APPENDIX 11 CONSTRUCTION COST DATA

APPENDI	X 11 CONSTRUCTION COST DAT	ľA			
Buibui	Camp BILL OF QUA	NTIT!	<u>Y</u>		В -1
ITEM NO.	WORK DESCRIPTION	Q'TY	TINU	UNIT PRICE	AMOUNT (Ksh)
1. W	Vell Construction				-
1-1 W	/ell Construction (Ø 2500 m/m)	•			
1-1-1 T	ransportation	1	L.S.	:	
1-1-2 D	Digging well	10	М		
- 1	urnish and install of well casing	10	M .		
	ravel packing and cement sael	1	L.S.	·	
1-1-5 C	Covering of well	1	L.S.		ϵ^{*}
1-1-6 M	iscellaneous works and others	1	L.S.		
s	iub-total				10,000,00
1-2 E	Existing Well Repairing				
1-2-1 1	Pransportation	5	L.S.		
1-2-2 R	Repairing of well		L.S.		
1-2-3 0	Covering of well	_	L.S.		
1-2-4 1	liscellaneous works and others	-	L.S.		
s	Sub-total				==
2. W	later Drawing Instruments				
2-1 W	/indmill				
2-1-1 7	ransportation	1	L.S.		:
2-1-2 0	Complete Windmill unit	1	L.S.		
2-1-3 I	install of windmill	1	L.S.	:	
2-1-4 M	liscellaneous works and others	1	L.S.		
s	Sub-total				44,505.00
2-2 W	indmill Repairing			·	
2-2-1 T	Transportation	-	L.S.		
2-2-2 R	Repairing of existing tower	_	L.S.		
1.	Replace the complete windmill	-	L.S.		
- 1	discellaneous works and others	-	L.S.		
s	Sub-total				
2-3 Ha	and Pump				
2-3-1 T1	ransportation	1,	L.S.		
2-3-2 0	omplete hand pump unit	ו	L.S.		
2-3-3 II	nstall of hand pump	1	L.S.		
i i	iscellaneous works and others	1	L.S.		-
Sı	ub-total]		8,200.00

ITEM NO.	WORK DESCRIPTION	Q'TY	UNIT	UNIT PRICE	AMOUNT
3.	Construction of Water Reservoi	r Tank	(11 M ³)	
3-1-1	Transportation	1	L.S.		·
3-1-2	Basis work and leveling works	1	L.S.		
3-1-3	Furnish and install of water reservoir tank complete with				
	necessary coating	1	L.S.		
3-1-4	Plumbing works	1	L.S.		
3-1-5	Miscellaneous works and others	1	L.S.		
	Sub-total		·		29,350.00
4.	Communal Water Point				
4-1	Platform around well			·	
4-1-1	Transportation	1	L.S.		
4-1-2	Earth work and leveling works	1	L.S.		
4-1-3	Gravel foundation works	2.3	и3		·
4-1-4	Concrete works (1:3:6)	.2.0	м3		
4-1-5	Reinforcement bar works	120	Kg .		
4-1-6	Forming works	8.0	MS	E	
4-1-7	Miscellaneous works and others	1	L.S.		
	Sub-total				3,000.00
4-2	Communal water point				
4-2-1	Transportation	1	L.Š.		N.
4-2-2	Earth work and leveling works	1	L.S.		, ,
4-2-3	Gravel foundation works	2.0	и3		
4-2-4	Concrete works (1:3:6)	1.7	н3		
4-2-5	Reinforcement bar works	100	Kg		
4-2-6	Forming works	2.0	и2		
4-2-7	Concrete brick works	4.0	и3		e Ng
4-2-8	Plastering works (mortar 20m/m	22.5	MS		·
4-2-9	Furnish and install of roof	13.0	МS		
4-2-10	Furnish and install of column	1	L.S.		
4-2:11	Plumbing works	1	L.S.		
4-2-12	Miscellaneous works and others	1	L.S.		
	Sub-total			. :	22,000.00

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ITEM NO.	WORK DESCRIPTION	Q'TY	UNIT	UNIT PRICE	AMOUNT
5.	Bathing Shed (10 Rooms)				
5-1-1	Transportation	1	L.S.		
5-1-2	Earth work and leveling works	1	L.S.		
5-1-3	Gravel foundation works	7.1	м3		
5-1-4	Concrete works (1:3:6)	6.5	м3	7.71	
5-1-5	Reinforcement bar works	390	Кg	:	
5-1-6	Forming works	7.5	MS		
5-1-7	Concrete brick (wall) works	76.0	м2		
5-1-8	Plastering works (mortal 20m/m) 31.5	MS		·
5-1-9	Furnish and install of roof	54.0	M2		
5-1-10	Furnish and install of column	1	L.S.		
	Plumbing works	1	L.S.		
5-1-12	Miscellaneous works and others	1	L.S.		
	Sub-total				40,000.00
6.	Waste Water Drainage	. *			
	Transportation	1	L.S.		
	Earth work and leveling works	1	L.S.		
	Concrete works (1:4:6)	0.75	м3		
	Concrete brick works	7.5	МS		
100	Gravel works (40-60 m/m)	10.5	и3		÷
6-1-6	Ceramic pipe works (Ø100 m/m)	30	н		
6-1-7	Miscellaneous works and others	1	L.S.		
	Sub-total			•	7,000.00
7.	Distribution Pipe (L=50 ^m X 3 p	laces)			1.
7-1-1	Transportation	_	L.S.		
7-1-2	Naterials for distribution	•	L.S.		
7-1-3	Earth works and installation		L.s.		
7-1-4	Miscellaneous works and others		L.S.		
	Sub-total				
Grand	Total	• • • • • •	•••••	• • • • • • •	164,055.00

Fahamuni Camp (1)

NO.	WORK DESCRIPTION	Q'TY	TINU	UNIT PRICE	AMOUNT (Ksh)
1.	Well Construction				
1-1	Well Construction (\$ 2500 m/m)				
1-1-1	Transportation	_	L.S.		
1-1-2	Digging well	-	м		
1-1-3	Furnish and install of well casing	-	М		
1-1-4	Gravel packing and cement sael		L.S.		· · · · · · · · · · · · · · · · · ·
1-1-5	Covering of well	-	L.S.		
1-1-6	Miscellaneous works and others	-	L.S.		
	Sub-total				 -
1-2	Existing Well Repairing				·
1-2-1	Transportation	lı	L.S.		
	Repairing of well	1	L.S.		
	Covering of well	1	L.S.		
·	Miscellaneous works and others	1	L.S.	egites di le	, 1
	Sub-total				4,500.00
2.	Water Drauing Instruments	:			
2-1	Windmill				:
2-1-1	Transportation	_ `	L.s.	L w	
2-1-2	Complete Windmill unit	-	L.S.		
2-1-3	Install of windmill		L.S.		
2-1-4	Miscellaneous works and others		L.S.		
	Sub-total				 -
2-2	Windmill Repairing	 	· ·		
	Transportation	1	L.S.		
	Repairing of existing tower	1.	L.S.		
	Replace the complete windmill		L.S.		
	Miscellaneous works and others	100	L.S.		
	Sub-total	•			33,350.00
2-3	Hand Pump			:	
1	Transportation	-1	L.S.		
	Complete hand pump unit	1	L.S.		
	Install of hand pump	1	L.S.		
	Miscellaneous works and others	1	L.S.		·
	Sub-total				8,200.00

ITEM NO.	WORK DESCRIPTION	Q'TY	TINU	UNIT PRICE	AMOUNT
3.	Construction of Water Reservoi	r Tank	(11 M ³	·)	
3-1-1	Transportation	1	L.S.		
3-1-2	Basis work and leveling works	1	L.S.		
3-1-3	Furnish and install of water	•			
	reservoir tank complete with necessary coating	1	L.S.		-
3-1-4	Plumbing works	1	L.S.		
	Miscellaneous works and others	_	L.S.		
1	Sub-total		Б.О.		29,350.00
					29,000
4.	Communal Water Point		• ,		
4-1	Platform around well				
4-1-1	Transportation	1	L.S.		·
4-1-2	Earth work and leveling works	1	L.S.		
4-1-3	Gravel foundation works	2.3	м3		
4-1-4	Concrete works (1:3:6)	2.0	иЗ		
4-1-5	Reinforcement bar works	120	Kg		:
4-1-6	Forming works	8.0	M2	!	
4-1-7	Miscellaneous works and others	ı	L.S.	·	
	Sub-total				3,000.00
42	Communal water point				·
4-2-1	Transportation	• 1	L.S.		<u>.</u>
4-2-2	Earth work and leveling works	1	L.S.	. :	
4-2-3	Gravel foundation works	2.0	м3		
4-2-4	Concrete works (1:3:6)	1.7	н3		·
4-2-5	Reinforcement bar works	100	Kg		
4-2-6	Forming works	2.0	н2		· ;
4-2-7	Concrete brick works	4.0	м3		
4-2-8	Plastering works (mortar 20m/m) 25.5	М5		
4-2-9	Furnish and install of roof	13.0	М5	i.,.	•
4-2-10	Furnish and install of column	1	L.S.		t e e
4-2-11	Plumbing works	1	L.S.		·
4-2-12	Miscellaneous works and others	1	L.S.		
5 4	Sub-total				22,000.00

