APPENDIX 5 OTHER RELEVANT DATA/INFORMATION

Ap 5-1 Results of Water Source Survey

5-1-1 Hydrogeological Survey

In the target area, about 700 dug wells and 200 boreholes are confirmed. The dug wells are mostly hand dug to about 15 m depths, and groundwater is drawn from shallow aquifers found in weathered zones near the surface and sand layers of sedimentary formations. The yields of dug wells are about 2 m 3 /day. The boreholes were drilled by donors and DWA drillers down to about 50 to 60 m, and these targeted mainly fissure water found in fractures and cracks of rock formations of the Pre-Mesozoic Era. The production rates of these boreholes are about 6 m 3 /day.

The geology and groundwater potentials of the target area are explained below. The geological strata and groundwater potential in the target area are shown below.

Geological Strata and Groundwater Potential in Target Area

Geological Era	Group	Formation	Rocks and Sediments	Aquifer	Groundwater Potential	Note
Cenozoic	Cenozoic	Alluvium	Sand and gravel. Mixed with viscous soil around lakes	Sand and gravel layers		
Cenozoic	Group	Kalahari Formation	Fine sand and sandstone mixed with viscous soil	Sand layer		
Mesozoic	Karroo Group	Upper Karroo Formation	Basalt, shale, sandstone, mudstone, siltstone	Weathered zone		Weathered materials are viscous. Clay filled in cracks
Paleozoic	Katangan Group	Kundelungu Formation	Carbonate rock with shale, shale, siltstone, mudstone	Weathered zone, fissures		Distributed layer thickness is few metres in target area.
Pre-Cambrian	Basement Rock and Muva	Muva Formation	Quartzite, quartz-schist, shale, mudstone, sandstone	Fissures, fractures		High potential in mudstone and sandstone layers, but low potential in quartzite and quartz-schist layers.
	Group	Basement Rock	Granite, gneiss, migmatite, schist	Weathered zone, fissures, fractures		Mainly granite distribution
Intrusive rock and metamorphic rock	Intrusive metamorph	rock and nic rock zone	Igneous rocks, amphibolite, metamorphic sedimentary rocks, metamorphic igneous rocks	Weathered zone, fissures, fractures		Basalt dikes found in parts of target area

N.B.: Possibility for high potential, Limited or low potential

The groundwater potentials for geological formations of the Northern Province are listed below.

Groundwater Potential by Geological Formations in Northern Province

Aquifer	Borehole Depth (m)	Aquifer Thickness (m)	Yield (lit/sec)	Specific Capacity (m²/day/m)
Limestone, dolomite	51.7	18.0	4.7	50.2
Schist	60.0	19.4	1.5	4.2
Sand, gravel	39.2	17.0	1.5	25.9
Granite	51.8	20.0	1.1	5.7
Sandstone	60.0	23.0	1.8	10.5
Quartz	55.0	17.0	1.6	6.0
Gneiss	49.0	15.0	0.7	2.3
Shale, mudstone, etc.	60.0	15.5	1.5	5.7
Others	60.0	21.0	2.8	15.6
Average	54.1	18.4	1.9	9.96

Source: "Hydrogeology and Borehole Drilling in Northern Province", 2002, DWA.

Granite Group

This formation is distributed as the basement rock in all parts of the target area. In Isoka district, gneiss (metamorphosed granite) and migmatite (Photo-5) are confirmed. In parts of the target area, hard rocks which cannot become weathered called inserberg (Photo-3) can be found. In general, cracks and fractured zones (Photo-1 & 2) are developed and give potential as fissure water. Apart from Mpulungu district, the existing boreholes are pumping water mostly from fissure water of granite formations. Many of these formations show weathered surface layers and also they have transformed into laterite (Photo-15).

· Quartzite and Quartz-Schist

Quartzite and quartz-schist of the Muva group are distributed in parts of Mpika and Chinsali districts, and all of Mpulungu district. In Mpika and Chinsali districts, quartzite could not be confirmed from outcrops, but only as gravel in weathered granite formations on the surface. Quartzite and quartz-schist are distributed to cover almost all parts of Mpulungu district, and portions of this

formation distribute into the western part of Mbala district. Layer thicknesses are estimated from a few metres to some tens of metres. Quartzite formations are massive and have few cracks (Photo-6), and existence of fissure water is limited.

Sedimentary Rocks (excluding Quartzite)

Sedimentary rocks of the Muva group, Sandstone, Mudstone and Shale are distributed in Mpika, Chinsali and Isoka Districts, but the field survey showed that clustered distributions of these formations could not be confirmed in Mpika and Chinsali Districts. In Isoka District, sandstone formations layered on granite and migmatite could be found (Photo-8). In Luwingu District, the clustered distribution of conglomerate similar to the Karroo Group can be confirmed.

Formations of shale of the Muva group are distributed in the southern part of Mpulungu District. In the area around Lake Tanganyika of Mpulungu District, chart (Photo-10) and slate (Photo-9) thought to be of the Muva group form the basement rock, and sandstone, mudstone and shale (Photo-11) of the Karroo group can also be found. Sandstone, mudstone and shale of the Muva group are hard, and cracks and fractures are developed giving potential for existence of fissure water. On the other hand, although sandstone of the Karroo group is massive with developed cracks, most often the cracks are filled with clay, so that fissure water cannot be highly expected.

· Basalt

In the granite-distributed areas of the target area, continuous formations of basalt dike can be found (Photo-12). In Mpulungu District, small-scale dikes of basalt in the sedimentary rock, quartzite and quartz-schist (Photo-13) can be confirmed with developments of cracks and fractures to give potential for fissure water. In Nakonde and Luwingu Districts, small-scale outcrops of porous basalt (Photo-14) are confirmed.

Hydrogeological Characteristics of Target Area

a) Stratum Water

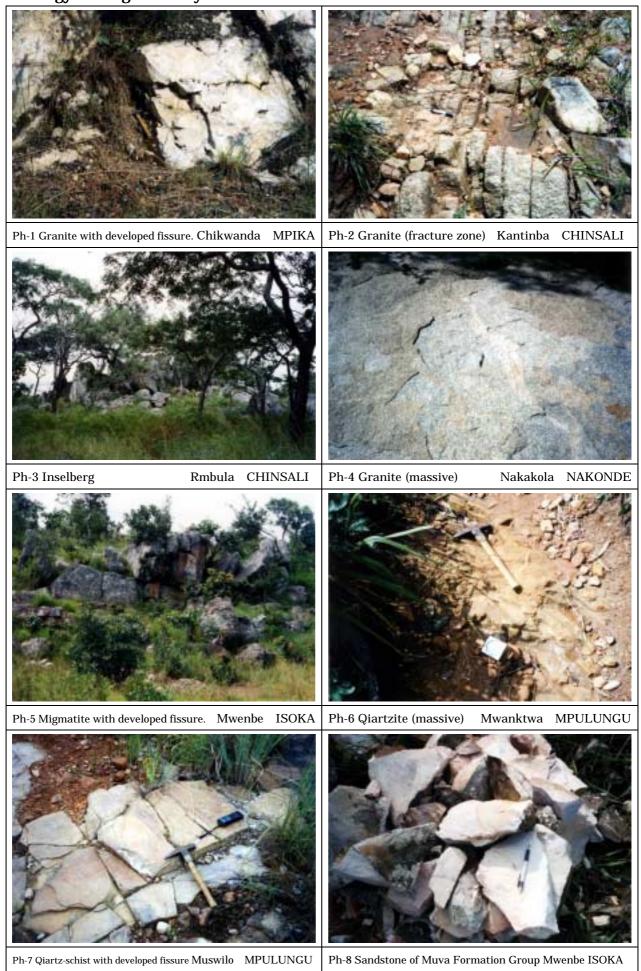
Stratum water is divided into those found in aquifers of sand and sand-gravel layers in alluvium and aquifers of weathered zones of granite formations. Most dug wells pump water from alluvial aquifers, but in the survey area, many dug wells targeting aquifers of weathered zones were found. Also, in Isoka, Nakonde and Mbala Districts, since the weathered zones are thick, boreholes drilled down to about 50 m using weathered zone aquifers were confirmed.

b) Fissure Water

With exception of Mpulungu District, for the existing boreholes in the target area which draw fissure water from rock basements, most of them are drilled into the granite basement. In the granite and sandstone distributed areas of Mpika and Chisali Districts, boreholes are drilled into cracks or fractures in lower layers of granite. Granite forms a fine, hard basement with many faults (Photo-4), but highly developed cracks were seen in granite observed in outcrops.

In Mpulungu District, boreholes drilling are limited to sedimentary rocks of the Muva group in areas along the Tanganika Lake, and shale-distributed areas in the southern part of the district. These rocks are hard with developed cracks and fractures for existence of fissure water. In contrast, quartzite and quartz-schist widely distributed in the district have very few cracks and if cracks are found, they are usually closed to give low potential for fissure water. Past drilling records reveal that success of drilling into quartzite and quartz-schist is almost nil.

Geology of Target Survey Area -1



Geology of Target Survey Area -2



5-1-2 Geophysical Survey

Out of the 300 requested sites, geomagnetic surveys and electrical prospectings were conducted ate 10 sites in each target district to determine the geological structure and groundwater potential. At the selected survey sites, the vertical electrical sounding (VES) was carried out at one point for each site to determine the groundwater depth, and a magnetic survey (VLF) was used to find faults and cracks. Also, if using the magnetic survey was decided to be difficult due to topology and climatic conditions, then the horizontal electrical sounding (HES) was conducted. The survey methods are shown below.

a. Vertical Electrical Sounding Survey

Probe allocation Wenner probe positioning

Maximum probe interval (AB/2) 150 m

No. of measurements One for each site, total 70 points

Measurement equipment ABEM Terrameter SAS300, Atlas Copco

b. Horizontal Electrical Sounding Survey

Probe allocation Wenner probe positioning

Maximum probe interval (AB/2) 30 m, 60 m

No. of linaer measurements 14 measurement lines

Measurement equipment ABEM Terrameter SAS300, Atlas Copco

c. Magnetic Survey

Survey method VLF method Frequency used 27.5 kHz (NWC)

No. of linaer measurements 2 measurement lines per site, total 140

lines (of which 63 lines are valid)

Measurement equipment System WADI, ADEM Instruments

The survey was subcontracted to a local firm and data were analyzed by the consultant. The apparent resitivity curves of the measurements taken and analyses results, as well as HES and VLF cross sections are shown in the following pages. The results of the geophysical survey for each site are listed below.

