Tulai Intake				and the second
Elevation (amsl):				See.	
Accessories:					
inlet: GSP 2-i	nch x 2 from Tulai ar	nd Tolelona 2			
outlet: GSP	2-inch x 4 and GSI	21-inch x 1			Land State
			Ende-	John Sta	
			A LANGER	A AND A A	
				(Date	. May 2000)
Evaluation:				Daie	. May, 2000)
In good wor	king condition but r	equires fenc	e to avoid human and ani	imal er	ntrv
in good won		equires ierici		inai ei	iti y
Rehabilitation R	Dlan				
1) Dopio Consider	tion.				
The recent of	dlion. ir araa muatha aac	urad ta avai	d naacible contemination	oftho	watar ayaaly
The reservo	ir area must be set	ured to avoid	a possible contamination	or the	water supply.
2) CIVII VVORK:					
Construction	n of the security fer	ice.			
Installation of	of water level gauge	9			
3) Piping work:					
Rearrangem	ent of the pipeline	by the install	ation of 1 main outlet with	h wate	r meter
Mechanical wor	<i>k:</i> none				
5) Electrical work:	none				
6) Miscellaneous: none					
Estimated cost		Construct	ion schedule:		Priority:
US\$4	1,581				B-2

Town	No. & Facility:		Year of Construction	Financed by:	
Atauro	04 - Tolelo	ona 2	1989	Indonésia	
Existing Condition:			Photograph:		
Facility: Service reservoir					
Structure: Concrete with galvanized sheets roofing					
Shape: rectangular				19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Dimension: 5m x 5.5m x 1.5m			2	AND TOUCH	
Capacity: 41.25m	3		t	AL 22.15	
Function: Water s	torage		ALL ALL A	TIPA A	
Source of Water:	Tulai spring		The Dela	1.M.	
Elevation (amsl):					
Accessories:				ALC: NOTE: S	
Inlet: GSP 2	2-inch			1 × 1 × 2 × 2	
Outlets: GS	P 2-inch x 4		Republic Andrews		
				(Date: May 2000)	
Evaluation:				(Date. May, 2000)	
In good wor	king condition but r	o fence			
Some portio	on of the roof was d	amaged and	require replacement		
Come ponio		anaged and			
Rehabilitation I	Plan:				
1) Basic Considera	ation:				
This reserve	pir must be well-pro	tected to mir	nimize the risk of contami	nation.	
2) Civil Work:					
Construction	n of the security fer	ice around th	e reservoir site		
Installation of	of water level gauge	e			
3) Piping work:					
Pipe rearran	igement is necessa	ry to combine	e into 1 outlet with 1 flow	meter and control valve	
1) Machanical way					
4) Mechanical wor	rk: none				
E) Electrical works papa					
J) Electrical WORK.					
6) Miscellaneous: none					
Estimated cost	:	Construct	ion schedule:	Priority:	
1100	4 758			R_2	
034	+,700			D-2	