ITEM NO.	WORK DESCRIPTION	Q'TY	UNIT	UNIT PRICE	AMOUNT
5.	Bathing Shed (10 Rooms)				
5-1-1	Transportation	1	L.S.		
5-1-2	Earth work and leveling works	1	L.S.		
5-1-3	Gravel foundation works	7.1	и3		
5-1-4	Concrete works (1:3:6)	6.5	ี ห3		
5-1-5	Reinforcement bar works	390	Кg		
5-1-6	Forming works	7.5	м2		. *
5-1-7	Concrete brick (wall) works	76.0	M5		
5-1-8	Plastering works (mortal 20m/m	31.5	и2		
5-1-9	Furnish and install of roof	54.0	ИS		
5-1-10	Furnish and install of column	ı	L.S.		
5-1-11	Plumbing works	1	L.S.		
5-1-12	Miscellaneous works and others	i	L.S.		
:	Sub-total				40,000.00
6.	Waste Water Drainage				
6-1-1	Transportation	lı	L.S.		
6-1-2	Earth work and leveling works	ı	L.S.		
6-1-3	Concrete works (1:4:6)	0.75	м3		
6-1-4	Concrete brick works	7.5	M2		4
6-1-5	Gravel works (40-60 m/m)	10.5	м3		-
6-1-6	Ceramic pipe works (Ø100 m/m)	. 30	N.		
6-1-7	Miscellaneous works and others	1	L.S.		• . •
	Sub-total	4. e ¹ .		:	7,000.00
7.	Distribution Pipe (L=50 ^m X 3 p	lacas			
1 1	Transportation		L.S.		
1 . 1	Materials for distribution		L.S.		
	Earth works and installation		L.S.		
	Miscellaneous works and others	<u> </u>	L.S.		
	Sub-total	, - ·	2.01		. Sin deal
Grand	Total	••••		• • • • • • • •	147,400.00

ITEM NO.	WORK DESCRIPTION	Q'TY	UNIT	UNIT PRICE	AMOUNT (Ksh)
1.	Well Construction				
1-1	Well Construction (Ø 2500 m/m)				
1-1-1	Transportation	1	L.S.		
1-1-2	Digging well	20	м	ta a	
1-1-3	Furnish and install of well casing	20	M		
1-1-4	Gravel packing and cement	1	L.S.		
1-1-5	Covering of well	ı	L.S.	:	
•	Hiscellaneous works and others		L.S.		in the second
	Sub-total		D.G.		20,000.00
1-2	Existing Well Repairing				
1-2-1	Transportation	_	L.S.	·	
_	Repairing of well		L.S.		
	Covering of well		L.S.		
	Miscellaneous works and others		L.S.		
	Sub-total				*** ***
2.	Water Drauing Instruments				
2-1	Windmill				
2-1-1	Transportation	-	L.S.		
2-1-2	Complete windmill unit	-	L.S.		
2-1-3	Install of windmill	-	L.S.	*	·
2-1-4	Miscellaneous works and others	} –	L.S.		
	Sub-total	ĺ			
2-2	Windmill Repairing				
2-2-1	Transportation	-	L.S.		
2-2-2	Repairing of existing tower	-	L.S.		e Parati
2-2-3	Replace the complete windmill	-	L.S.		
2-2-4	Miscellaneous works and others	s	L.S.		
	Sub-total			·	er es
-3	Hand Pump				
2-3-1	Transportation	1.	L.S.		
2-3-2	Complete hand pump unit	1	L.S.		
?-3-3	Install of hand pump	ı	L.S.		÷
2-3-4	Miscellaneous works and others	1	L.S.		
	Sub-total				8,200.00

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ITEM NO.	WORK DESCRIPTION	Q'TY	TINU	UNIT PRICE	THUOMA
3.	Construction of Water Reservoi	r Tank	(11 M ³)	
3-1-1	Transportation	-	L.S.	÷ ,	•
3-1-2	Basis work and leveling works	-	L.S.		;
3-1-3	Furnish and install of water reservoir tank complete with necessary coating	<u>-</u>	L.S.		
3-1-4	Plumbing works	_	L.S.		İ
3-1-5	Miscellaneous works and others Sub-total	-	L.S.		
4.	Communal Water Point				
4-1	Platform around well				
4-1-1	 Transportation	וו	L.S.		
	Earth work and leveling works		L.S.		
	Gravel foundation works	2.3	м3		
-	Concrete works (1:3:6)	2.0	м3	4	}
	Reinforcement bar works	120	Kg		
	Forming works	8.0	MS		
	Miscellaneous works and others		L.S.	`	
	Sub-total			·	3,000.
4_2					
	Communal water point				
-	Transportation	-	L.S.		
	Earth work and leveling works	-	L.S.		
	Gravel foundation works	-	M ²	*	
	Concrete works (1:3:6)	-			
	Reinforcement bar works	-	Kg H ²		
	Forming works	-	}		
•	Concrete brick works	ļ -	н3		
	Plastering works (mortar 20m/m	i)	МS	in the second	
	Furnish and install of roof	-	ΜS		
	Furnish and install of column	-	L.S.		
	Plumbing works	-	L.S.		
4-2-12	Miscellaneous works and others	-	L.S.		
	Sub-total	<u></u>	L		
		4.5	4.7 L		
				4	
	A-70		٠.		•

ITEM NO.	WORK DESCRIPTION	Q'TY	TINU	UNIT PRICE	AMOUNT
5.	Bathing Shed (Rooms)				
5-1-1	Transportation		L.S.	·	
5-1-2	Earth work and leveling works	-	L.S.		
5-1-3	Gravel foundation works	_	и3		
5-1-4	Concrete works (1:3:6)	. –	א3		
5-1-5	Reinforcement bar works	_	Kg		
5-1-6	Forming works		ИS		
5-1-7	Concrete brick (wall) works	_	M2		
5-1-8	Plastering works (mortal 20m/m) _	MS		
5-1-9	Furnish and install of roof	_	м2		
5-1-10	Furnish and install of column	_	L.S.		
5-1-11	Plumbing works	_	L.S.		:
5-1-12	Miscellaneous works and others		L.S.		J
	Sub-total			ı	

6.	Waste Water Drainage			1	
5 I	Transportation	1	L.S.		
1 7	Earth work and leveling works	1	L.S.)
, ,	Concrete works (1:4:6)	0.25	พ3		
6-1-4	Concrete brick works	2.5	ИЗ		
6-1-5	Gravel works (40-60 m/m)	3.5	<i>א</i>		
6-1-6	Ceramic pipe works (Ø100 m/m)	10	М		
6-1-7	Miscellaneous works and others	1	L.S.		-
	Sub-total			•	2,000,00
7.	Distribution Pipe (L=50 ^m X 3 p	aces)			
1 1	Transportation		L.S.		
1	Materials for distribution	- Î	L.S.		
	Earth works and installation	-	L.S.		·
	Miscellaneous works and others		L.S.		
	Sub-total	_			
Grand	Total				33,200.00

ITEM NO.	WORK DESCRIPTION	Q'TY	דואט	UNIT PRICE	AMOUNT (Ksh)
1.	Well Construction				
1-1	Well Construction (Ø 2500 m/m)				
1-1-1	Transportation	-	L.S.		
1-1-2	Digging well		М		
1-1-3	Furnish and install of well casing	-	м		
1-1-4	Gravel packing and cement sael	_	L.S.	A STATE OF STATE OF	
1-1-5	Covering of well		L.S.		
l ' l	Miscellaneous works and others	-	L.S.		
	Sub-total				
1-2	D. J. A. J. H. B. B. B. L. A.	<u> </u>			
	Existing Well Repairing	_			
	Transportation Repairing of well	1	L.S.		
	Covering of well	1	L.S.		
1 1	Miscellaneous works and others	1	L.S.	1 1 1 1 1 1 1 1 1 1 1 1	
1-2	Sub-total	1	L.S.		4,500.00
2.	Water Drauing Instruments				
2-1	Windmill				
2-1-1	Transportation		L.S.		
2-1-2	Complete windmill unit	_	L.S.		
2-1-3	Install of windmill		L.S.		
2-1-4	Miscellaneous works and others		L.S.		
2 11 2	Sub-total				
2-2	Windmill Repairing				* 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1
2-2-1	Transportation	_	L.S.		
	Repairing of existing tower	-	L.S.		
1 3	Replace the complete windmill	_	L.S.		
l ' I	Miscellaneous works and others	~ ,	L.S.		
	Sub-total				
2-3	Hand Pump				
	Transportation	1	L.s.		
	Complete hand pump unit	ı	L.S.		
100	Install of hand pump	1	L.S.		
2-3-4	Miscellaneous works and others	1	L.S.	· · ·	
·]	Sub-total	-			8,200.00

ITEM NO.	WORK DESCRIPTION	Q'TY	UNIT	UNIT PRICE	AMOUNT
3.	Construction of Water Reservoi	r Tank	(11 M ³	5)	
3-1-1	Transportation		L.S.		
3-1-2	Basis work and leveling works	: -	L.S.	11 11	
3-1-3	Furnish and install of water	1			
	reservoir tank complete with necessary coating	_	L.S.		:
3-1÷4	Plumbing works	*	L.S.		1
	Miscellaneous works and others	148	L.S.		
:	Sub-total				-
	Parkett OT provide the state of				
- 1	Communal Water Point				
1 1	Platform around well				
	Transportation	1	L.S.		
	Earth work and leveling works	ı	L.S.		4
	Gravel foundation works	2.3	н3	, i	
	Concrete works (1:3:6)	2.0	и3		
	Reinforcement bar works	150	Kg		
	Forming works	8.0	ИS		i i i i i i i i i i i i i i i i i i i
1 1	Miscellaneous works and others	ı	L.S.		
	Sub-total				3,000.00
4-2	Communal water point				· ·
4-2-1	Transportation	. 	L.S.		
4-2-2	Earth work and leveling works	••	L.S.		
4-2-3	Gravel foundation works	_	м ³		
4-2-4	Concrete works (1:3:6)		м3		
4-2-5	Reinforcement bar works		Kg		
4-2-6	Porming works	. =	нS		
4-2-7	Concrete brick works		н3		
4-2-8	Plastering works (mortar 20m/m))	И2		
4-2-9	Furnish and install of roof	. =	ИЗ		
	Furnish and install of column		L.S.		
4-2-11	Plumbing works	-	L.S.		
4-2-12	Miscellaneous works and others		L.S.		
1	Sub-total				e4 64