Results of Geophysical Survey

			Results of Geo	Jily Sicai	Our vey				
District		Site	Source	Depth of High Resistivity Layer	Depth of Median Resistivity Layer	Level Difference between Survey Point and Water Level	HI pro		VLF Profile
				(m)	(m - m)	(m)	30m	60m	
MPIKA	MK-02	Chilonga	Public Tap Water		14-40	no data			
	MK-04	Mpumba Village	Hand Dug Well		7-30	10			
	MK-05 MK-07	Lukulu Village Katongo Kapula	Stream Stream		2-10 ND	12	×	×	
	MK-07	Chisongo Village	Public Tap Water		12-59	no data	^	^	
	MK-15	Chobera School	Hand Dug Well		5-19	5.5			_
	MK-32	Mukungle Palace	Hand Dug Well and Borehole		17-45	about 15m			0
	MK-37	Kopa Village	River	0.5	2.5-42	7			Δ
	MK-38	Kopa School	Hand Dug Well		10-100	11.5			0
	MK-40	New Kamawanya	Public Tap Water		7-24	no data	Δ		_
CHINSALI	CH-03	Musanya School	Scoop Hole		8-26	13			_
	CH-06	Nambuluma Village Sele School	Hand Dug Well and Borehole		ND	no data	Δ	×	0
	CH-14 CH-15	Lubuwa Village	Stream Pond		14-47 4-20	5			<u>Ο</u> Δ
	CH-18	Chibesa School	River		5-100	10			Δ
	CH-19	Mwalala School	River		6-25	40	Δ	0	
	CH-20	Chandamali Village	2 Hand Dug Well		-12	2.5	_	_	_
	CH-21	Katimba School	Spring		-38	37			_
	(CH-22)	Mundu	Borehole	12	4-11	1.5			_
	CH-25	Choshi Village	Public Tap Water		14-47	5			-
ISOKA	IS-01	Wenela	River		Possibility of clay layer	29			
	IS-02	Kafwimbi C	2 Borehole		11-23	no data	×	0	0
	IS-03	Kapembe	Spring		7-72	13			0
	IS-05	Mulamba	Stream		-58 (Clay down to 58m?)	5			0
	IS-19	Mwenbe	Borehole		ND	no data			0
	IS-21 IS-23	Mutukumbi Kosamu Village	Hand Dug Well Hand Dug Well		0.5-5(Clay layer 5-24m?) 0-6.5	2.2			
	IS-26	Thendele RHC	Hand Dug Well		1-18	1.9			
	IS-29	Chinyansi Village	Spring Spring		16-37	8			
	IS-37	Namyala	Borehole		-22	4	Δ	Δ	_
NAKONDE	NA-01	Nakakora Village A	Spring		1-20	40			_
	NA-02	Kawele School	Spring		1.2-3.2(Clay down to 52m?)	3			_
	NA-08	Mayenbe Village	Borehole, Hand Dug Well and Scoop Hole	47	6-45	3	0	0	=
	NA-10	Nachipeta Village A	Spring		1-25	no data			0
	NA-25	Lyuchi Village	Hand Dug Well		ND(Clay down to 42m?)	5.6			X
	NA-26	Musanka Village	Borehole		2-38	8			0
	NA-30 NA-32	Izuwa Village Nkashichila Villge	Hand Dug Well Hand Dug Well		10-30 5-21	11.5 5.5	0	0	_ O
	NA-34	Muli Village	Spring		-52	3.5			0
	NA-34	Mwanga School	Spring		5-40	6			Δ
Mbala	MB-03	Mulunda Village	Hand Dug Well		10-32	3.8			
	MB-10	Musenkele Village	Borehole		17-31	5			Δ
	MB-15	Mwenyi School	Scoop Hole	43	14-43	6			_
	MB-19	Kaponda Village	Spring	-100	ND(Clay down to 36m?)	5			_
	MB-20	Mwanbezi Chilino School	River		12-30	30	Δ	Δ	0
	MB-28	Vimbuli Village	Stream		1-14 (Clay layer 14-26m?)	14	0	×	
	MB-32	Mwila Village	Hand Dug Well		2-47	4			0
	MB-46	Kati Village	Spring		8-45	22	<u> </u>		_
	MB-50	Chasha Village Chileshya School	Stream		ND 4-37	3	-		<u> </u>
Mpulungu	MB-53 ML-06	Chileshya School Chitibwa RHC	Spring River		ND	40	×	×	
wihmmign	ML-14	Simocha	Spring		3-49	40		^	
	ML-14	Jecap Jecap	Stream		18-70	3			_
	ML-18	Chaulu	Stream		6-26	4			
	ML-20	Muswilo	Stream		ND	50	×	×	_
	ML-21	Kalongora	Spring	9.5	ND	6			0
	ML-30	Makola	River		ND	>40			0
	ML-38	Mupata	Borehole and River		12-25	6			Δ
	ML-40	Mwanakatwe	River	25	12-25	15			
	ML-42	Musende Village	Public Tap Water, Borehole and Lake		7-27	_			Δ
Luwingu	LU-04	Ishandulula	Hand Dug Well and Spring		ND	3.5			0
	LU-07	Chitwa School	Spring		0.5-15	6			_
	LU-08	Mucheleka School	Spring		15-45	27			_
	LU-10	Chibiliti Community School	Hand Dug Well and Scoop Hole		13-25	3			0
	LU-12	Chifwile School	Spring		ND (Clay down to 28m?) 5-44	20			
	LU-15 LU-20	Kandata School Chibofwe	Spring Spring		ND (Clay down to 59m?)	20		Δ	X 0
	LU-20 LU-28	Lundu School	Hand Dug Well and Spring		5-100	3.8			Δ
	LU-42	Kapoma Village	Hand Dug Well and River		ND	3.8			0
	LU-44	Sande Village	Hand Dug Well and Spring		ND	2.8			
	,	1			1	2.0			

HES Profile: ○ Possibility of fissure wat	HES	Profile:	0	Possibility	of	fissure	wat
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 \triangle Possibility of developed crack or fracture zone

× Low to median apparent resistivity layer not detected

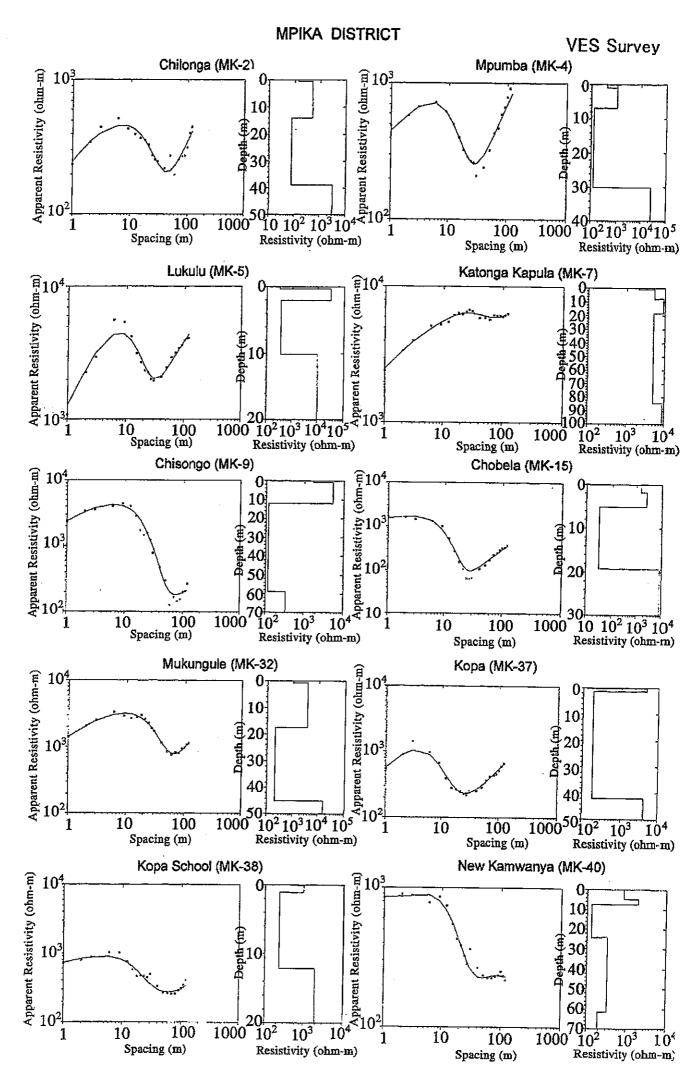
 ${f VLF}$ Profile: igcirc High possibility of fracture zone

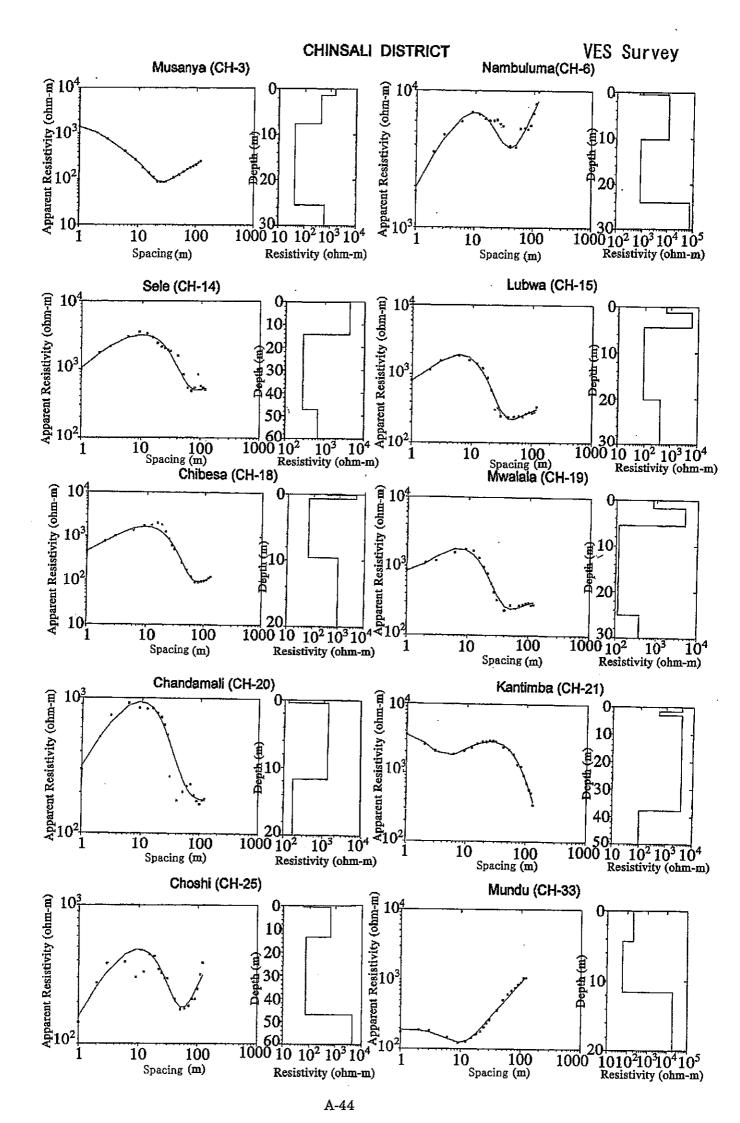
 \triangle Possibility of fracture zone

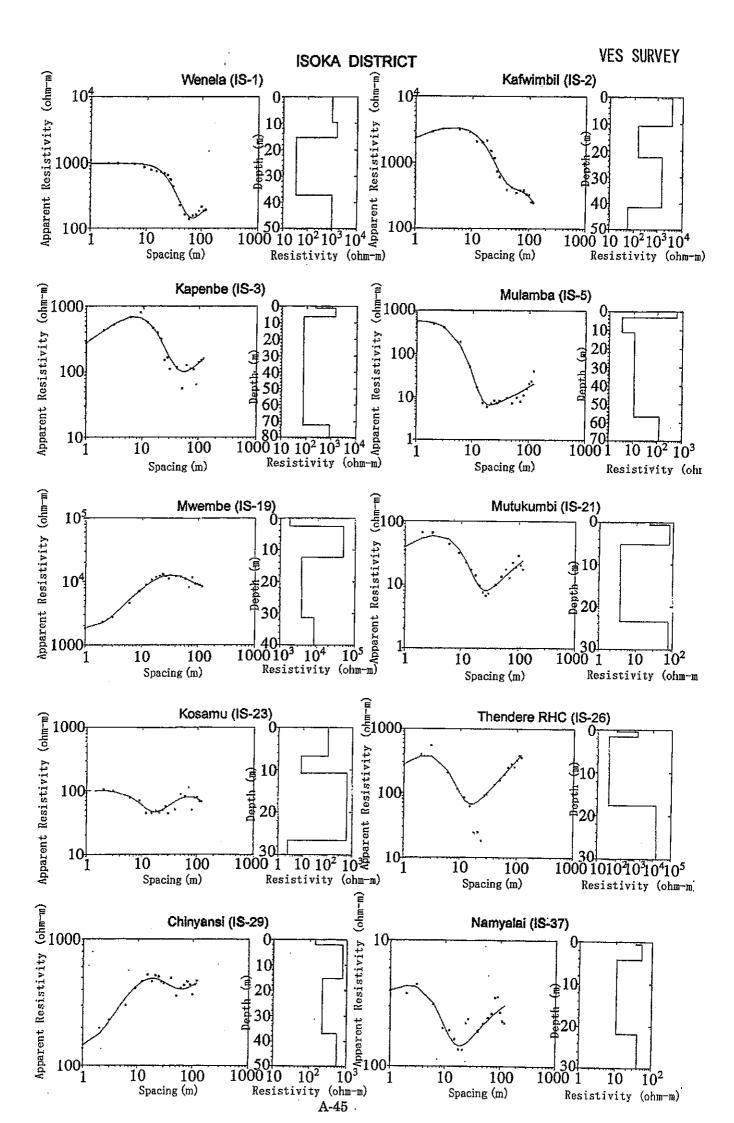
× Change in soil condition not detected

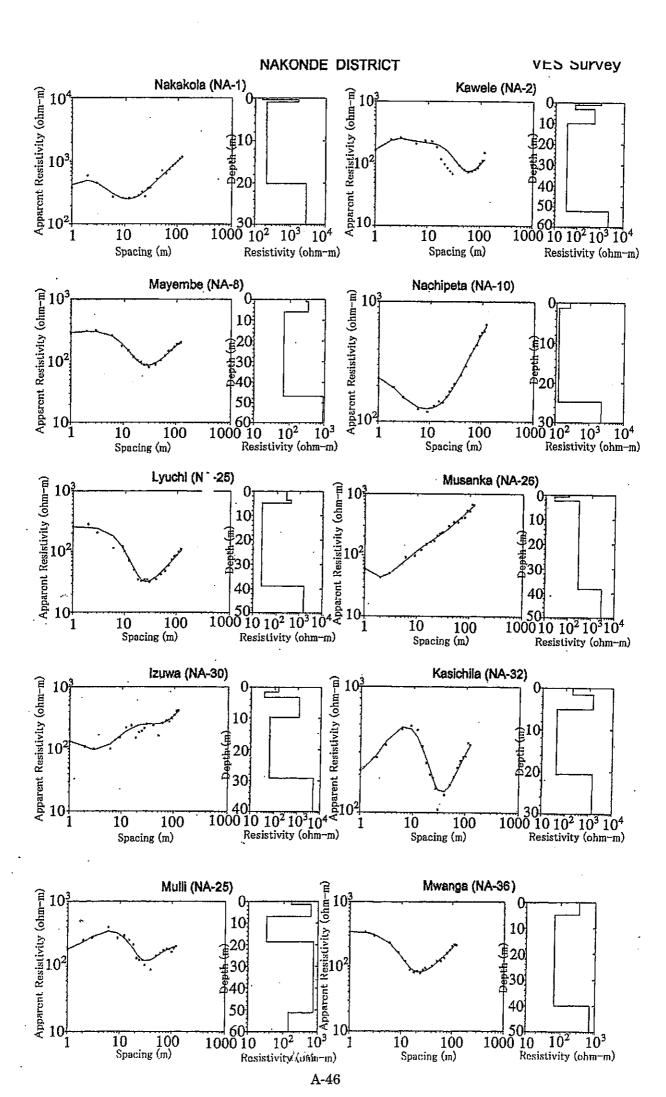
- Noise disturbance caused difficulty in analysis

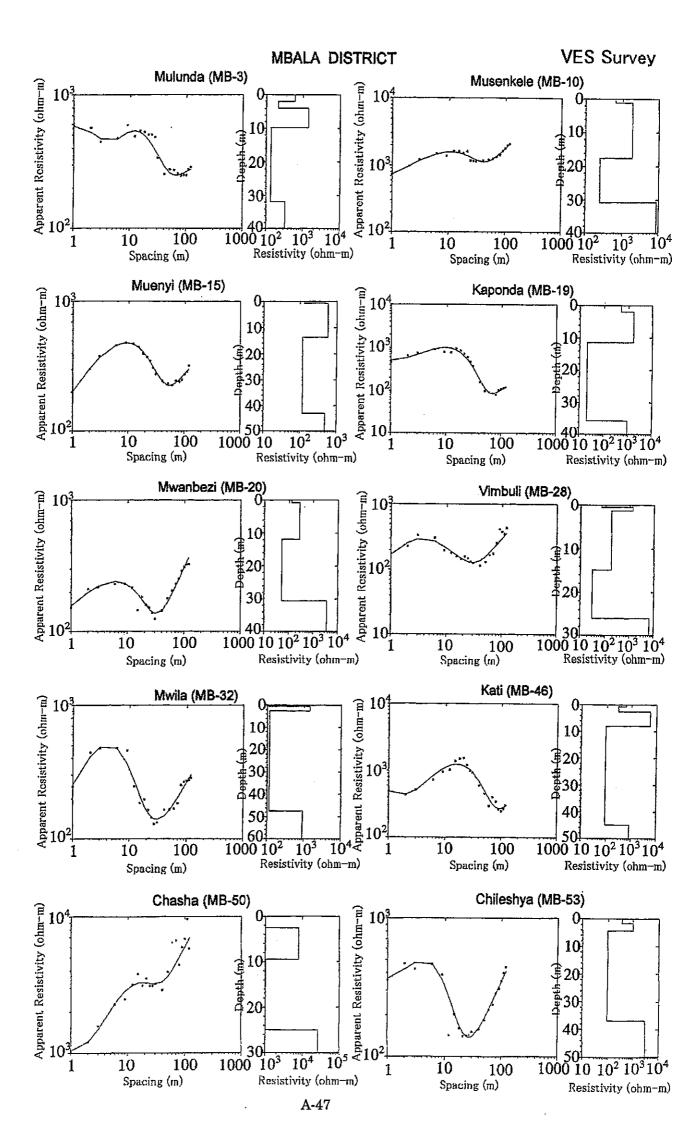
ND: Not detected

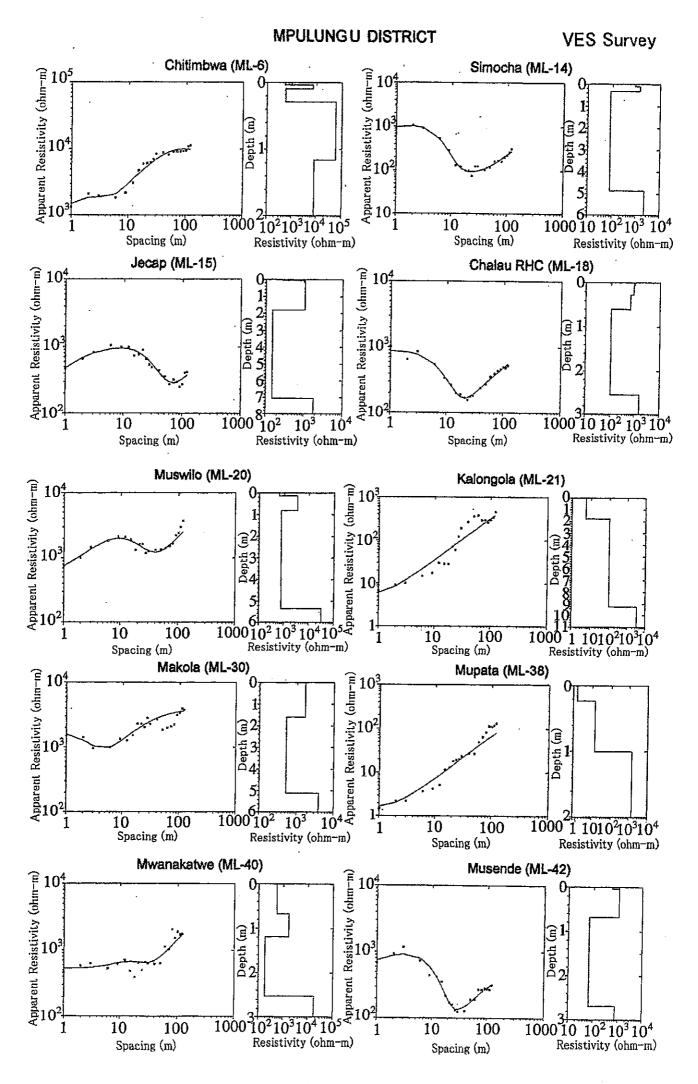


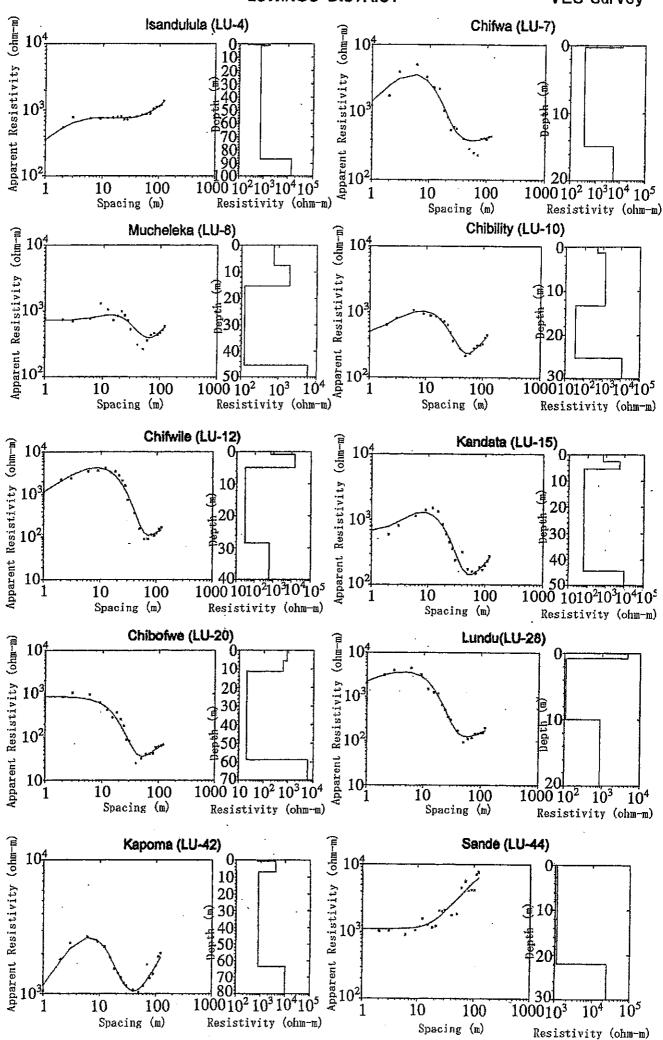


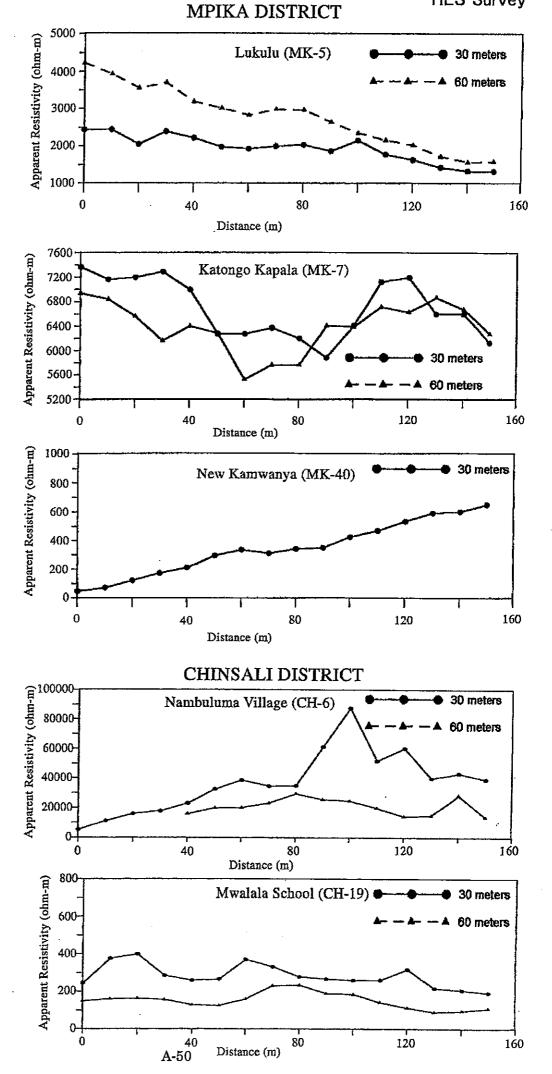


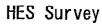




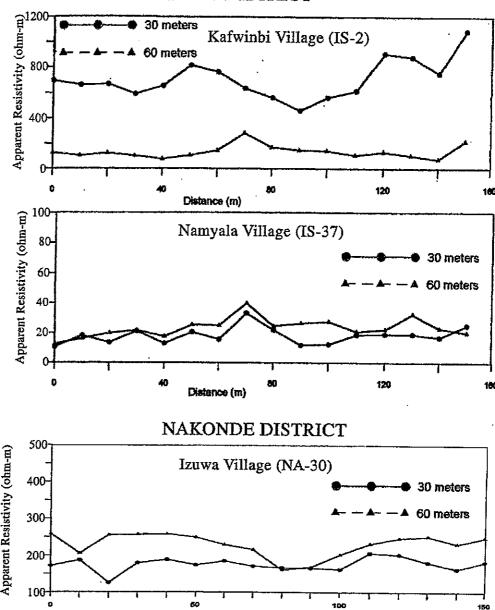


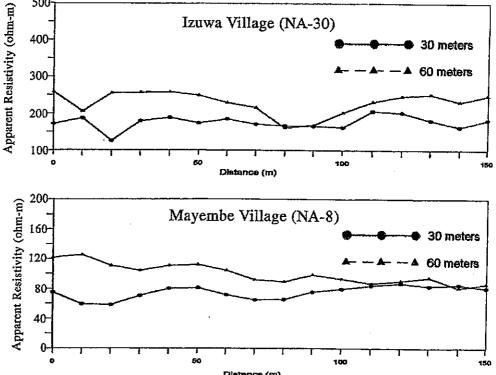


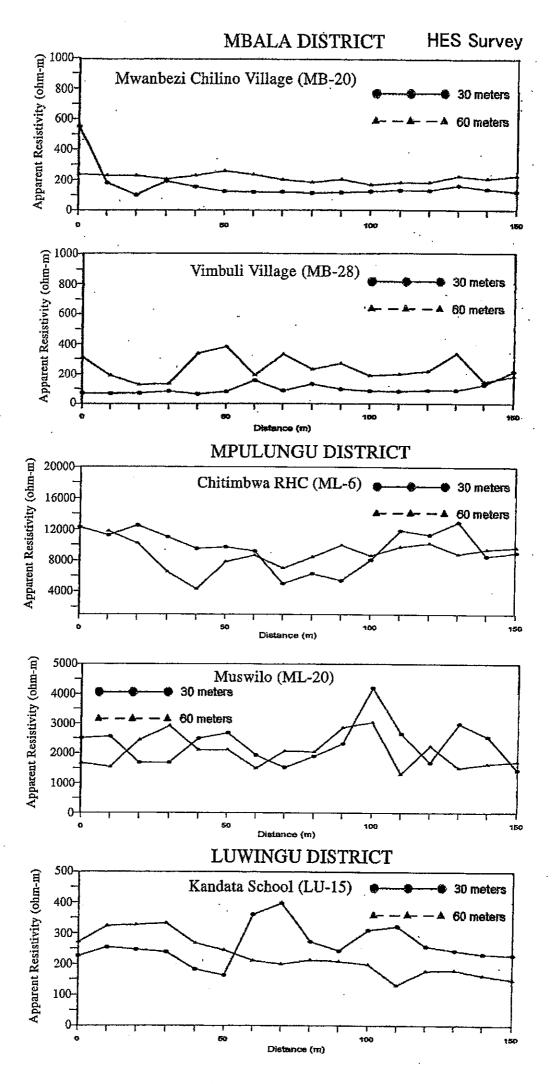




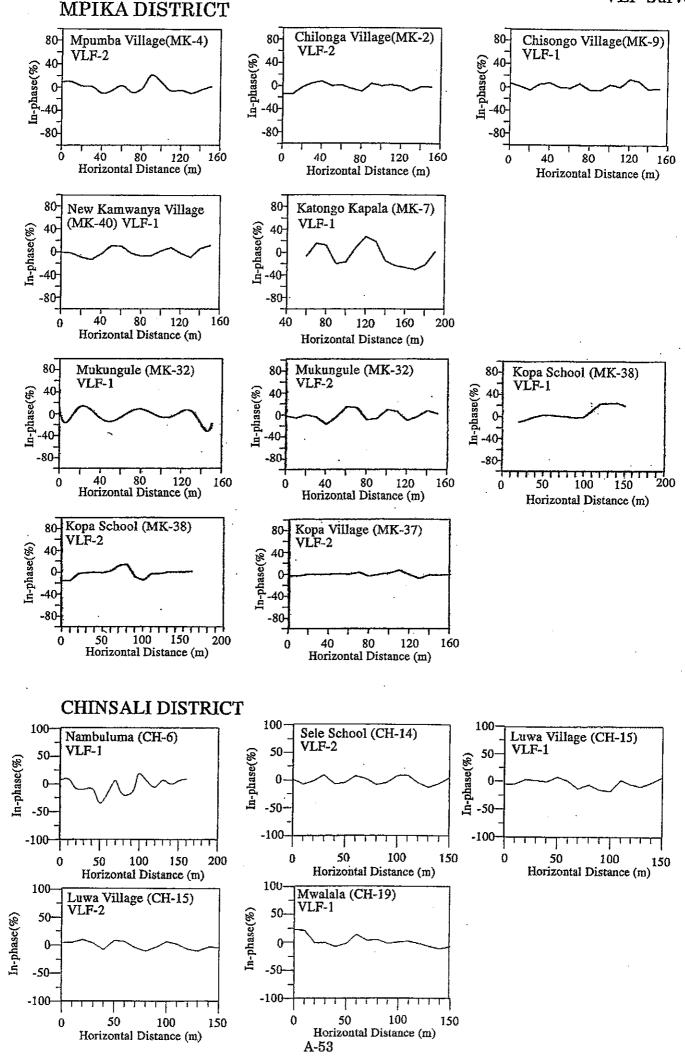
ISOKA DISTRICT







A-52



CHINSALI DISTRICT 100 100-Mundu Village (CH-33) Choshi Village (CH-25) Chsndamali (CH-20) VFL-1 In-phase(%) VFL-1 50 50 VFL-1 50 In-phase(%) In-phase(%) 0 0 0 -50 -50 -50 -100 -100-100 50 100 150 200 50 100 150 100 0 50 150 200 Horizontal Distance (m) Horizontal Distance (m) Horizontal Distance (m) 1.00 Mundu Village (CH-33) VFL-2 50 In-phase(%) 0 -50 -100 50 100 Horizontal Distance (m) 150 ISOKA DISTRICT 100 100 Kafwinbi (IS-2) Kapenbe (IS-3) Mutamba (IS-5) VFL-1 50 VFL-2 VFL-1 In-phase(%) 50 In-phase(%) 50 In-phase(%) 0 0 0 -50 -50 -50 -100 -100 -100-50 100 50 100 Horizontal Distance (m) 100 50 150 200 Horizontal Distance (m) Horizontal Distance (m) 100 100 Mutamba (IS-5) VFL-2 Mwembe (IS-19) Mutukumbi (IS-21) 50 In-phase(%) 50-50-In-phase(%) In-phase(%) 0 0 0 -50 -50 -50 -100 -100 -100 100 50 50 100 Horizontal Distance (m) 50 100 150 Horizontal Distance (m) Horizontal Distance (m) 100 100 100 Kosamu (IS-23) Mutukumbi (IS-21) Kosamu (IS-23) VFL-1 50-VFL-2 In-phase(%) In-phase(%) VFL-2 50 50 In-phase (%) 0 0 0 -50 -50 -50 -100 -100 -100° 50 100 50 100 150 100 0 50 150 Horizontal Distance (m) Horizontal Distance (m) Horizontal Distance (m) NAKONDE DISTRICT 100 100 100 Nachipeta (NA-10) Nachipeta (NA-10) VLF-2 Muli (NA-34) VLF-1 In-phase(%) 50 VLF-2 in-phase(%) 50 In-phase(%) 50 0 0 -50 -50 -50 -100 -100-10050 150 100 50 100

A-54

Horizontal Distance (m)

Horizontal Distance (m)