ITEM NO.	WORK DESCRIPTION	Q'TY	UNIT	UNIT PRICE	AMOU
5.	Bathing Shed (Rooms)				
5-1-1	Transportation	· <u>-</u>	ь, з.		=
1	Earth work and leveling works		L.s.		
5-1-3	Gravel foundation works	, -	พ3		e ^a
5-1-4	Concrete works (1:3:6)	. ===	и3		
5-1-5	Reinforcement bar works		Kg		:
5-1-6	Forming works	_	MS		
5-1-7	Concrete brick (wall) works		MS		
er er i	Plastering works (mortal 20m/m	' > _	MS		
•	Furnish and install of roof		М5		a -
5-1-10	Furnish and install of column	_	L.S.		
5-1-11	Plumbing works	_	L.S.		:
5-1-12	Miscellaneous works and others	_	L.S.		
	Sub-total				
6.	Waste Water Drainage				
	•	Ι,			
	Transportation		L.S.		
	Earth work and leveling works	1	L.S.		
_	Concrete works (1:4:6)	0.25			
	Concrete brick works	2.5	M2		
	Gravel works (40-60 m/m)	3.5	м3		
	Ceramic pipe works (Ø100 m/m)	10	M		_
0-1-7	Miscellaneous works and others	1	L.S.		
	Sub-total				2,00
.7.	Distribution Pipe (L=50 ^m X 3 p	laces)		Service Services	
7-1-1	Transportation	-	L.S.		1
ŀ	Materials for distribution	_	L.S.		
	Earth works and installation		L.S.	Called St. Carlot	
7-1-4	Miscellaneous works and others		L.S.		et e
	Sub-total			Area estada	•

Kanan	a Camp (2)				Ka(2) -1
ITEM NO.	WORK DESCRIPTION	Q'TY	דואט	UNIT PRICE	AMOUNT (Ksh)
1.	Well Construction			1.11	
1-1	Well Construction (Ø 2500 m/m)				
1-1-1	Transportation	ì	L.S.	The second section	
1-1-2	Digging well	15	М		
1-1-3	Furnish and install of well casing	15	м		
1-1-4	Gravel packing and cement sael	1	L.S.		
1-1-5	Covering of well	1 i	L.s.	\	
1-1-6	Hiscellaneous works and others	1	L.S.		
	Sub-total				15,000.00
1-2	Existing Well Repairing				
1.1	Transportation	_	L.S.		
1-2-2	Repairing of well	<u> </u>	L.S.		
	Covering of well	_	L.S.		
1-2_4	Miscellaneous works and others	_	L.S.		
	Sub-total	! 			~ ~
2.	Water Drauing Instruments				
2-1	Windmill				
2-1-1	Transportation	1	L.S.		
2-1-2	Complete windmill unit	ı	L.S.		
2-1-3	Install of windmill	l 1	L.S.		
2-1-4	Miscellaneous works and others	1	L.S.		·
	Sub-total				44,505.00
2÷2	Windmill Repairing				<u> </u>
2-2-1	Transportation	1 4	L.S.	1.7	·
2-2-2	Repairing of existing tower		L.S.		
2-2-3	Replace the complete windmill	-	L.S.	et.	
1	Miscellaneous Works and others	_	L.S.		
	Sub-total				
2-3	Hand Pump		<u> </u>		
2-3-1	Transportation	1	L.S.		
1.2	Complete hand pump unit	1	L.S.		
2-3-3	Install of hand pump	1	L.S.		
2-3-4	Miscellaneous works and others	l	L.S.		
	Sub-total				8,200.00

ITEM NO.	WORK DESCRIPTION	Q'TY	TINU	UNIT	AMO
3.	Construction of Water Reservoi	r Tanl	(11 M ²		
3-1-1	Transportation	1	L.S.		,
3-1-2	Basis work and leveling works	1	L.S.		
3-1-3	Furnish and install of water reservoir tank complete with necessary coating	1	L.s.		
3-1-4	Plumbing works	1	L.S.		
3-1-5	Miscellaneous works and others	•	L.S.		-
	Sub-total				29,3
4.	Communal Water Point				
4-1	Platform around well			ing a sign of the death	
4-1-1	Transportation		L.S.		
4-1-2	Earth work and leveling works	1	L.S.		
4-1-3	Gravel foundation works	2.3	м3	+ **	
4-1-4	Concrete works (1:3:6)	2.0	и3		
4-1-5	Reinforcement bar works	120	Kg		
4-1-6	Forming works	8.0	M _S	the state of	
4-1-7	Miscellaneous works and others		L.S.		
·	Sub-total				3,00
4-2	Communal water point				
4-2-1	Transportation	ı	L.S.		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4-2-2	Earth work and leveling works	1	L.S.		
4-2-3	Gravel foundation works	2.0	м3		
4-2-4	Concrete works (1:3:6)	1.7	M3	ing the state of t	,
4-2-5	Reinforcement bar works	100	Kg		1 4
4-2-6	Forming works	2.0	_М 2		
	Concrete brick works	4.0	н3		$u = \frac{2}{12} \cdot v$
4-2-8	Plastering works (mortar 20m/m	22.5	H2	4 T. K.	
	Furnish and install of roof	13.0	и2	the second section of	F
4-2-20	Furnish and install of column	1	L.S.	a free or	
4-2-11	Plumbing works	1	L.S.		
4-2-12	Miscellaneous works and others	1	L.S.		
	Sub-total				22,00

ITEM NO.	WORK DESCRIPTION	Q¹TY	UNIT	UNIT PRICE	AMOUNT
5.	Bathing Shed (15 Rooms)				
5-1-1	Transportation	<u>1</u>	L.S.		
5-1-2	Earth work and leveling works	1	L.S.		
5-1-3	Gravel foundation works	11.0	м3		
5-1-4	Concrete works (1:3:6)	10.0	м3		
5-1-5	Reinforcement bar works	595	Kg		
5-1-6	Forming works	12.5	MS		
5-1-7	Concrete brick (wall) works	12.0	н2		i
5-1-8	Plastering works (mortal 20m/m) 47.1	M2		
5-1-9	Furnish and install of roof	81.0	. MS		
5-1-10	Furnish and install of column	1	L.S.		
5-1-11	Plumbing works	1	L.S.		
5112	Miscellaneous works and others	1	L.S.		
	Sub-total				60,000.00
6.	Waste Water Drainage				
	Transportation	1	L.S.	: ·	·
1	Earth work and leveling works	1	L.S.	·	
	Concrete works (1:4:6)	0.75			
1	Concrete brick works	7.5	МS		<i>i</i>
J	Gravel works (40-60 m/m)	10.5	м3		1 :
	Ceramic pipe works (Ø100 m/m)	30	M		:
6-1-7	Miscellaneous works and others	1	L.S.	1. i	· · · · · · · · · · · · · · · · · · ·
	Sub-total				7,000.00
7.	Distribution Pipe (L=50 rd X 3 p	Laces)			
7-1-1	Transportation		L.S.		
7-1-2	Materials for distribution		L.S.		
7-1-3	Earth works and installation		L.S.		
7-1-4	Miscellaneous works and others	_	L.s.		
	Sub-total				wa sa
Grand	Total ,			• • • • • • •	189,055.00

Kidimu Camp

ITEM NO.	WORK DESCRIPTION	Q,TY	UNIT	UNIT PRICE	AMOUNT (Ksh)
1.	Well Construction				
1-1	Well Construction (Ø 2500 m/m)		- 1 is	. •	
1-1-1	Transportation	j	L.S.	e de la seconda	
1-1-2	Digging well	15	М		
1-1-3	Furnish and install of well casing	15	М	e e na trace	
1-1-4	Gravel packing and cement sael	1	L.S.		
1-1-5	Covering of well	1	L.S.		
	Miscellaneous works and others	I -	L.S.		
	Sub-total	1	Б.З.		15,000.00
1-2	Existing Well Repairing	- 	2.5		
1-2-1	Transportation	_	L.S.	14	
	Repairing of well		L.S.		
1-2-3	Covering of well		L.S.		
1-2-4	Miscellaneous works and others	_	L.S.	•	
	Sub-total				
2.	Water Drawing Instruments			**************************************	_ بروان المساور
2-1	Windmill				
2-1-1	Transportation	ıı	L.S.		
2-1-2	Complete windmill unit	1	L.S.		
2-1-3	Install of windmill	1	L.S.		
2-1-4	Miscellaneous works and others	1	L.S.		
	Sub-total				44,505.00
2-2	Windmill Repairing		ī,		
2-2-1	Transportation	-	L.S.	1000	
2-2-2	Repairing of existing tower		L.S.		
2-2-3	Replace the complete windmill	- 	L.S.		
2-2-4	Miscellaneous works and others	₩	L.S.		
· .	Sub-total				B+ 420
2-3	Hand Pump				
2-3-1	Transportation	1	L.S.		
2-3-2	Complete hand pump unit	1	L.S.	i e e e e e e e e e e e e e e e e e e e	er de la companya de
2-3-3	Install of hand pump	1	L.S.		
2-3-4	Miscellaneous works and others	1	L.S.		
	Sub-total				8,200.00

₹ **-**1

ITEM NO.	WORK DESCRIPTION	Q'TY	TINU	UNIT PRICE	TRUOMA
3.	Construction of Water Reservoi	r Tank	(11 M ³)	.1
3-1-1	Transportation	1	L.S.		
3-1-2	Basis work and leveling works	1	L.S.		
3-1-3	Furnish and install of water				
	reservoir tank complete with necessary coating	1	L.S.		
3-1-4	Plumbing works	1	L.S.		
1	Miscellaneous works and others	1.00	L.S.		:
	Sub-total				29.350.00
4	Communal Water Point	V	the state		
4-1	Platform around well				
1.75	Transportation	1	L.S.		
	Earth work and leveling works	l	L.S.		
· .	Gravel foundation works	2.3	M3		. :
	Concrete works (1:3:6)	2.0	M3	1	;
	Reinforcement bar works	120	Kg		
	Forming works	8.0	M2		
1	Miscellaneous works and others	ı	L.S.		
	Sub-total				3,000.00
4-2	Communal water point				
	Transportation	1	L.S.		÷ .
	Earth work and leveling works	1	L.S.		
	Gravel foundation works	2.0	н3		
4-2-4	Concrete works (1:3:6)	1.7	и3		
4-2-5	Reinforcement bar works	100	Kg	14	
4-2-6	Forming works	2.0	M ₂	artat 1	
4-2-7	Concrete brick works	4.0	м3	at a la tra	•
	Plastering works (mortar 20m/m	25.5	MS		
4-2-9	Furnish and install of roof	13.0	NS		. :
4-2-10	Furnish and install of column	1	L.S.		
4-2-11	Plumbing works	li	L.S.		:
4-2-12	Miscellaneous works and others	3 1	L.S.		
	Sub-total				22,000.00