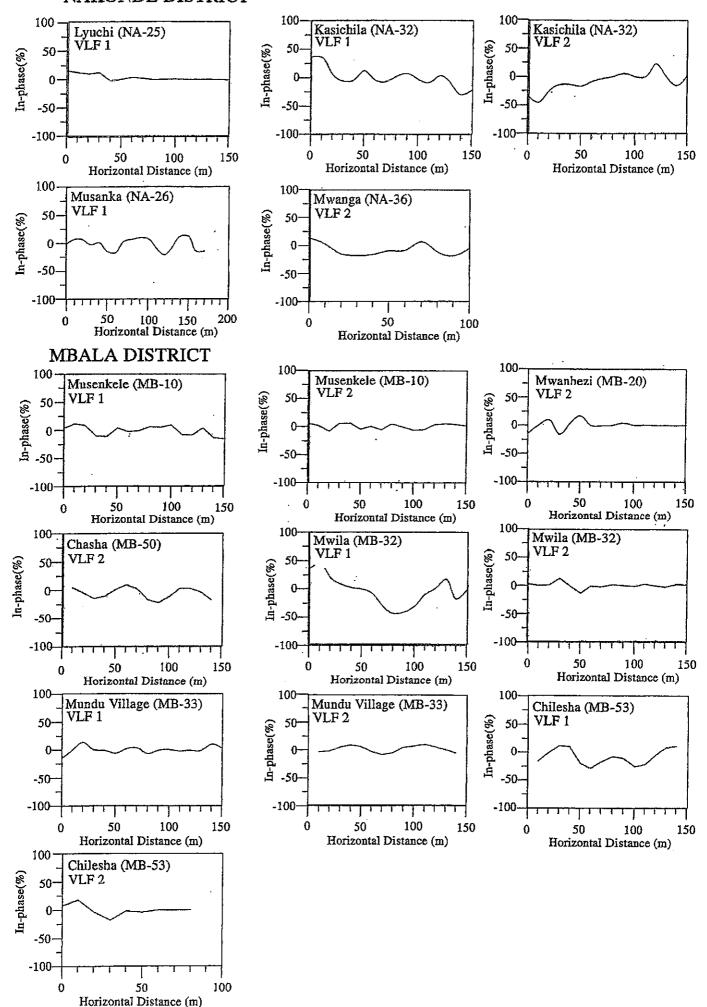
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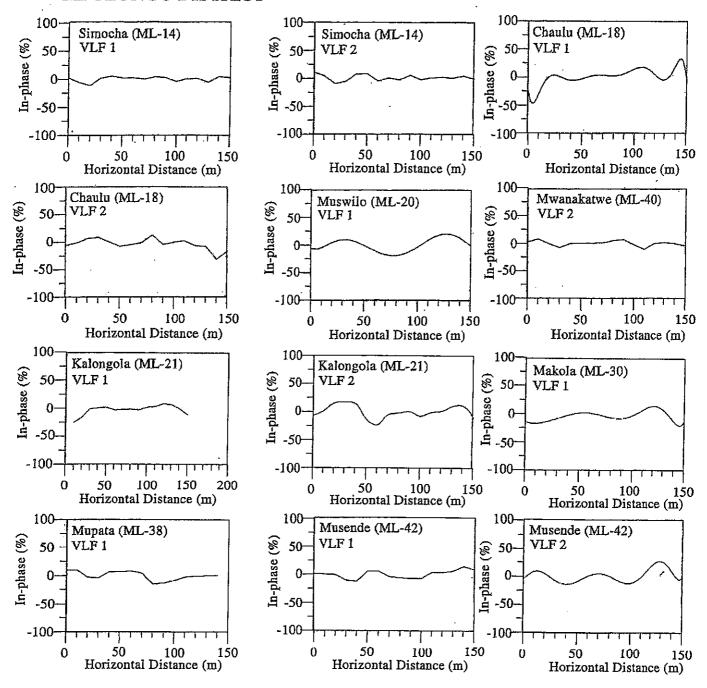
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Harizantal Distance

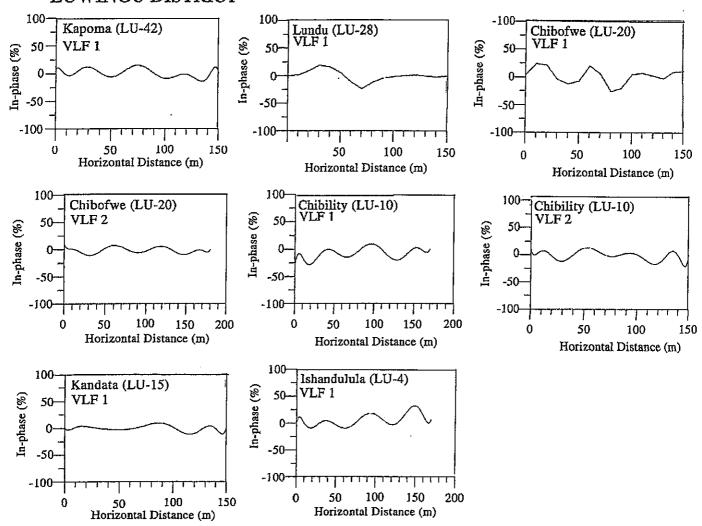
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NAKONDE DISTRICT





LUWINGU DISTRICT



5-1-3 Water Quality Survey

The table in the next page shows the water quality of boreholes in the target area. Also, the water quality analyses results of presently used water sources of survey sites are listed in the following page.

The guideline values for drinking water adopted in Zambia are based on the values recommend by WHO. The guideline values adopted by Zambia, WHO and Japan are listed below.

Water Quality Guideline Values for Drinking Water

Parameter	Unit	Zambia	WHO	Japan
pН		6.5 - 8.0	6.5 - 8.5	5.8 - 8.6
Ammonia	mg/l	1.5		
Nitrite	mg/l	10		10
Nitrate	mg/l	1		10
Fluoride	mg/l	1.5	1.5	0.8
Boron	mg/l	0.3	0.5	1.0
Chloride	mg/l	250	250	200
Copper	mg/l	1.0	2.0	1.0
Manganese	mg/l	0.1	0.5	0.05
Iron	mg/l	1.0	0.3	0.3
Arsenic	mg/l	0.05	0.01	0.01
Calcium	mg/l			
Magnesium	mg/l			
Total Hardness	mg/l		500	300
Coliform Group Count	Counts	0/100 ml	0/100 ml	Not detected

The distribution of iron concentrations of samples taken from boreholes and dug wells during the field survey is shown in the next page.

Of the 44 surveyed boreholes, 23 of them did not satisfy the Zambian water quality guideline value of 1 mg/lit for Iron. The boreholes containing high iron concentrations were found in Mpika and Luwingu districts, where 6 out of 9 samples from Mpika district and 4 out 5 samples from Luwingu district revealed iron concentrations higher than the guideline value. Chinsali district had the least boreholes with high iron contents, that is, 1 out 7 samples showed a high iron value.

Water Quality of Surveyed Boreholes

				- -	'⊦	. [Ļ	5	5		5	? ⊦	F	-		-	-	F	-	ŀ	H	H	L
District	Code	Site Name	Source	Taste		ပိ မ		Ω.	Ξ̈́ O	Hardness	Ca		+	Acidity	Pe	Mn	უ ე	В	NH,	_	3. NO2.	COD	Coliform
:	No.			-	Ξ,	_	u/Su			_				l/gm	mg/l	_		٤	Ĕ	٤	٤	ũ	
Mpika		Polito	Borehole					24.3	0	75	25	2	22	175	6.1	0.2	0.0	0.0		1.6	0.0	0.0	-
		Danger Hill School	Borehole	Rusty R	Rusty (23.0							4.6	0.5			0.4				
		Malamba School	Borehole		None (5.9		23.0							0.8	0.1			0.0				
		Mweng	Borehole					27.0	0	20	20	2	120	100	>6.0	0.0	0.0			0.2 (0.0	0.0	+
		Chibaye	Borehole		Rusty (6.2		25.6	0	20	-	-	25	92	>6.0	0.4	0.0	0.0	0.0				- (
		Chibaye Village North	Borehole					23.2							6.0	0.5							
		Chibaye Basic School	Borehole					25.8	0	45	12	0	20	09	5.3	0.3	0.0	0.0	0.0	0.2	1.0 0	0.0	
			Borehole					23.5	0	22	20	0	30	22	>6.0	0.3	0.5					0.	
	(MK-10)		Borehole					23.4							0.0	0.0							
Chinsali		Chinsali Hospital	Borehole	Good	None (6.0		26.4	0	25	10	0	10	10	0.2	0.0	0.0	0.0				.0 50	-
		Ofu	Borehole	Good N	None (0.9		21.5	0	40	22	0	20	20	0.0	0.0	-					- 0.0	,
		Kapwepwe Basic School	Borehole	Good	None (6.2		22.0	0	09	25	0	40	170	0.0	0.0						- 0.0	
	CH-23	Matumbo	Borehole			0.9		24.9							4.2	0.1			0.4				
		Kapwepbe School	Borehole					24.7							1.0	0.1			0.0				
	9-H2	Nambuluma Village	Borehole					23.4	0	40	15	0	15	100	0.2	0.0	1					'	
	CH-22	Mundu	Borehole	Good N	None	7.4		25.0	0	360	150	0	160	40	0.5	0.0	0.5					.0 20	-
Isoka	IS-34	Kawenga	Borehole	Good		5.8		25.4	0	20	2	0	15	09	1.0	0.0	0.0						
		Kampumbu RHC	Borehole					27.3	0	22	20	0	20	140	0.0	0.0						- 2.	,
		Malango	Borehole	Rusty R	Rusty (5.8		23.9	0	22	•	0	40	30	4.5	0.2	0.0						-
		Mutonda Middle School	Borehole	Good	None (24.6	0	40	15	0	15	180	0.0	0.0	0.0						
	IS-2	Kafwimbi School	Borehole					25.9	0	105	40	0	30	35	>6.0	0.1	0.0						
		Kafwimbi Village	Borehole					25.3	0	45	15	0	22	15	4.5	0.0	0.0						
	IS-19	Mwenbe	Borehole					27.0	0	15	2	0	20	15	>6.0	0.0	0.0						-
	IS-37	Namyala	Borehole			5.9		27.2	0	290	100	15	190	20	0.0	0.0	0.0						
Nakonde		Ntindi Basic School	Borehole	Rusty R	Rusty (6.4		25.2	0	20	20	0	45	75	2.0	0.0	0.0						
		Ilola	Borehole					23.9	0	80	30	0	65	06	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	+
		Nteko Basic School	Borehole					25.4	0	90	35	0	105	120	2.0	0.1	0.0						
		Chitamba Primary School	Borehole					23.0	0	32	15	0	45	130	0.2	0.0	0.0						- (
		Milizye	Borehole1					22.5							2.0	0.3			0.0				
		ividiizye	Borehole2					23.4							0.5	0.0			0.0				
	NA-8	Mayembe Village	Borehole					28.3	0	20	2	0	25	9	0.2	0.0	0.0					0.0	+
	NA-26	Musanka Village	Borehole					56.8	0	40	15	0	65	75	0.0	0.0	0.0	0.0		0.4 10	10.0	0.2	+ 9
Mbala		Ntungo	Borehole					25.1	0	40	12	0	9	32	0.4	0.0	0.0					Ψ.	'
		Ndundundu	Borehole					20.9	0	40	15	0	30	45	1.	0.2	0.0					0.	
		Mbala Central	Borehole					23.9	0	92	32	0	06	30	0.3	0.0	0.0	0.0	0.0	0.0		0.	+
	MB-40	Museshele Village	Borehole	Rusty R	Kusty (0.7	202	20.0	c	77	7	C	מ	105	3.5	7.0	0	0		0.0			
Mording		Mwambe	Borehole					75.3)	?	2	Þ	3	247	0.7	0.0	5		0.0			2	
5	ML-38	Mupata	Borehole					28.3	0	205	20	10	230	80	0.5	0.0	0.0	0.0					+
	ML-42	Musende Village	Borehole					24.4	0	305	100	2	250	140	2.5	0.4	0.0						
Luwingu		Luwingu High School	Borehole					22.1	0	20	2	0	15	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
,		Nsombo School	Borehole	Rusty R	Rusty (0.9		24.8	0	45	15	0	25	75	>6.0	0.0	0.0						
		Makalongo School	Borehole			0.9		22.0							4.5	0.2			0.0				
		Menda School	Borehole1					23.2							4.0	0.2			0.0				
		50.00	Borehole2					22.0							4.0	0.5			0.4				
Kasama		Provinical DWA	Borehole	Rusty R	Rusty (8.9	12 2	25.0							4.5								
rilo. O rotolvi	Otopolo,	Motor Onality Standords for Printing Motor	7 cmbio		ď	0	-	F	050	003				-		2	,			4			
water Qualit	y otalida		Zarribia		o e	0.0-0.0			720	000				<u>l</u>	0.0	- u		0.0		Ü			
			OFW		o k	5.0-0.0	T		200	300					0.0	0.05	7.0		C: 0	1			
			Japan		<u>5</u>	5		-	200	3					;	2	?		5.	_			

Water Quality of Surveyed Water Sources

			V V 4	alei	Qи	all	ity (טו כ	our	veye	; u	VV	itei	30	urc	,es								
District	Code	Site Name	Source	Taste	Odour	рН	Cond.	Temp	CI	Hardness	Ca	Mg	M-Alk	Acidity	Fe	Mn	Cu	В	F	NH ₄ ⁺	NO ₃	NO ₂	COD	Coliform
	No.				Colour	- 6.0	mS/m	°C	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	Count -
	<u> </u>	Polito Danger Hill School	Borehole Borehole	Rusty	Rusty Rusty	6.0	94 175		0	75	25	5	55	175	6.1 4.6	0.2	0.0	0.0	0.0	1.6	0.0	0.0	50	-
		Malamba School	Borehole	Good	Noné	5.9	67	23.0							0.8	0.1			0.0					
	<u> </u>	Mweng Chibaye	Borehole Borehole	Rusty Rusty	Rusty Rusty	6.0	242 129		0	70 50	20	5	120 25	100 95		0.0	0.0	0.0	1.5 0.0	0.2	0.0	0.0	10 10	+
		Chibaye Village North	Borehole	Rusty	Rusty	6.0	88	23.2							6.0	0.5			0.0					
		Chibaye Basic School Mukungle RHC	Borehole Borehole	Rusty	Rusty Rusty	6.6	46 91		0		15 20	0	20 30	60 55		0.3	0.0	0.0	0.0	0.2	1.0 0.0	0.0	5 5	-
	(MK-10)	Mukungle School	Borehole	Good	None	6.5	173		U	33	20	0	30	33	0.0	0.0	0.5	0.0	0.4	0.0	0.0	0.0	3	
Mpika	MK-32 MK-4	Mukungle Palace Mpumba Village	Dug Well Dug Well	Good Good	None None	6.5	178 87	24.2	0	113 30	40 25	5	135 60	30 90		0.0	0.0	0.0	0.0	0.0	0.3	0.0	0	+
	MK-15	Chobera School	Dug Well	Good	None	6.2	46		0	25	15	0		65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	+
	MK-38	Kopa School	Dug Well	01	N	6.0	38		0		15	5		95		0.5	0.0	0.5	0.0	0.2	0.0	0.0	10	+
	MK-2 MK-9	Chilonga Chisongo Village	Public Tap Public Tap	Good Good	None None		19 17		0	10 5	5 5		15 10	35	_	0.0	0.0	0.0	0.0	0.2	0.0	0.0	10	+
	MK-40	New Kamawanya	Public Tap	Good	None		27	26.5	0	20	10	1	25	15	0.5	0.0	0.0	0.0	0.0	0.0	5.0	0.0	10	+
	MK-37 MK-5	Kopa Village Lukulu Village	River Stream	Good Good	None None		32 21		0	50 15	10 5	1	35 15	10 10		0.0	0.0	0.0	0.2	0.2	0.0	0.0	13 5	+
	MK-7	Katongo Kapula	Stream	Good	None		5	22.7	0	5	0	0	10	5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	+
	-	Chinsali Hospital Ofu	Borehole Borehole	Good Good	None None	6.0	39 37		0	25 40	10 25	0	10 50	10 70		0.0	0.0	0.0	0.0	0.2	1.0 0.0	0.0	50	-
		Kapwepwe Basic School	Borehole	Good	None	6.2	88		0	60	25	0	40	170		0.0	-	-	0.0	0.5	0.0	0.0	-	-
	CH-23	Matumbo Kapwepbe School	Borehole Borehole	Rusty Good	Rusty None	6.0	112 73								4.2 1.0	0.1			0.4					
	CH 6		Borehole	Good	None	5.8	67		0	40	15	0	15	100		0.0	-	-	0.0	0.0	0.0	0.0	-	-
	CH-6 CH-22	Nambuluma Village	Dug Well	Good	None	6.0	29 202		0	10 360	10	1	20 160	85		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5 20	+
01.1	CH-22	Mundu Mundu Clinic	Borehole Dug Well	Good	None	7.4 5.9	58		-	360	150	U	160	40	0.5	0.0	0.5	0.0	0.0	0.4	0.0	0.0	20	-
Chinsali	CH-20	Chandamali Village	Dug Well	Good	None	6.2	41		0	5	5	0	5	65		0.0	0.0	0.0	0.0	0.0	5.0	0.0	10	+
	CH-25	Choshi Village	Dug Well Public Tap	Good Good	None None	6.0	36 65		0	15		_	10 15	65 15		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5 10	+
	CH-18	Chibesa School	River	Good	None		11	26.6	0	10	5		15	5	0.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	10	+
	CH-19 CH-21	Mwalala School Katimba School	River Spring	Good Good	None None	_	20 19		0	10 10	10		40 10	10 125	1.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	13 50	+
1	CH-14	Sele School	Stream	Good	None		17	26.6	0	5	0	0	10	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	-
1	CH-15 CH-3	Lubuwa Village Musanya School	Pond Waterhole	Good	None		18 28		0		5 5	1	10 15	70 65		0.0	0.0	0.0	0.0	0.4	0.0	0.0	13	+
	IS-34	Kawenga	Borehole	Good	None	5.8	41	25.4	0	20	5	0	15	60	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	20	-
		Kampumbu RHC Malango	Borehole Borehole	Good Rusty	None Rusty	6.0 5.8	101 74	27.3	0	55 75	20	0	50 40	140 30	0.0	0.0	- 0.0	- 0.0	0.0	1.0	2.0 0.0	0.5	- 10	-
		Mutonda Middle School	Borehole	Good	None	6.5	31	24.6	0	40	15	0	15	180	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	50	+
	IS-2	Kafwimbi School Kafwimbi Village	Borehole Borehole	Rusty Rusty	Rusty Rusty	5.8 5.9	37 58		0		40 15	0		35 15		0.1	0.0	0.0	0.8	0.0	0.0	0.0	10 5	-
	IS-19	Mwenbe	Borehole	Rusty	Rusty	6.0	55	27.0	0	15	5	0	20	15	>6.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	50	-
Isoka	IS-37 IS-21	Namyala Mutukumbi	Borehole Dug Well	Good Good	None None	5.9 6.0	86 79		0	290 20	100	15 0	190 40	70 76		0.0	0.0	0.0	0.0	0.0	2.0 0.0	0.0	5	+
	IS-23	Kosamu Village	Dug Well	Good	None	5.8	76	27.1	0		20	1	45	105		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	+
	IS-26 IS-1	Thendele RHC Wenela	Dug Well River	Good Good	None None	6.2	116 89		0	60 40	55 25	2	65 55	10 5		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5 10	+
	IS-29	Chinyansi Village	Spring	Good	None		38		0		10		25	35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	+
	IS-3 IS-5	Kapembe Mulamba	Spring Stream	Good Good	None None		33 50		0	20 30	10 15	1 2	25 45	45 5		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	+
	10 0	Ntindi Basic School	Borehole	Rusty	Rusty	6.4	100	25.2	0	50	20	0		75	2.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0	÷
		Ilola Nteko Basic School	Borehole Borehole	Good Rusty	None Rusty	6.0	126 151		0	80 90	30 35	0		90 120		0.1	0.0	0.0	0.0	0.0	0.0 2.0	0.0	5 5	+
		Chitamba Primary School	Borehole	Good	None	6.6	72	23.0	0		15	0		130		0.0	0.0		0.0	0.5	0.0	0.0	10	-
		Mulizye	Borehole1 Borehole2	Rusty	Rusty None	6.6	20 20								5.0 0.5	0.3			0.0					
			Borehole	Good	None	6.0	62	28.3	0	20	5	_	25	60	0.2	0.0	0.0	0.0	0.0	0.0	2.0	0.0	5	+
	NA-8	Mayembe Village	Dug Well Waterhole	Good	None	6.0	47 63		0		0	0	25 25	125 35	0.2	0.0	0.0	0.0	0.0	0.0	5.0 0.0	0.0	10	+
Nakonde	NA-26	Musanka Village	Borehole	Good	None	6.4	32	26.8	0	40	15		65	75	0.0	0.0	0.0	0.0	0.0	0.4	10.0	0.2	5	+
	NA-25 NA-30	Lyuchi Village Izuwa Village	Dug Well Dug Well	Good Good	None None	6.0	80 102		0	50 35	20 35	0	55 55	95 75		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	+
	NA-32	Nkashichila Villge	Dug Well	Good	None	6.0	60	30.2	0	20	5	0	15	85	0.0	0.0	0.0	0.0		0.2	25.0	0.0	5	-
	NA-1 NA-2	Nakakora Village A Kawele School	Spring Spring				125 43		0	65 20	35 5		70 25	60 55		0.0	0.0	0.0	0.0	0.0	0.0	0.0	10 13	+
	NA-10	Nachipeta Village A	Spring	Good	None		68	21.7	0	40	10	1	10	65	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	+
	NA-34 NA-36	Muli Village Mwanga School	Spring Spring	Good Good	None None		43 56		0		5 0		30 25	105 95		0.0	0.0	0.0		0.2	1.0	0.0	5 5	+
		Ntungo	Borehole	Good	None	5.8	42	25.1	0	40	15	0	10	35	0.4	0.0	0.0	0.0	0.0	0.0	5.0	0.1	5	-
		Ndundundu Mbala Central	Borehole Borehole	Rusty Good	None None	5.8 6.0	71 161	20.9	0		15 35	0	30 90	45 30		0.2	0.0		0.0	0.0	0.0	0.0	5 5	+
		Maiteneke Village	Borehole	Rusty	Rusty	6.7	202	20.0							3.5	0.2			0.8					
	MB-10 MB-3	Musenkele Village Mulunda Village	Borehole Dug Well	Rusty Good	Rusty None	6.7	79 46		0		15 10	0		125 55		0.0	0.0	0.0		0.2	0.0 2.0	0.0	0	+
	MB-32	Mwila Village	Dug Well	Good	None	6.7	53	25.5	0	25	20	0	40	25	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0	-
Mbala	MB-20 MB-19	Mwanbezi Chilino School Kaponda Village	River Spring	Good Good	None None		15 17		0		0 5	_		10 105		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5 0	+
	MB-46	Kati Village	Spring	Good	None		48	24.5	0	25	15	0	35	140	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	50	+
	MB-53 MB-28	Chileshya School Vimbuli Village	Spring Stream	Good Good	None None		37 29		0		5 5			75 20		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5 5	+
	MB-50	Chasha Village	Stream	Good	None		6	21.5	0		0		10	5	0.2	0.0		0.0	0.0	0.0	0.0	0.0	5	-
	MB-15	Lake Chila Mwenyi School	Lake Waterhole	Good	None	6.5	20 23		0	10	5	1	20	95	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	+
		Mwambe	Borehole	Good	None	5.8	49	25.3							0.1	0.0			0.0					
	ML-38	Mupata	Borehole River	Good Good	None None	6.8	43 17		0		70 0	10	230 15	80 5		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	+
	MI 40	Muses de 189	Borehole	Rusty	Rusty	6.7	42		0	305	100	5	250	140	2.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	10	-
	ML-42	Musende Village	Lake Public Tap	Good Good	None None		- 64	28.6	100	265 225	35 25	10 10		0		0.0	0.0	0.0		0.0	0.0	0.0	10 5	+
Mpulungu	ML-6	Chitibwa RHC	River	Good	None		17	23.5	0	20	0	1	15	10	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	+
. 3-	ML-30 ML-40	Makola Mwanakatwe	River River	Good Good	None None	<u> </u>	13		0		5 15		20 45	10		0.0		0.0		0.0	0.0	0.0	5 50	+
	ML-14	Simocha	Spring	Good	None		66	29.8	0	35	5	1	40	115	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	+
	ML-21 ML-15	Kalongora Jecap	Spring Stream	Good Good	None None		27 17		0		10 5	_	15 30	155 15		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5 5	+
	ML-18	Chaulu	Stream	Good	None		24	23.7	0	25	0	0	40	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	+
	ML-20	Muswilo Luwingu High School	Stream Borehole	Good Good	None None	6.0	45 22		0		5 5	0	15 15	10 5		0.0	0.0	0.0	0.0	0.2	0.0	0.0	5 10	+
		Nsombo School	Borehole	Rusty	Rusty	6.0	28	24.8	0		15			75	>6.0	0.0	0.0		0.8	0.2	0.0	0.0	10	-
		Makalongo School	Borehole Borehole1	Rusty Rusty	Rusty Rusty	6.0	65 67		-						4.5	0.2			0.0		-		-	
		Menga School	Borehole2	Rusty	Rusty	6.4	119	22.0							4.0	0.5			0.4					
	LU-4	Ishandulula	Dug Well Spring	Good Good	None None	6.0	77 60		0		10 5	1	5 5	65 65		0.0			0.0	0.0	20.0	0.0	10 5	-
	LU-10	Chibiliti Community School	Dug Well	Good	None	6.0	22	26.6	0	15	5	0	5	135	0.2	0.0	0.0	0.0	0.0	0.4	2.0	0.0	5	-
1		-	Waterhole Dug Well	Good Good	None None	6.2	20 28		0		5 5	-		135 120		0.0	0.0	0.0	0.0	0.2	0.0	0.0	5 5	+
Luwingu	LU-28	Lundu School	Spring	Good	None		17	24.2	0	25	5	0	10	110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	-
	LU-42	Kapoma Village	Dug Well River	Good Good	None None	6.4	68 15		0		35 10	0		60 10		0.0	0.0	0.0	0.0	0.0	0.0	0.0	50 10	+
	LU-44	Sande Village	Dug Well	Good	None	6.0	15	22.2	0	25	5	0	10	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	+
	LU-7	Chitwa School	Spring Spring	Good Good	None None		11 16		0		5 5	-		75 100		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5 13	-
	LU-8	Mucheleka School	Spring	Good	None		21	24.2	0	25	5	0	15	110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	+
	LU-12 LU-15	Chifwile School Kandata School	Spring Spring	Good Good	None None		19 22		0		5 10			145 165		0.0		0.0	0.0	0.0		0.0	5 5	+
	LU-20	Chibofwe			None		12				5			65		0.0				0.0		0.0	5	-