					Ki -3
ITEM NO.	WORK DESCRIPTION	Q • TY	UNIT	UNIT PRICE	TNUOMA
5.	Bathing Shed (10 Rooms)				
5-1-1	Transportation	1	L.S.		:
5-1-2	Earth work and leveling works	ı	L.S.		
5-1-3	Gravel foundation works	7.1	н3		
5-1-4	Concrete works (1:3:6)	6.5	и3		
5-1-5	Reinforcement bar works	390	Kg		
5-1-6	Forming works	7.5	ИS		
5-1-?	Concrete brick (wall) works	76.0	MS		
5-1-8	Plastering works (mortal 20m/m	31.5	МS		
5-1-9	Furnish and install of roof	54.0	MS		
5-1-10	Furnish and install of column	1	L.S.		
5-1-11	Plumbing works	1	L.S.		
5-1-12	Miscellaneous works and others	1	L.S.		1
	Sub-total				40,000.00
6.	Waste Water Drainage				
6-1-1	Transportation	1	L.S.		
6-1-2	Earth work and leveling works	1	L.S.		
6-1-3	Concrete works (1:4:6)	0.75	м3		
6-1-4	Concrete brick works	7.5	MS		si.,
6-1-5	Gravel works (40-60 m/m)	10.5	м3		
6-1-6	Ceramic pipe works (Ø100 m/m)	30	• м	:	
6-1-7	Miscellaneous works and others	1	L.S.		•
	Sub-total	111		•	7,000.00
7.	Distribution Pipe (L=50 ^m X 3 p	laces)			
7-1-1	Transportation		L.S.		:
:	Haterials for distribution	_	L.S.		
	Earth works and installation		L.S.	jes e e eje	
	Kiscellaneous works and others		L.S.		:
	Sub-total				•
Grand	Total				169,055.00

Other Camp (1 Camp)

Other	· Camp (1 Camp)		e de la compansión de l	To a female	o -1
ITEM NO.	WORK DESCRIPTION	Q'TY	דואט	UNIT PRICE	AMOUNT (Ksh)
1.	Well Construction			tikusta — Lag	
1-1	Well Construction (Ø 2500 m/m)				· .
1-1-1	Transportation	1	L.S.		
1-1-2	Digging well	17	М		
	Furnish and install of well casing	17	н	kolu 1986 - Hay S	
1-1-4	Gravel packing and cement sael	1	L.S.		
1-1-5	Covering of well	1	L.S.		
1-1-6	Miscellaneous works and others	1	L.S.		· . • .
	Sub-total				17,000.00
1-2	Existing Well Repairing				
	Transportation		L.S.		
l .	Repairing of well		L.S.		
	Covering of well		L.S.		
	Miscellaneous works and other	3 _	L.S.		
	Sub-total	- :			
2.	Water Drauing Instruments Windmill				
2-1		2	L.S.	7	
	Transportation Complete windmill unit	-	L.S.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Install of windmill		L.S.		
1 .	Miscellaneous works and other		L.S.		
2-1-9	Sub-total	3 -			
	200-total		ļ		
2-2	Windmill Repairing	,			
	Transportation	:	L.S.		
1	Repairing of existing tower	-	L.S.		
2-2-3	Replace the complete windmill		L.S.		
2-2-1	Miscellaneous works and other	6 _	L.S.		+ # - #
	Sub-total				
2-3	Hand Pump				
	Transportation	1	L.S.		
2-3-2	Complete hand pump unit	1	L.S.]
1 .	Install of hand pump	1	L.S.		
2-3-4	Miscellaneous works and others	3 1	L.S.		
]	Sub-total				8,200.00

ITEM NO.	WORK DESCRIPTION	Q TY	TINU	UNIT PRICE	AMO
3.	Construction of Water Reservoi	r Tank	(11 H	³)	
3-1-1	Transportation	es	L.S.		<u>:</u>
3-1-2	Basis work and leveling works		L.S.		
3-1-3	Furnish and install of water reservoir tank complete with	1 †			. :
	necessary coating	- ,	L.S.		
3-1-4	Plumbing works	<u> -</u> 1	L.S.		1 4 1
3-1-5	Miscellaneous works and others Sub-total		L.S.		,i •
4.	Communal Water Point				. P
4-1	Platform around well	:			* *
4-1-1	Transportation	1	L.S.		
	Earth work and leveling works	1	L.S.	: .	
	Gravel foundation works	2.3	M3		ł .
	Concrete works (1:3:6)	2.0	и3 М3		100
	Reinforcement bar works	120	Kg		
	Forming works	8.0	HS WR		
	Hiscellaneous works and others	1	L.S.		
	Sub-total	1	B.5.		3,0
4-2	Communal water point				
4-2-1	Transportation		L.S.		
4-2-2	Earth work and leveling works	. 1	L.S.		
4-2-3	Gravel foundation works		_M 3		
4-2-4	Concrete works (1:3:6)		н3		
4-2-5	Reinforcement bar works		Kg		
4-2-6	Forming works		M2 .		<i>.</i>
4-2-7	Concrete brick works	-	и3		
4-2-8	Plastering works (mortar 20m/m) <u>.</u>	M2		. :
	Furnish and install of roof	<u>.</u>	MS		
	Furnish and install of column	7 2 <u>7 23</u> 7	L.s.	eta en la companya de la companya della companya de la companya della companya de	
	Plumbing works	_	L.S.		
4-2-12	Miscellaneous works and others	~	L.S.		٠,
	Sub-total			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e Paristo i
		;			
				the state of	
	ang makan merekangan terbahan berahan merekana		·	n in de la companya di	

item No.	WORK DESCRIPTION	Q'TY	UNIT	UNIT PRICE	TUUOMA
5.	Bathing Shed (Rooms)				
5-1-1	Transportation	_	L.S.		· · · · · · · · · · · · · · · · · · ·
5-1-2	Earth work and leveling works	_	L.S.		
5-1-3	Gravel foundation works	_	м3		
5-1-4	Concrete works (1:3:6)	· _	м3		
5-1-5	Reinforcement bar works	-	Кg		l (Sections)
5-1-6	Forming works		MS		
5-1-7	Concrete brick (wall) works	_	ИЅ		
· I	Plastering works (mortal 20m/m		NS.		
	Furnish and install of roof		МS		
·	Furnish and install of column		L.S.		
1	Plumbing works		L.S.		
·	Miscellaneous works and others		L.S.		
	Sub-total				
		 			
6.	Waste Water Drainage				
	Transportation		L.S.		
	Earth work and leveling works	1	L.S.		
	Concrete works (1:4:6)	1			
	Concrete brick works	0.25	M2	i i i i i i i i i i i i i i i i i i i	
	Gravel works (40-60 m/m)	2.5	M3	English to	
	Ceramic pipe works (Ø100 m/m)	3.5	M		
	Niscellaneous works and others	10	L.S.		-
0-1-7	Sub-total	1	L.S.		2,000.0
	Suo-totai				2,000.0
Ž	Distribution Pipe (L=50 ^m X 3)	laces)			
7-1-1	Transportation	-	L.S.		
7-1-2	Materials for distribution	_	L.S.		
7-1-3	Earth works and installation		L.S.		
7-1-4	Miscellaneous works and other	.	L.S.		
	Sub-total				
					<u> </u>
Grand	Total				30,200.0
	L			aleman de la	
		e de la companya de l			
		l i de de de	5. 5.6		
		:			
	A-83				

ITEM NO.	WORK DESCRIPTION	Q,TY	דואט	UNIT PRICE	AMOUNT (Ksh)
1.	Well Construction				
1-1	Well Construction (Ø 2500 m/m)				
1-1-1	Transportation	-	L.S.		1 T .
1-1-2	Digging well	-	м		
1-1-3	Furnish and install of well casing		м		
1-1-4	Gravel packing and cement sael	_	L.S.		
1-1-5	Covering of well	da	L.S.		
1-1-6	Miscellaneous works and others	_	L.S.		. :
	Sub-total		:		± ==
1-2	Existing Well Repairing				
1-2-1	Transportation		L.S.	100	
1-2-2	Repairing of well		L.S.		
1-2-3	Covering of well		L.S.		
1-2_4	Miscellaneous works and others		L.S.		
	Sub-total				
ż.	Water Drauing Instruments				
2-1	Windmill	•			
2-1-1	Transportation		L.s.		
2 -1 -2	Complete windmill unit	-	L.S.		
2-1-3	Install of windmill	. =	L.s.		
2-1-4	Miscellaneous works and others		L.S.		
	Sub-total				
2-2	Windmill Repairing			· · · · · · · · · · · · · · · · · · ·	
2-2-1	Transportation		L.S.		
2-2-2	Repairing of existing tower	÷	L.S.		
	Replace the complete windmill	_	L.S.		
	Miscellaneous works and others		L.S.		
	Sub-total	,			
2-3	land Pump				
2-3-1	Fransportation	-	L.S.		Soft All St
2-3-2	Complete hand pump unit	_	L.S.		
2-3-3	Install of hand pump		L.S.	*.	
2-3-4	discellaneous works and others	-	L.S.	:	ı
i	Sub-total				-

ITEM NO.	WORK DESCRIPTION	Q'TY	UNIT	UNIT PRICE	TNUOMA
3.	Construction of Water Reservoi	r Tank	(11 M ³)	
3-1-1	Transportation	- 1	L.S.		
3-1-2	Basis work and leveling works		L.S.		
3-1-3	Furnish and install of water		٠		
	reservoir tank complete with necessary coating		L.S.		
3-1-4	Plumbing works	**	L.S.		
	Miscellaneous works and others	_	L.S.		
	Sub-total			or and stated assessment of the stated asset as a stated	· -
4.	Communal Water Point				;
4-1	Platform around well				
4-1-1	Transportation	; •••	L.S.		
4-1-2	Earth work and leveling works	_	L.S.		
4-1-3	Gravel foundation works		м3		
4-1-4	Concrete works (1:3:6)	_	м3		
4-1-5	Reinforcement bar works	_	Kg		
4-1-6	Forming works		MS	·	
4-1-7	Miscellaneous works and others	_	L.S.		
	Sub-total				dia dia
4.2	Communal water point				
4-2-1	Transportation	1,	L.S.		
4-2-2	Earth work and leveling works	1	L.S.		
4-2-3	Gravel foundation works	2.0	м3		
4-2-4	Concrete works (1:3:6)	1.7	N ³		
4-2-5	Reinforcement bar works	100	Kg		
4-2-6	Forming works	2.0	N _S	·	
4-2-7	Concrete brick works	4.0	м3	: .	14.1
1	Plastering works (mortar 20m/m		MS		
4-2-9	Furnish and install of roof	13.0	M ₂		
	Furnish and install of column	1	L.S.		
4-2-11	Plumbing works	1	L.S.		
4-2-12	Miscellaneous works and others	1	L.S.		
	Sub-total				25,000.00

		r/			М
ITEM NO.	WORK DESCRIPTION	Q'TY	UNIT	UNIT PRICE	AMC
5.	Bathing Shed (5 Rooms)				
5-1-1	Transportation	. 1	L.S.		: -
5-1-2	Earth work and leveling works	. 1	L.S.		
5-1-3	Gravel foundation works	3.9	м3		:
5-1-4	Concrete works (1:3:6)	3.4	м3		
5-1-5	Reinforcement bar works	204	Kg		
5-1-6	Forming works	5.0	MS		* :
5-1-7	Concrete brick (wall) works	46.2	M ₂		,
5-1-8	Plastering works (mortal 20m/m) 15.6	M2		
5-1-9	Furnish and install of roof	27.0	ИS		
5-1-10	Furnish and install of column	1	L.s.		
5-1-11	Plumbing works	1	L.S.		
5-1-12	Miscellaneous works and others	1	L.s.		
:	Sub-total				20,00
6.	Waste Water Drainage	:			
6-1-1	Transportation	1	L.S.		
	Earth work and leveling works		L.S.		
	Concrete works (1:4:6)	1 0.5	и3		
	Concrete brick works		И2		
	Gravel works (40-60 m/m)	5.0 7.0	. НЗ :		
	Ceramic pipe works (Ø100 m/m)	2.0	М		
	Miscellaneous works and others	1 .	L.S.		
	Sub-total	- L	Б.б.	:	5,00
7.	Distribution Pipe (L=50 ^m X 3 p				
	Transportation				1
	Materials for distribution	1	L.S.	eri e e	
	Earth works and installation	1	L.S.		
		1	L.S.		1 10 11 1
1 - T - 1	Miscellaneous works and others	1	L.S.		
	Sub-total				8,0

COST FOR CONNECTION WITH MAIN PIPE

Pipe	2"Ø G.I.	78 shr/m	50 m
Tees	2" X 2" G.I.	36 shr/Unit	1
Nipples	2" G.I.	18.8 shr/Unit	3
Full Way Valves	2"	150 shr/Unit	77 - 1 1 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -
Reducing Socket	$2^{n} \times 1^{\frac{1}{2}} = G.1$	20.4 shr/Unit	1
Nipples	$1-\frac{1}{2}^{n}$ G.I	13.7 shr/Unit	2
Reducing Socket	$1\frac{1}{2}$ "X 1 " G.I.	13.5 shr/Unit	2
Bends	1" G.I.	16.4 shr/Unit	2
Stop Cock	1"	150 shr/Unit	2
Union	211	55 shr/Unit	1
Union	1"	20.4 shr/Unit	2
	Sub. Total:	4,645.8 shr	
Transportation	25 % of the above	ve 1,161 shr	: ● ::*
Labour Charge	20 shr/m 50 m	1,000 shr	
Agency Fee	15 % of the above	ve 1,021 shr	
	T o t a 1:	7,830 shr	Say 8,000 shr

1. 1. P. P. B. J. P.

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The Gray Care

PRICE SCHEDULE FOR DEPARTMENTAL RIGS TO BE CHARGED AS FROM JANUARY, 1980 ONWARDS

			•	
ITEM	DESCRIPTION OF WORKS	UNIT	RATE FOR R/RIGS	RATE FOR P/RIGS
1.	Mobilisation and transport or whole	km	76.00	15.00
	drilling unit fromto			
	drilling sites and			
:	back			
2.	- Ditto- erecting and dismantling of			
	whole drilling unit on the site	1s	11,930.00	7,500.00
3.	Dismartling, shifting and erecting		r de la companya de La companya de la co	
0.	of whole unit form one site to the			
	next, if working in one area for	ls	12,690.00	2,550.00
	the same project		•	•
•		4		
4.a	For unconsolidated rock		070.00	221 00
	drilling 152 mm Ø	m	270.00	334.00
	" 203 mm Ø	, m	314.00	527.00 750.00
	" 254 mm Ø	m	468.00	
i	11 305 mm Ø	, ED	600.00	950.00
	" 360 mm Ø	m	1,250.00	1,250.00
4.b	For consolidated rock		100	I.
4.0	Drilling 152mm Ø	m ·	314.00	334.00
	" 203mm Ø	TO.	468.00	468.00
	1' 254mm Ø	m	600.00	600.00
	" 305mm Ø	ED.	750.00	750.00
5.a	Supply and insert plain stee	*	A. Leenaka	:
Jia	casing a) 152 mm Ø	. m	408.00	408.00
	b) 203 mm Ø	10	480.00	480.00
	c) 254 mm Ø	m m	656.00	656.00
14	d) 305 mm Ø	m	800.00	800.00
		•		
6.	Supply and insert slotted	* *	500 00	500.00
	casing a) 152 mm Ø	w	508.00	508.00
	b) 203 mm Ø c) 254 mm Ø	m	580.00	580.00 756.00
	с) 234 ни у	TÅ.	756.00	750.00
7.	Supply and insert Bridge			
	slotted casing			
	a) 152 mm Ø	Ω	3,400.00	3,400.00
	ь) 203 mm Ø	m	4,580.00	4,580.00
• .	Supply and insert plain Dura	gyt.	201.00	201.00
J* +	pipes supply and insert slotted Dura pipes	m ·	201.00	202100
	(screen)			0 100 00
	d) 152 mm Ø	, m	3,400.00	3,400.00
	e) 203 mm Ø	ជា	4,250.00	4,250.00
	A-88	,		

ITEM	DESCRIPTION	UNIT	RATE FOR R/RIG	RATE FOR P/RIG
8.	Supply and insert Johnsons screen			
:	a) 152 mm b) 203 mm	m m	3,400.00 4,250.00	3,400.00 4,250.00
9.	Only inserting casing	m	150.00	150.00
10.	Supply and insert gravel pack	_m 3	1,000.00	1,000.00
11.	Supply and cementation work	_m 3	700.00	700.00
12.	Developing work including inserting			.1 -
:	and removal of development equipment	Hr	317.00	317.00
13.	Installation and removal of test pump equipment	Hr	317.00	317.00
14.	Test pumping	Hr	317.00	317.00
15.	Preparation of well head with well	İs	1,000.00	1,000.00
, : + 1	cap, serial No. and cement plate $1.0 \times 1.0 \times 0.5 \text{ m}^3$ around well head			
16.	Supply water for drilling operations and field camp	13	2,000.00	2,000.00
17.				24.5 . 3.5 .
	154 mm to 219 m 219 m to 311 m	m m	150.00 252.00	N/A N/A
	311 m to 381 m	œ	37,377.00	N/A
18.	Cementation work slotted casing 203 m	n Ø Hrs.	317.00	317.00
19.	Water casing pipes steel size 6"			
	Casing 6m (long) with collars 6"	m	462.00	462.00
	Casing reduced 8" to 6"	n	742.50	742.50
	Shutter screens size 6"	No.	3,630.00	3,630.00
	with collars	M	1,089.00	1,089.00
	Shutter screens standard size 8"	m	1,419.00	1,419.00
20.	cleaning	Hr	317.00	317.00
21.	Removal of casing	Hr	317.00	317.00
22.	Waiting time	Hr	317.00	317.00
23.	Formation of sampling	No.	50.00	50.00
24.	Water sampling	No.	100.00	100.00
25.	Extracting of casing	Hr	317.00	317.00
26.	Other works (specify)			

Your Ref.....

Our Ref ME/JICA/03/83.

M/s'. Japan International CO-operation Agency, (J.I.C.A).

Dear Sirs.

RE: REPAIRING AND PLASTERING OF SHALLOW WELL.

This is in reference to our survey of Well Number one after Ramisi sugar Factory where we discovered that your Well is 7ft. deep with a diameter of IIft.

We shall do the Plastering of the Well covering the IIft. diameter of it with cement and sand.

To complete the whole job to your satisfaction Labour, Material and Transportation inclusive will be Kehs. 4,500.00.

QUOTATION FOR THE HAND FORCE PUMP.

The cost for installing a hand force pump on the above Well with complete necessary fittings, pipes, Rods. Cylinder Pump Transportation and Labour will be Kshs. 8,200.00

QUOTATION FOR WATER RESERVOIR TANK.

To construct a concret cement tank for I2,000 litres Material to be used will be coral block, Steel, Blast sand and cement.

The storage tank will be the same as the enclosed photo this tank will be supplied together with fitting of I inch, outlet pipe and 4 gate valves.

The roof of the Tank will be covered with G.I.C Sheets Galvanised'.

To complete the whole work as per our above specifications will be Kshs'. 29,350.00.

Note that the above quotation implies only on our own plan of Construction and should therebe any; alterations on it then the quotation will be liable for a change.

Yours faithfully,

Date: 7th February 1983

M/s'. Japan International Co-operation (Agency)

Dear Sirs,

QUOTATION FOR DIGGING SHALLOW WELL.

With reference to the above we have to inform you that it will cost you Kshs. IOOO.OO per metre depth with a diameter of 2½ metres. The surrounding diameter of the Well will be done by Coral block(Calbat) Cement work and Plastering. The top of the Well will also be covered.