Iron Content Distribution in Target Area

		No. of		n Concentr			ó)	Range (mg/lit)
District	Source	Samples	0.5mg/l	>0.5mg/l, 1mg/l	>1mg/l, 2mg/l	>2mg/l, 5mg/l	>5mg/l	Min.	Max.
Muileo	Borehole	9	1	1	0	1	6	0.0	6.1
Mpika	Dug Well	4	4					0.2	0.5
Chinsali	Borehole	7	5	1	0	1	0	0.0	3.9
Cillisali	Dug Well	4	4					0.0	0.1
Isoka	Borehole	7	3	1	0	2	1	0.0	5.3
ISOKa	Dug Well	3	3					0.0	0.0
Nakonde	Borehole	8	4	0	1	2	1	0.0	5.0
Nakonde	Dug Well	4	4					0.0	0.2
Mbala	Borehole	5	2	0	2	1	0	0.3	3.5
Mibaia	Dug Well	2	2					0.0	0.0
Mpulungu	Borehole	3	2	0	1	0	0	0.1	1.3
Mipululigu	Dug Well	0							
Luvingu	Borehole	5	1	0	0	3	1	0.0	6.0
Luwingu	Dug Well	4	4					0.0	0.2
Total	Borehole	44	18	3	4	10	9	0.0	6.1
IVIAI	Dug Well	21	21	0	0	0	0	0.0	0.5

N.B.: Borehole depths are 30 to 60 m, Dug well depths are 0 to 30 m

In terms of groundwater categorization, 33 boreholes are drawing fissure water found in granite formations, of which 21 boreholes have iron contents above the guideline value. Some samples showed values higher than 6 mg/lit. In general, samples from the southern part of the province, where annual precipitation rates are lower, tend to show higher rates of boreholes surpassing the iron guideline value than other areas in the province. However, areal characteristics in relation to topology or geology could not be classified.

At 2 locations in Mpulungu district, boreholes were drilled into slate or basalt dikes. At one of these sites, the iron content was detected as 1 mg/lit. The reason for this can be assumed as being influenced from iron bacteria intruding into cracks, since this site in located along the Tanganika Lake.

Of the surveyed boreholes, 11 of them are pumping water from aquifers found in weathered formations. Of these, 2 sites showed iron concentrations above 1 mg/lit. However, since the boreholes at these sites are drilled down to the rock formations, they may be drawing fissure water containing high contents of iron. For 44 samples taken from dug wells and springs, only one sample detected iron of over 1 mg/lit, and therefore, we can deduct that the iron concentrations of shallow aquifers in the weathered and sedimentary formations are in general below the guideline value.

For groundwater found in granite in the rift valley and its surroundings, fluoride concentrations can become high due to fluorite found in pegmatite dikes. However, analyses of samples taken in the field survey did not reveal fluoride values of groundwater surpassing the guideline value.

Ap 5-2 Results of Socio-Economic Survey

5-2-1 Objectives of the Survey

The objectives of the socio-economic survey are listed below. A local social development consultant named PMTC (Zambia) Limited conducted the survey under the basic design study team member in charge of "facilities operation and maintenance plan and hygiene education".

- To acquire information on the present state of social and economic conditions of the target sites.
- To collect required information to formulate a support programme on sanitation improvement and strengthening of the operation and maintenance structure.
- To compile baseline data on parameters to measure the project outputs and effects.

5-2-2 Survey Description and Methodologies

The socio-economic survey was conducted using the following three methods.

Item	Village Inventory Survey	Sample Household Survey	Participatory Appraisal
Survey Sites	Requested 300 sites	60 sites sampled from the 300 requested sites. (Consideration was made on sample sites to avoid biased selection in catchment areas of each target district)	2 sites in each district, for a total of 14 sites
Survey Method	Structured interviews using questionnaires	Structured interviews using questionnaires	PRA
Survey Target	Key informants and other villagers such as village chiefs or school masters, who are fully aware of the situation at the site.	5 household per site (Sample households were selected with consideration of household scattering in the village and gender balance)	Residents of survey sites (Divided into groups of adolescent male, adolescent female, and youths)
Brief Description of Survey	Socio-economic situation of village, existing water supply and sanitation facilities, present operation and maintenance state of these facilities, cooperative activities, willingness to participate in improvement activities for water supply and sanitation.		Natural and social resources of the village, type, use situation and problems of existing water and sanitation facilities, present health and hygiene practices, living and occupation patterns of males and females, accessibility to resources

At Chinsali, Isoka, Nakonde and Mpulungu districts, some sites could not be accessed because roads leading into the sites were washed away or flooded, or the bridge had collapsed by the rains. Therefore, site survey for these sites had to be cancelled.

The questionnaires used for the village inventory and sample household surveys are attached as Appendix Ap 5-3.

(1) Cancellation of the Village Inventory Survey at a part of the Suvery Sites There are 9 sites in total in Chinsali, Isoka, Nakonde and Mpulungu where the village inventory survey were cancelled due to inaccessibility to the sites because of collaption of bridge or unidentifiable sites. Names of these sites are indicated in the village inventory data attached hereunder.

(2) Target Sites of the Sample Houshold Survey and PRA

District		Sample Houshold Survey	PRA
Mpika	MK1	Kapoko	MK1 Kapoko
Wipina .	MK3	Mpumba School	MK10 Mukungule Village
	MK6	Ngwai	The state of the s
	MK7	Katongo Kapala	
	MK10		
	MK13	0 0	
	MK18		
		Kopa Village	
	MK31		
	MK37		
	(Total 1	0 sites)	
Chinsali	CH1	Mbanga Village	CH1 Mbanga Village
	CH2	Mpyanabwalya Village	CH7 Mulanga Village
	CH7	Mulanga Village	
	CH13	Chikalanga School	
	CH15	Lubwa Village	
	CH16	Mungulube School	
	CH17	Poya School	
	CH30	Kalisha School	
	(Total 8		
Isoka	IS2	Kafwimbi C	IS21 Mutukumbi
	IS9	Mweni Mpangala Village	IS28 Muyombe Village A
	IS21	Mutukumbi	
	IS28	Muyombe Village A	
	IS32	Kantensha (Yazaza)	
	IS33	Sichinga (Choma) Village	
	IS41	Nachisitu Village	
	IS43	Mulkatembo	
	(Total 8		
Nakonde	NA3	Kandalala Village	NA23 Mutachi Village
	NA6	Nega (A)	NA29 Mwanga Vilalge
	NA10	Nachipeta Village	
	NA12	Uzinji School	
	NA23	Mutachi Village	
	NA25	Lyuchi Village	
	NA29	Mwanga Village	
	NA31	Chisambwe Village	
	(Total 8		15710 6 1 1571
Mbala	MB5	Chupa Village	MB16 Songolo Village
	MB7	Musipazi School	MB28 Vimbuli Village
	MB11	Lukwesa Village	

	MB16 Songolo Village MB28 Vimbuli Village MB31 John Chivuta School MB34 Elon Village MB43 Isanya Village MB49 Chileshya School MB51 Mindolo Village	
	(Total 10 sites)	
Mpulungu	ML1 Kamba ML9 Kasusu ML10 Ntema ML16 Kasasi ML20 Muswilo ML24 Patrick ML37 Kasasa ML40 Mwanakatwe (Total 8 sites)	ML20 Muswilo ML37 Kasasa
Luwingu	LU3 Paundi LU9 Mpasa School LU10 Chibiliti Community School LU15 Kandata School LU19 Washeni School LU21 Kabamgala School LU36 Malekani Shool LU42 Kapoma Village (Total 8 sites)	LU10 Chibiliti Community School LU21 Kabamgala School

8-2-3 Survey Results

The village inventory data is attached hereunder. The results of the village inventory survey, sample household survey and PRA are summarised as follows.

(1) Existing Water Supply Conditions

Availabe Water Source in the Target Sites

Availabe Water Source in the	larget 5	ites						
Type of Wate Source				Breakdown	s (%)			Total
	Mpika	Chinsali	Isoka	Nakonde	Mbala	Mpulungu	Luwingu	Total
Scoop Hole	23.4	16.0	11.9	17.0	22.8	5.7	35.9	20.0
Stream	29.7	40.0	32.8	22.6	29.1	58.5	10.3	30.4
Pond	0	6.0	0.0	1.9	0.0	0.0	1.3	1.1
Dambo	1.6	2.0	1.5	3.8	1.3	0.0	0.0	1.4
Hand Dug Well	26.6	22.0	31.4	34.0	21.4	13.1	34.6	26.6
Borehole	10.8	2.0	14.9	9.4	6.3	5.7	3.8	7.7
Spring	1.6	6.0	4.5	11.3	15.2	9.4	12.8	9.0
Dam	0	0.0	0.0	0.0	1.3	0.0	0.0	0.2
Public Taps	6.3	6.0	3.0	0.0	1.3	3.8	0.0	2.7
Furrows	0	0.0	0.0	0.0	1.3	3.8	1.3	0.9
Tota	100	100.0	100.0	100.0	100.0	100.0	100.0	100

(Village Inventory Survey Valid case 291, Missing case 0)

Main Water Source for Drinking Water

Type of Water Source	Mpika	Chinsali	Isoka	Nakonde	Mbala	Mpulungu	Luwingu	Total
Scoop Hole	29.3%	20.6%	7.5%	14.3%	22.6%	4.7%	34.1%	19.3%
Stream	29.3%	47.1%	45.0%	34.3%	35.8%	67.4%	20.5%	39.7%
Pond		2.9%						0.3%
Dambo	2.4%			2.9%				0.7%
Hand Dug Well	26.8%	14.7%	27.5%	31.4%	15.1%	7.0%	27.3%	21.0%
Borehole	2.4%		10.0%	5.7%	3.8%	2.3%	2.3%	3.8%
Spring	2.4%	8.8%	7.5%	11.4%	18.9%	11.6%	13.6%	11.0%
Public Taps	7.3%	2.9%	2.5%		1.9%	2.3%		2.4%
Furrow		2.9%			1.9%	4.7%	2.3%	1.7%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

(Village Inventory Survey Valid case 291, Missing case 0)

Perceptions of Water Quality

Type of Water Source	Good	Acceptable	Bad	Total
Scoop Hole	12.5%	38.9%	48.6%	100.0%
Stream	18.8%	46.4%	34.8%	100.0%
Pond	0.0%	33.3%	66.7%	100.0%
Dambo	0.0%	0.0%	100.0%	100.0%
Hand Dug Well	50.0%	31.1%	18.9%	100.0%
Borehole	30.8%	30.8%	38.5%	100.0%
Spring	46.7%	46.7%	6.7%	100.0%
Public Taps	71.4%	28.6%	0.0%	100.0%
Furrow	33.3%	0.0%	66.7%	100.0%
Total	28.0%	39.0%	33.0%	100.0%

(Sample Household Survey Valid case 300, missing case 0)

Perceptions of Water Quality

rerceptions of water	Quality			
Type of Water Source	Sufficient	Seasonal	Not Sufficient	
Scoop Hole	43.1%	51.4%	5.6%	100.0%
Stream	51.8%	41.1%	7.1%	100.0%
Pond	33.3%	66.7%	0.0%	100.0%
Dambo	0.0%	100.0%	0.0%	100.0%
Hand Dug Well	54.1%	40.5%	5.4%	100.0%
Borehole	76.9%	7.7%	15.4%	100.0%
Spring	93.3%	0.0%	6.7%	100.0%
Public Taps	85.7%	14.3%	0.0%	100.0%
Furrow	0.0%	33.3%	66.7%	100.0%
Total	53.3%	39.7%	7.0%	100.0%

(Sample Household Survey Valid case 300, missing case 0)

(4) Health and Hygiene

Type of Latrines for Household Use

Type of Latrine	Mpika	Chinsali	Isoka	Nakonde	Mbala	Mpulungu	Luwingu	Total
Pit latring	92.0%	90.0%	87.5%	82.1%	92.2%	74.4%	85.4%	86.7%
Improved latrine with								
concrete slab	0.0%	0.0%	0.0%	0.0%	2.0%	5.1%	0.0%	1.0%
VIP latrine	2.0%	2.5%	2.5%	5.1%	0.0%	0.0%	0.0%	1.7%
no latrine	6.0%	7.5%	10.0%	12.8%	5.9%	20.5%	14.6%	10.7%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

(Sample Household Survey Valid case 300, missing case 0)

Main Diseases

Diseases	Mpika	Chinsali	Isoka	Nakonde	Mbala	Mpulungu	Luwingu	Total
Malaria	33.3	32.0	37.5	29.4	32.5	32.3	35.5	33.1
Dysentery	4.1	5.8	5.6	0.8	3.1	3.9	1.7	3.5
Diarrea	30.1	27.2	28.0	23.6	26.9	29.9	28.9	27.8
Typhoid	0.8	1.0	0.9	1.7	0.0	0.0	0.8	0.7
Eye diseases	2.4	11.7	4.7	8.4	3.1	4.7	3.4	5.2
Skin diseases	4.1	2.9	0.0	7.6	10.0	8.7	2.5	5.5
Bilharzia	0.0	1.0	3.7	9.2	2.5	0.0	0.8	2.4
Others	25.2	18.4	19.6	19.3	21.9	20.5	26.4	21.8
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(Sample Household Survey Valid case $\,\,300$, missing case $\,\,0)$

Water and Disease Seasonality Diagram (PRA, Drawn by 6 women, Vimbuli Village, Mbala.)

Seasonal Fa	actors	J	F	М	Α	М	J	J	Α	S	0	N	D
Rainfall		0000	000	0000	0							00	000
			000	0000									
			000	00									
Water availa	ability	00	000	0000	000	000	000	00	0				
				0	000	000	0						
					0								
	Diarrhoea				000	000	000	000	000	0000	00000		
					0	00	000	000	000	0000	00000		
Prevalent								000	000	0000	0000		
Disease	Bilharzia	000	000	0000	000								
Pattern			0		00								
	Malaria	00000	000	0000	000	000	000	000	000	0000	00000	0000	0000
		0	000	0000	000	000	000	0	000	00		00	0000
					000	000							
					0	000							
	Scabies	00000	000	0000	000	000	000	000	000	0000	00000	0000	0000
		0000	000	0000	000	000	0	0	0	0		00	0000
			000		0								
			0										

Matrix scoring and Ranking for causes of diarrhea (PRA, Drawn by Women, Mubanga Village, Chinsali)

Primary cause of Diarrhoea	Accompanying Cause	Frequency of Cause	Cause Rank
		Score	
	Dirty run off to water source	0000	
Water related	 Water micro organisms 	0000	
	 Poor storage of water (uncovered) 	00	1
	Having no pit latrine; flies have access		
Poor hygiene related	to faecal matter and Transmitting	000	
	disease to foods	00	2
	 Having no rubbish pit 		
	 Unwashed utensils 		
	Over eating		
Food related	 Food gone bad 	00	3
	 Not cooked enough 		

(5) Communal Activities

Existing CBOs

	Respondent	%
Yes	272	93.8
No	18	6.2
Total	290	100

Type of Existing CBOs

(%)
23.6
13.4
24.9
18.6
13.0
4.9
1.6
100.0

Experiences of Communal Activities

	Respondent	%
Yes	256	88.3
No	34	11.7
Total	290	100

Ratio of Female Members

	Respondent	%
>50%	88	30.3
<50%	184	63.4
Unknown	18	6.2
Total	290	100

Contents of Communal Activities

Activities		%
Construction/Rehabilitation	of	
School/RHC		57.4
Construction/Rehabilitation	of	
raod/bridge		17.3
Construction/rehabilitation	of	
water supply facilities		5.8
Others	•	19.5
Total		100.0

Other Communal Activities	%
Women's Club	4.5
Construction of market	13.4
Construction of latrine	13.4
Income generating activities	3.0
construction of teachers house	4.5
construction of council	3.0
concstruction of storage house	6.0
organisation of cooperatives	4.5
construction of PHC	4.5
construction of dam	3.0
agricultural works	7.5
moulding bricks	11.9
construction of community hall	4.5
cleaning of water facilities	3.0
youth club	1.5
labour contribution	3.0
bee keeping	1.5
construction of police post	1.5
stone crushing	1.5
health and hygiene education	1.5
construction of shade at fish	
market	1.5
cattle rearing	1.5

(6) Operation and Maintenance of Water Supply Facilities

Responsible Organisation of O&M

Type of Wate Source	V-WASHE/W ater Committee	Health Committee	Others	Nothing	Total
Scoop Hole	7.1%	7.1%	76.8%	8.9%	100.0%
Stream	5.2%	5.2%	44.3%	45.2%	100.0%
Pond	0.0%	0.0%	0.0%	100.0%	100.0%
Dambo	0.0%	50.0%	0.0%	50.0%	100.0%
Hand Dug Well	18.0%	4.9%	59.0%	18.0%	100.0%
Borehole	45.5%	18.2%	36.4%	0.0%	100.0%
Spring	15.6%	9.4%	65.6%	9.4%	100.0%
Public Taps	57.1%	14.3%	28.6%	0.0%	100.0%
Furrow	40.0%	20.0%	40.0%	0.0%	100.0%
Total	12.8%	7.2%	54.8%	25.2%	100.0%

(Villge Inventory Survey Valid case 291, missing case 0)

Responsible Organisation of O&M "Others"

	Teacher	Community Members	Well Owners	Appointed among the village	School Pupils
Scoop hole	0.0%	86.0%	0.0%	2.3%	7.0%
Stream	3.9%	76.5%	3.9%	0.0%	5.9%
Hand dug well	5.6%	61.1%	19.4%	5.6%	0.0%
Borehole	0.0%	0.0%	0.0%	25.0%	0.0%
Spring	4.8%	76.2%	0.0%	0.0%	14.3%
Public Tap	0.0%	100.0%	0.0%	0.0%	0.0%
Furron	0.0%	100.0%	0.0%	0.0%	0.0%
Total	3.1%	74.2%	5.7%	2.5%	5.7%

Collection of Maintenance Fund for Existing Water Source

Type of Wtaer Source	yes	no	Total
Scoop hole	0.0%	100.0%	100.0%
Stream	0.9%	99.1%	100.0%
Pond	0.0%	100.0%	100.0%
Dambo	0.0%	100.0%	100.0%
Hand dug well	11.5%	88.5%	100.0%
Borehole	27.3%	72.7%	100.0%
Spring	3.1%	96.9%	100.0%
Public Tap	14.3%	85.7%	100.0%
Furrow	0.0%	100.0%	100.0%
Total	4.5%	95.5%	100.0%

(Village inventory survey Valid case 291, missing case 0)

Type of Existing Water Source * Willingness to Pay for Maintenance Fund for the New Water Facility

		-,	
Type of Wtaer Source	yes	no	Total
Scoop hole	93.1%	6.9%	100.0%
Stream	93.8%	6.3%	100.0%
Pond	66.7%	33.3%	100.0%
Dambo	100.0%	0.0%	100.0%
Hand dug well	90.5%	9.5%	100.0%
Borehole	84.6%	15.4%	100.0%
Spring	93.3%	6.7%	100.0%
Public Tap	85.7%	14.3%	100.0%
Furrow	100.0%	0.0%	100.0%
Total	92.0%	8.0%	100.0%

(Village inventory survey $Valid\ case\ 291$, missing case 0)

5-2-4 Village Inventory Data

The village inventory data are shown in the following pages for the 7 surveyed districts.