The above quotation price includes Transport, Material and Miscellaneous.

Note that the place for the Well to be dug will be duly authorised by yourselves.

Yours faithfully,

Your Ref.

Our Ref ME/JICA/02/83.

M/s. Japan International Co-operation Agency, (J.I.C.A).

Dear Sirs.

QUOTATION FOR WINDMILL.

With reference to our survey on your site on well No. I after the Ramisi Sugar Factory we append below the specifications and quotation for the type of the Windmill that would be suitable for it.

1. SPECIFICATION OF THE WINDMILL.

- (a) Rotor size I2ft Galvanised and mild steel
- (b) Tower size 25ft high from ground level
- (c) Gear Reduction type
- (d) Strong Concrete foundation for the Tower
- (e) Suction Pipe 22" diameter
- (f) One Cylinder Pump and all necessary fittings
- (g) One outlet Pipe to the reservoir tank 20ft.
- (h) Structure work mild steel Angle line.

We paint our Windmill with special corrosion proof paint undercoat and the finishing coat of Con Blue Robbialac.

I'. The complete Windmill Unit will be Kshs!	34,500.00
2% Transportation of the Windmill Kshs.	1,250,00
3. Installation charges Kshs.	2,950.00
4. 15% Government Sale Tax Kshe. Ngtt amount Kshe.	5,805,00 44,505,00

Yours faithfully.

Date: 4th February, 19831.

Your Ref.....

Our RefME/JICA/OI/83.

M/s'. Japan International Co-operation Agency, (J.I.C.A).

Dear Sirs,

RE: QUOTATION FOR THE REPAIR OF A WINDMILL ON WELL NO. 2 BEFORE RAMISI SUGAR FACTORY FROM MOMBASA.

With reference to our visit on your above mentioned Well we have to inform you that the whole of your Windmill Unit needs to be replaced.

The following will be supplied by ourselves:-

- (a) One New Rotor 12ft.
- (b) Reduction Gear Box
- (o) Tail
- (d) Brake System
- (e) Suction Pipe and Outlet Pipe
- (f) One Cylinder Pump
- (g) Complete Painting of the Windmill.

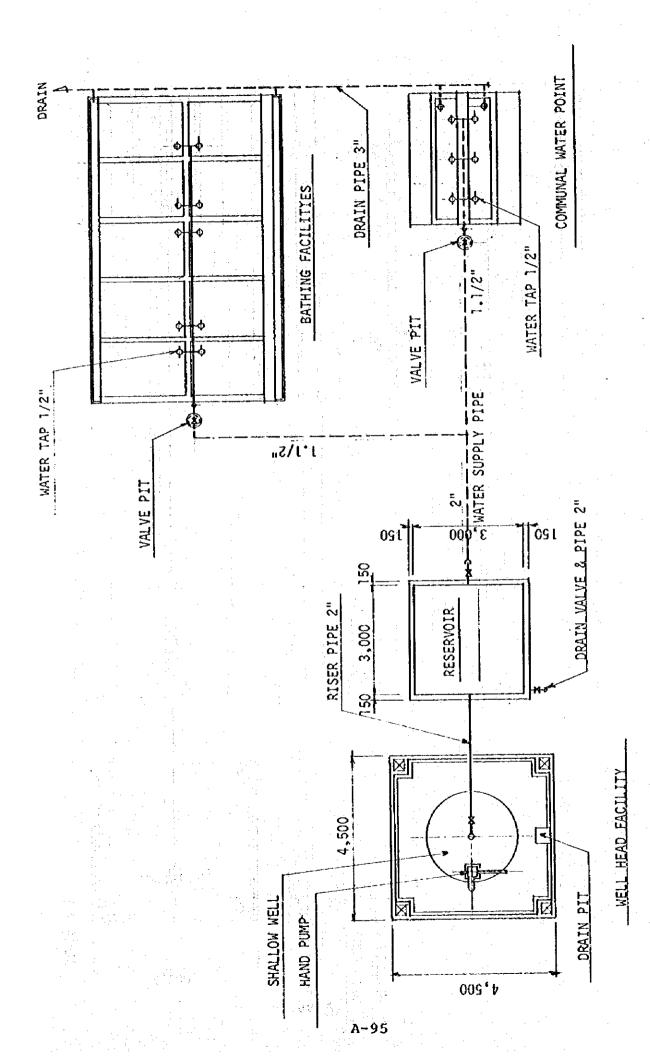
We have to guarantee that the Windmill will be in full operation after all the above mentioned necessisties will have been applied (fulfiled).

The complete Windmill Unit, Transportation, Labour and Material inclusive will be Kshs. 33,350.00.

The hand force pump to be installed on the same well Labour, Material, Transport will be Kshs'. 8,200.00.

Yours faithfully,

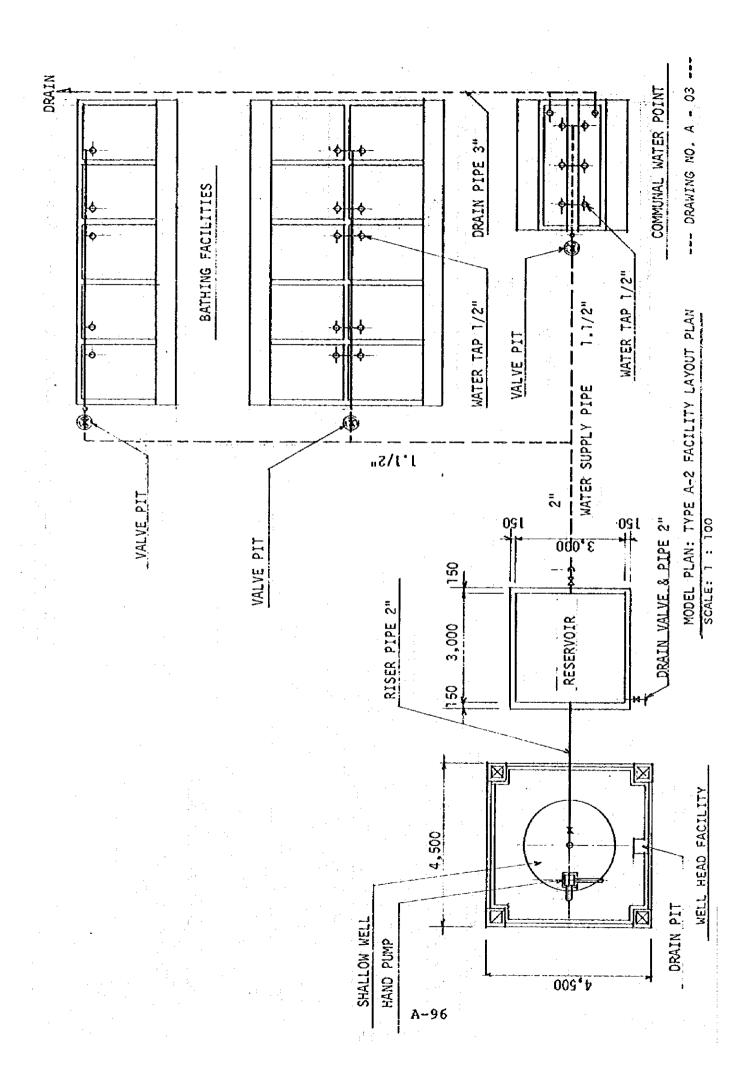
HAND PUMP

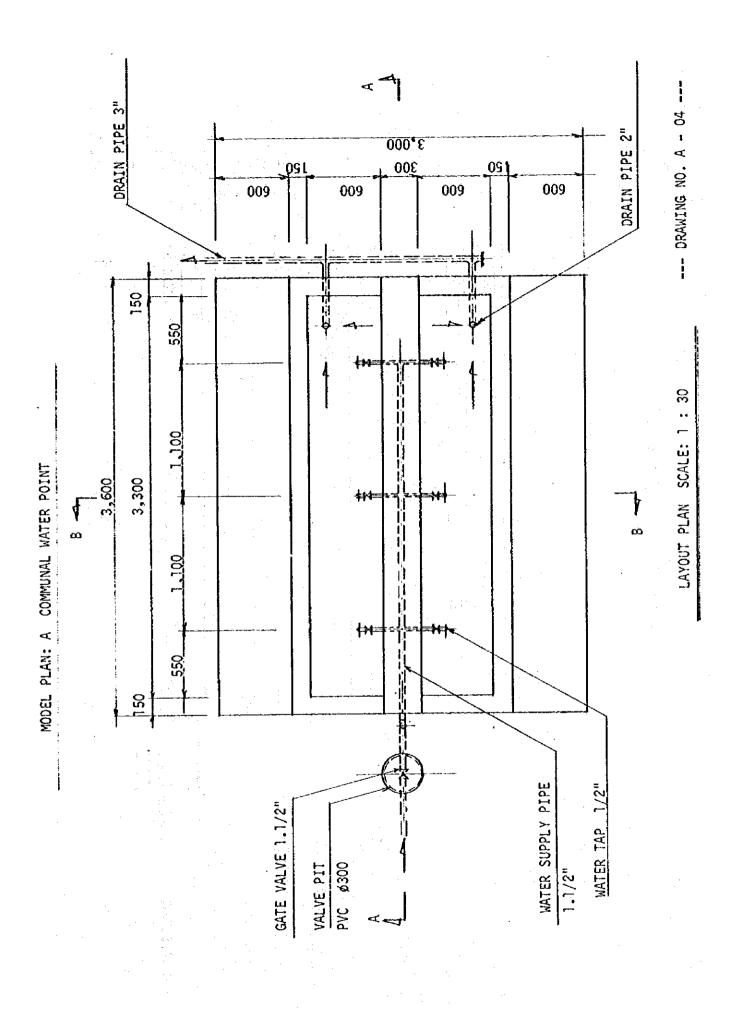


MODEL PLAN: TYPE A-1 FACILITY LAYOUT PLAN

--- DRAWING NO. A - 02 ---

SCALE: 1 : 100

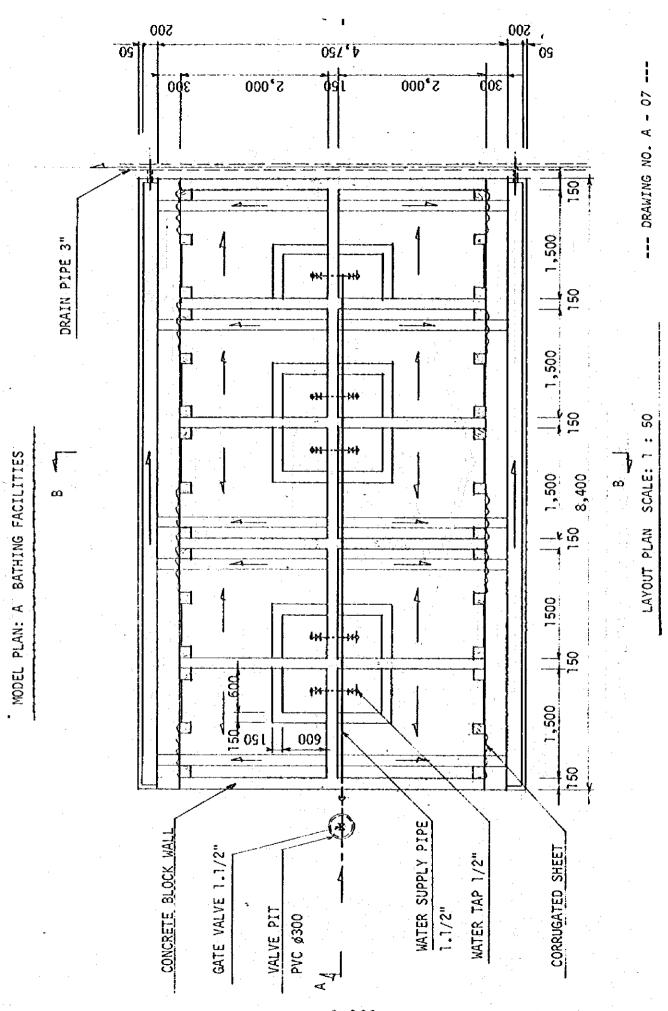




SCALE: 1 : 30

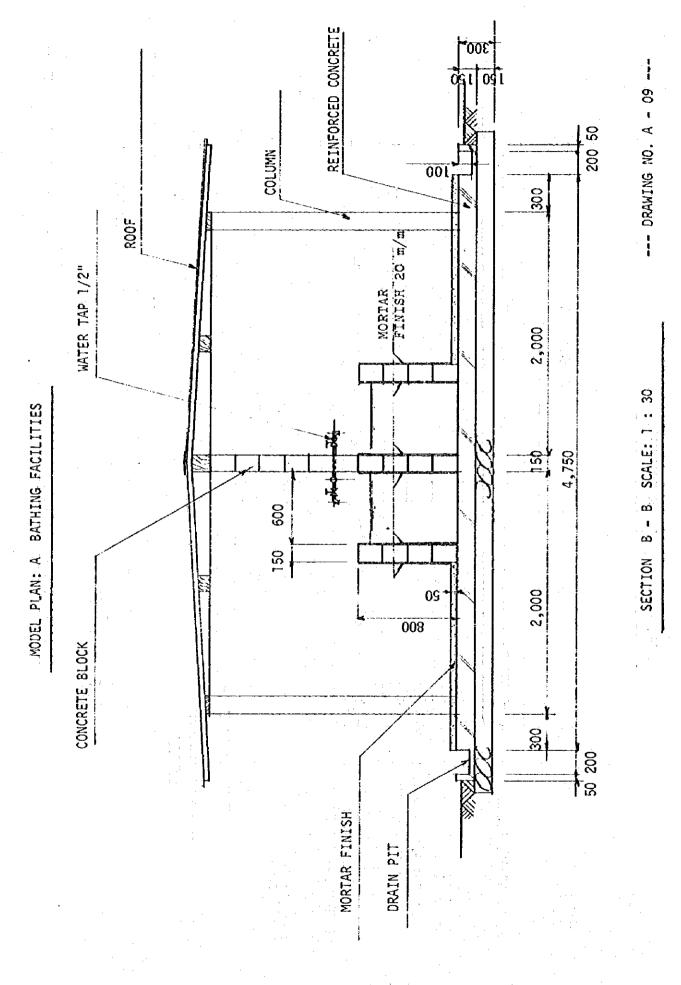
MODEL PLAN: A COMMUNAL WATER POINT

MODEL PLAN: A COMMUNAL WATER POINT

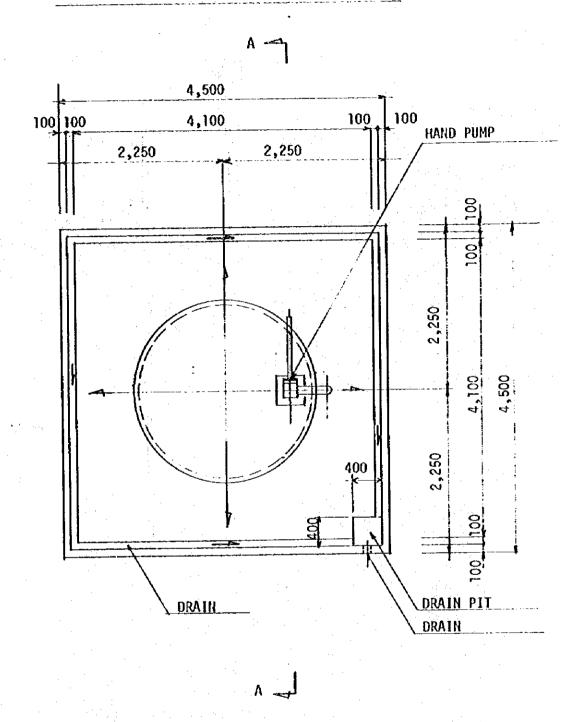


MODEL PLAN: A BATHING FACILITIES A

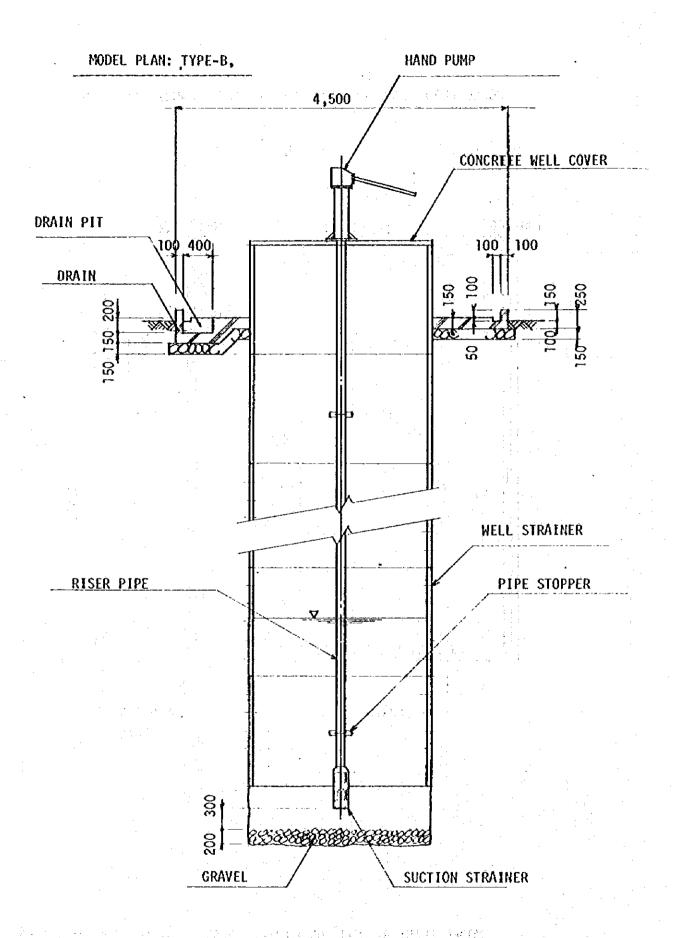
A-101



A-102

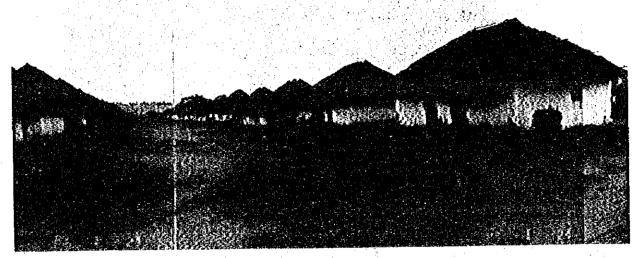


MODEL PLAN: B WELL HEAD LAYOUT PLAN --- DRAWING NO.8 - 10
SCALE: 1:50

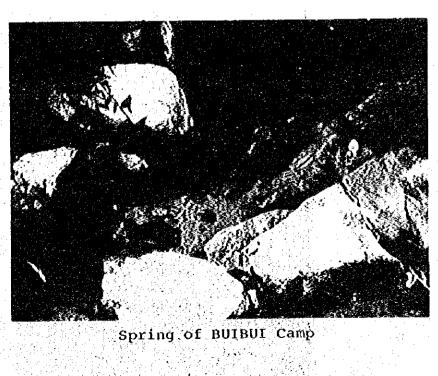


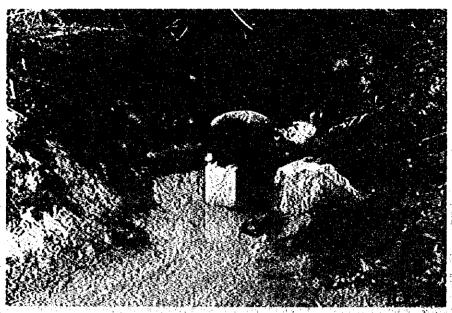
MODEL PLAN: B SHALL WELL SECTIONAL VIEW --- DRAWING NO.B - 11 SCALE: 1:50

APPENDIX 13 PHOTOGRAPHS

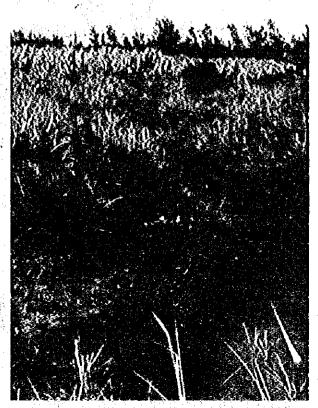


View of BUIBUI Camp

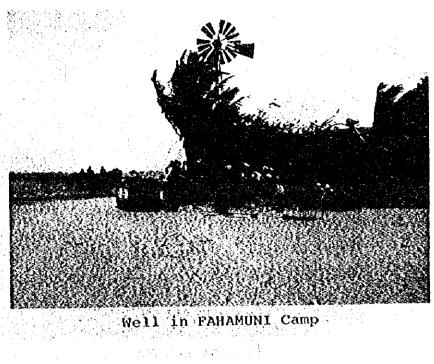




Taking Water from Spring



Another Spring in BUIBUI Camp



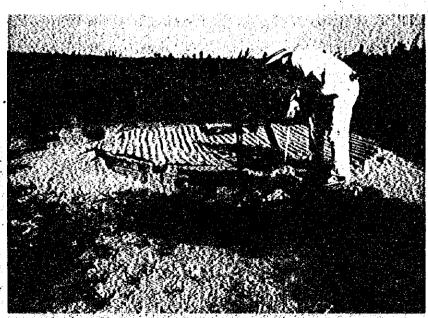


Taking Water from the Well

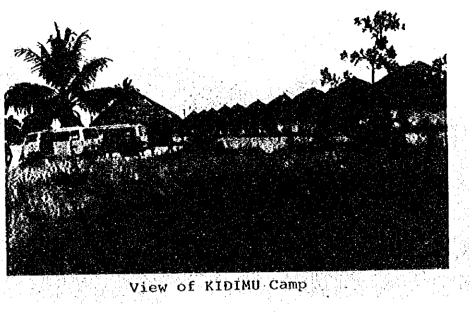


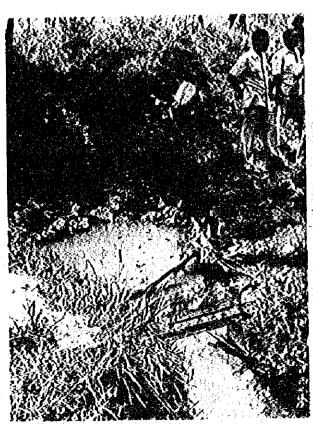


View of KANANA Camp



Leveling the Well Water in KANANA Camp





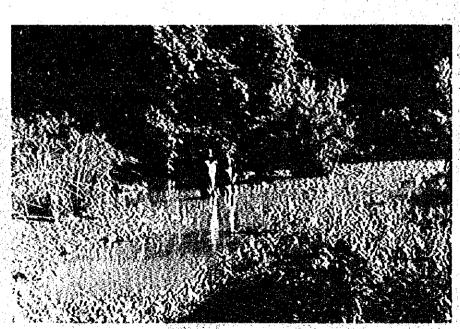
Spring in KIDIMU Camp



Well & Bathing Room in KIDIMU Camp



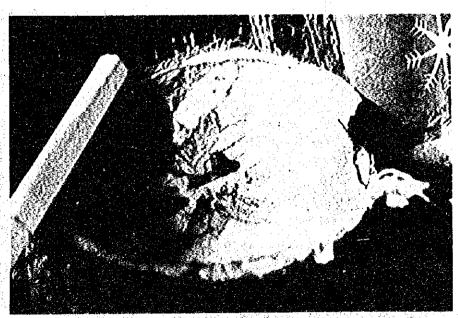
View of PEMBA River in MWACHINGA Village



Bathing in the River



Branch of the PEMBA River (Survey Point No. 23)



Snail which Miracidium Penetrates in

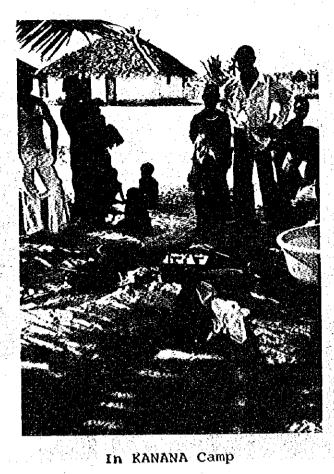
ELECTRICAL PROSPECTING SURVEY



Electrical Prospecting Survey in BUIBUI Camp

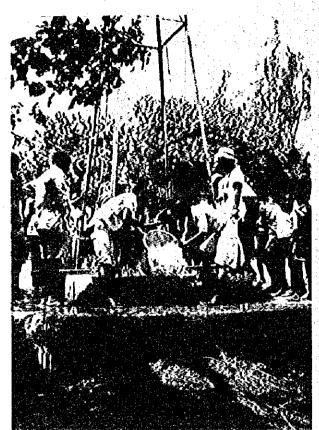


In FAHAMUNI Camp





PUMPING TEST



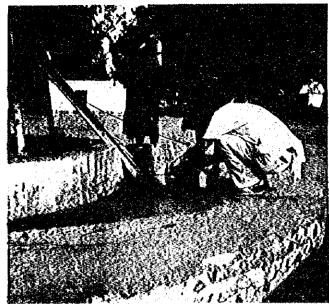


Pumping Test in FAHAMUNI Camp



In KANANA Camp

WATER SAMPLING



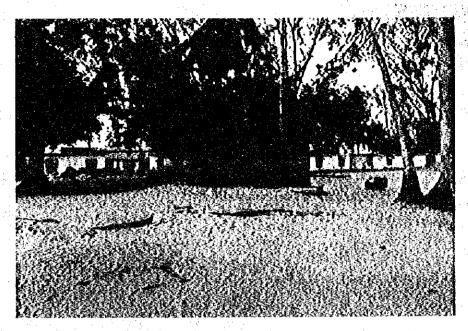
FAHAMUNI Camp



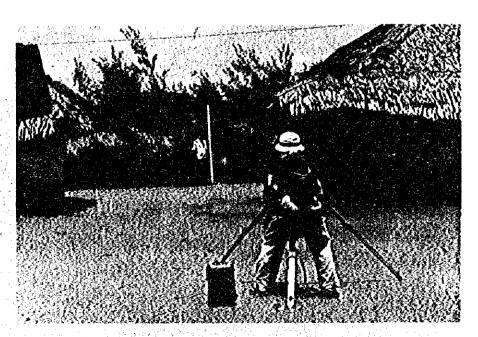
KANANA Camp



KIDIMU Camp



Toilet Room in FAHAMUNI Camp

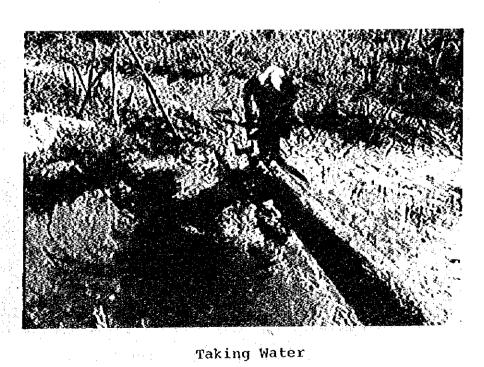


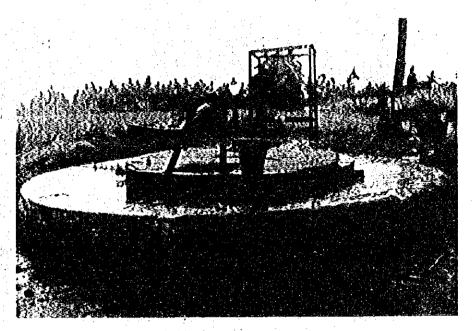
Field Survey in BUIBUI Camp

AROUND THE PROJECT AREA

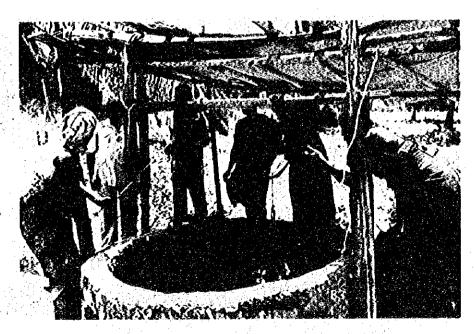


Spring in KIDIMU Village



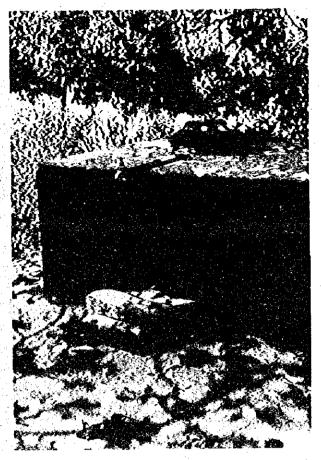


Well in KIWANBALE Camp

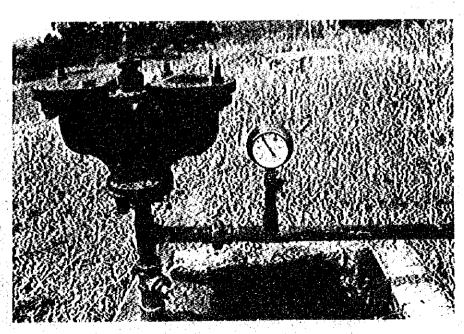


Taking Water from Well

EXISTING FACILITY OF PIPE WATER



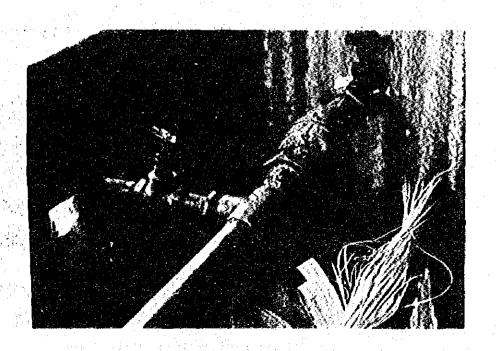
Tap in MWACHINGA Village



Abstruction from Main Pipe



Kiosk in MSAMBENI



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