	Village Inv	entory Dat	ta				_																						
District Site No.	Site Name	Ward	Chief Area	arget Population Accessibility		Type of Existing Water Sources		Perceptions of Existing Main Water Soruce	T		Condition of the Existing Hand Dug		Condition of the Existing Borehole Water Supply Facilities		Ven		Existing Community-	Based Organisation					Ä,	Administrations or NGOs		Operation and Maintenance Activities	of Existing Main Water	ss which the Community ers can Contribute for ruction of New Water Facilities	Affordable Amount for Maintenance Fund (selected the preferable mode of payment by the respondent)
					Maing V Source Drink	e for Available	Quality of Water	f Quantity to of Water	aken to Ha	and Hand	ells in constructed?	Borehole Borehole	S Device	Who constructed? Wnen constructed?	Village Developm ent Committe	Cooper ative	PTA C	ealth V- comm WAS ttee HE	Com mitte e	ners Educa	th Constru aito ction of Latrine	Construc D tion of Water F Facility				Responsible Actor	Maintenan Where the ce Fund Maintenace (K/HH/m Fund is onth) Kept	Resource Membh Const	K/HH/m K/perso K/HH/ye onth n/month ar
MK 1	Kapoko	Nachikufu	Chikwanda	800 A	borehole	stream	bad	sufficient	5 .			1	1 India Mark II	Drill Africa 2002	2 yes	yes	yes	yes yes	yes n	no no	no	no	no n	o no	no relief food	V-WASHE/Water Committee V-WASHE/Water	500 village	labour,sand,stones	500 N/A N/A
MK 2	Chilonga	Nachikufu	Chikwanda	465 A	public ta	р	bad	seasonal	15 .			1	0 India Mark II	D-WASHE .	yes	yes	yes	yes no	yes n	no no	no	yes	no n	o no	no assisting orphans	Committee	no N/A	labour	500 N/A N/A
MK 3	Mpumba School	Chikanda	Mpumba	546 A	stream		bad	seasonal	10 .						no	no	yes	no no	no n	no no	no	no	no n	o no	no .	teachers wives	no N/A	labour	2,000 N/A N/A
MK 4	Mpumba Village	Chikanda	Mpumba	600 A	stream		bad	seasonal	15	1	1 D-WASHE .				no	no	yes	no no	yes n	no no	no	no	no n	o no	no .	nobody	no N/A	labour, sand	500 N/A N/A
	Lukulu Village	Chikanda	Mpumba		scoop h		bad	sufficient	30 .			1	0 Cylinder Bucke	t Irish Aid .	yes	yes	yes			no no		yes	no n		no construction of school	the villagers V-WASHE/Water	no N/A in the	labour,sand,stones	500 N/A N/A
MK 6		Chibwa	Luchembe		dug well		bad	sufficient	15	1	1				yes	no	yes		,	no yes		no		s yes	canal construction, road	Committee	500 village	labour,sand,stones	1,500 N/A N/A
	Katongo Kapala Mwateshi	Kanchibiya Lwitikila	chikwanda		stream	ala	bad	seasonal	15 .						yes			yes yes		no yes		no	yes n		no construction road construction,	nobody	no N/A	labour,sand,stones	500 N/A N/A 500 N/A N/A
	Chisongo Village	Nachikufu	chikwanda		scoop he		accentable	seasonal e seasonal	30						yes	yes	yes y			no no		no yes	no n	s yes	no constructing the bridge bee keeping, industrial no support	the villagers V-WASHE/Water Committee	no N/A	labour	500 N/A N/A No No No Answer Answer Answer
	Mukungule Village		Mukungule		scoop he			e seasonal	15	-		1	Cylinder Bucke	t Irish Aid	yes	no		no no		no no		no	no n		no ram press	the villagers	no N/A	labour,sand,stones	500 N/A N/A
	Lufila Village	Mutekwe	Mukungule		stream		bad	sufficient	30 .				. Oymiddi Badiid		yes		yes			no no		no	no n		no ram press	nobody	no N/A	labour	1,000 N/A N/A
	Kakoko Village	Mutekwe	Mukungule		stream		bad (salty) sufficient	10 .						yes	no		yes no		no no		no	no n		no construction of school	the villagers	no N/A	labour,sand,stones	2,000 N/A N/A
MK 13	Chifinshi Village	Lukulu	Chiundaponde	1,715 C	dug well		good	seasonal	15	8	7				no	no	no	yes yes	no n	no no	no	no	no n	o no	no .	the villagers	no N/A	labour,sand	N/A N/A 5,000
MK 14	Chishala School	Mutepwe	Mukungule	226 A	stream		bad	seasonal	5	1	0 D-WASHE .				yes	no	yes	no yes	no n	no no	no	no	yes n	o no	no .	nobody	no N/A	labour,sand,stones	N/A N/A 5,000
MK 15	Chobela School	Kaonda	Mukungule	250 A	dug well	scoop hole, stream	bad (mudo	dysufficient	15	1	1 D-WASHE .				no	yes	yes y	yes no	no n	no no	no	no	yes n	o no	no .	nobody	no N/A	labour,sand,stones	5,000 N/A N/A
MK 16	Chishala Village	Mutekwe	Mukungule	156 A	scoop h	ole stream	bad	seasonal	30	1	0 D-WASHE .				yes	yes	yes	yes yes	no n	no no	no	no	no n	o no	no .	V-WASHE/Water Committee	no N/A	labour	1,000 N/A N/A
MK 17	Chobela Village	Kaonda	Mukungule	105 A	scoop h	ole stream	acceptable	e seasonal	10 .						no	yes	yes	yes yes	no n	no no	no	yes	yes n	o no	no .	the villagers	no N/A	labour,sand,stones	500 N/A N/A
MK 18	Mwamfushi Village	Chikufu	Chikwanda	2,000 A	dug well		good	sufficient	15	7	5 council .				no	yes	no	no no	no n	no no	no	no	no n	o no	yes . construction of storage	the villagers	no N/A	labour,sand,stones	200 N/A N/A
MK 19	Kaluba Village	Chipembele	Mukungule	2,500 A	scoop he	ole stream	bad	seasonal	30	1	0	1	0 .	Council .	yes	yes	yes y	yes yes	no n	no no	no	no	no ye	s no	no shed	the villagers	no N/A	sand,stones	1,000 N/A N/A
MK 20	Ifunda Village	Mpika Central	Chikwanda	510 A	scoop h	ole	good	sufficient	3	1	0				yes	no	yes	no no	yes n	no no	no	no	no n	o no	no . road construction,	the villagers	no N/A	labour,sand,stones	1,000 N/A N/A
	Mufubushi Village	Nachikufu	Chikwanda		stream		bad	seasonal	15	1	0 ESP .	1	0 Cylinder Bucke		yes	yes	yes	yes no	no n	no no		no	yes n		no constructing the bridge	the villagers V-WASHE/Water	no N/A	labour,sand,stones labour,sand,	No No No
	Malambwa Village		Chikwanda		dug well			not sufficie	30	20	20	1	1 India Mark II	Irish Aid .	yes					no yes		yes	no n		no .	Committee	no N/A	moulding bricks labour, moulding	Answer Answer Answer
	Mpepo Village	Chambeshi	Мреро		stream	dug well	bad	sufficient	40	75	10 themselves .			-	yes	yes		no no		no yes		no	no n		no .	Health Committee	no N/A	bricks	2,000 N/A N/A
MK 25	Chambeshi Village Kamulamwiko	Chambeshi	Мреро Мреро		stream dug well		bad	sufficient e sufficient	10.	1	1 D-WASHE .				no	no				no no yes		no yes	no n	o no		nobody the headman	no N/A	labour labour,moulding bricks	1,000 N/A N/A 2,000 N/A N/A
	Kaole Village	Nachikufu	Chikwanda			dug well, ole borehole		seasonal	15	1	1 ESP .	1	1 India Mark II	Irish Aid							s no					the villagers	no N/A	labour	N/A N/A 5,000
	Ndakala Village	Kanchibiya	Luchembe	300 A		olo Bololiolo		e seasonal	40 .						no			no no		no no			no n			the villagers	no N/A	labour,sand,mouldir g bricks	
MK 28	Aluni Village		Luchembe	1,300 A	scoop he	ole	bad	sufficient	3 .						N/A	N/A	N/A I	N/A N/A			s no	no	yes n	o no	no .	the villagers	no N/A	labour,sand,mouldir g bricks	No No No No Answer Answer
MK 29	Luchembe Village		Luchembe	1,200 A	dug well	scoop hole	good	sufficient	20	2	2 D-WASHE .				yes	yes	yes	no no	yes n	no no	no	no	yes ye	s no	no .	V-WASHE/Water Committee	no N/A	labour,sand	1,000 N/A N/A
MK 30	Chisengo		Мрере	516 A	dug well	scoop hole	bad	seasonal	10	2	community 2 themselves .				yes	no	no	no no	no n	no no	no	no	no n	o no	no .	nobody	no N/A	labour,sand,stones	1,000 N/A N/A
MK 31	Chakopo Village	Lubaleshi	Luchembe	3,000 A	dug well		good	sufficient	60	3	3				yes	no	no	no yes	no n	no no	no	no	no n	o no	no educational assistance	teachers	no N/A	labour,sand	5,000 N/A N/A
MK 32	Mukungule Palace	Chipembele	Mukungule	243 A	scoop h	dug well, ole stream	acceptable	e sufficient	20	1	1	1	1 India Mark II	Drill Africa .	yes	yes	yes y	yes no	no n	no no	no	no	yes n	o no	no agriculture, bee keeping	nobody	no N/A	labour,sand,stones	No No No Answer Answer
MK 33	Chikole Village	Chibwa	Luchembe	455 A	scoop he	ole	bad	seasonal	30	2	0 DWA .				yes	yes	yes	yes yes	no n	no no	no	no	no n	o no	no educational assistance	the villagers	no N/A	labour	500 N/A N/A
MK 34	Chikwanda Village	Lwitikila	Chikwanda	800 A	stream		bad	sufficient	15 .			1	0 .		yes	yes	yes	no no	no n	no no	yes	no	no n	o no	no agriculture	the villagers	no N/A in the	labour,sand,stones	1,000 N/A N/A
	Mundemwa School		Chikwanda	728 A	spring		bad (mudo	dyseasonal	30 .	-					no	no	yes	no no	no n	no yes			no n	o no	no .	the villagers	2500 village	labour,sand,stones	
			Masongo	265 A				dyseasonal	20	7	7	1	1 India Mark II	D-WASHE .	yes			no no		no no				o no		the villagers	no N/A	labour,sand,stones	250 N/A N/A
	Kopa Village	Chinama	Кора	1,200 A			good	seasonal	25	3	1	1	1 India Mark II	church .	yes			no no		no yes				o no	no .	owners of wells	no N/A	labour	500 N/A N/A
	Kopa School Mpandafishala	Chinama	Kopa	573 A	•		bad	seasonal	30	3	1	1	1 India Mark II	church .	yes	no	yes	no no	no n	no yes	s no	no	no n	o no	no .	appointed of wells	no N/A	labour,sand	N/A N/A 5,000
	Community New Kamwanya	Musakanya	Chikwanda	The site does			acad	not sufficie	30 .						1/02	nc	200	20 22	nc	no no	no	V00	no n	o no	no .	V-WASHE/Water Committee	no N/A	labour,sand,stones	500 N/A N/A
MK 41	Chiundaponde	iviusakaliya	Onnwanua	Inaccessible	•		good	not Suilicit	JU .	-					yes	110	110	no no	поп	110	110	yes	no n	J 110	no .	O O O O O O O O O O O O O O O O O O O	IIO IN/A	iabour,sariu,stories	JOU IN/A IN/A
MK 42	Chiundaponde			Inaccessible																									
	Chiundaponde RH0	С		Inaccessible																									
	Kashaita Village	Mfuwe	Mukungule	800 A			acceptable	e sufficient	40 .						yes	no	no	no no	no n	no no	no	no	no n	o no	no agriculture	nobody	no N/A	labour,sand	1,000 N/A N/A
	Kashila Village	Mfuwe	Mukungule	1,000 A		dug well		dyseasonal	30	3	3				no			no no						o no	no .	Health Committee	no N/A	labour,sand, stones moulind bricks	
		•	-										_	•	•														

Village Inve	entory Da	ıta																									
District Site No.	Ward	Chief Area	Farget Population Accessibility		Type of Existing Water Sources	Perceptions of Existing	Main Water Soruce	No of I	Condition of the Existing Hand Dug Wells		Condition of the Existing Borehole Water Supply Facilities	Villaga	Existing Community-	Based Organisation	Water			Nanatara Distrib	Experiences of External Support by the Local	Administrations or NGOs		Operation and	of Existing Main Water	Where the	es which the Community ers can Contribute for truction of New Water Facilities	Affordable Amount for Maintenance Fund (selected the	preferable mode of payment by the respondent)
				Maing W Source Drinkin	for Water	Quality of Qua Water of W			lo. of nd Dug Who ells in constructed? Use	When constructed? No. of Borehole Boreholes in Use	Type of Pumping Who constructed? Wnen constructed?	Village Developm ent Committe	otive PTA C	ealth V- comm WA ttee HE	S Com		Constru	Construc Distril tion of ion of Water Food Facility eec	of Skill	Literac M y Class C	ficro Others	Responsible Actor	ce Fund	Maintenace Fund is Kept	Reso C M	onth n/m	
CH 1 Mubanga Village	Chilinda	Mubanga	568 A	stream		acceptable suffic	cient 30					yes	yes yes	yes yes	s no	no no	no	no no	no	no	no .	the villagers	no	N/A	moulding bricks A	No No Answer Ans	No Swer Answer
Mpyanavwalya CH 2 Village	Lubwa	Nkula	700 A	scoop ho	ole	bad seas	onal 15					no	yes yes	yes no	no	no no	no	no no	no	no	no .	the villagers	no	N/A	labour,sand,stones, moulding bricks	1,000 N/A	N/A
CH 3 Musanya School	Malalo		267 A	stream	dug well	bad seas	onal 15	5	community 3 themselves			yes	yes yes	yes no	no	no no	no	no yes	no	no	no .	the villagers	no	N/A	labour,sand,stones N	N/A N/A	5,000
CH 4 Kalela Village 1	Itapa	Mubanga	1,000 A	stream	dug well	bad (muddyseas	onal 10	12	4 .			yes	no yes	yes yes	s no	no no	no	yes no	no	no	no .	nobody	no	N/A	labour	1,000 N/A	N/A
CH 5 Lubu Scheme	Chinsali	Nkula	216 A	dug well	stream	bad suffic	cient 90	4	4 DWA			no	yes no	no no	no	no no	no	yes yes	no	no	no .	owners of wells	no	N/A		N/A N/A	10,000
CH 6 Nambuluma Village	Kaso	Mubanga	575 A	dug well	stream, bor	rel acceptable suffic	cient 90	1	1.	. 1 1	Cylinder Bucket Irish Aid .	yes	no yes	yes yes	s no	no no	no	no no	no	no	no .	nobody V-WASHE/Water	no	N/A	proving security service	1,000 N/A	N/A
CH 7 Mulanga Village	Chamisenga	Chibesakunda	776 A	spring	public tap	bad seas	onal 30	3	2 the church	1989		no	yes yes	yes yes	s no	no no	no	no no	no	no	no .	Committee	no	N/A	labour,sand,stones, moulding bricks	N/A N/A	5,000
CH 8 Musapa Village	Kaunga	Nkweto	310 A	stream		bad suffic	cient 15					no	yes yes	no no	no	no no	no	no no	no	no	no agriculture	Health Committee V-WASHE/Water	no	N/A	labour,sand,stones	500 N/A	N/A
CH 9 Chabala Village	Mukumbi	Mukwikile	400 A	dug well		good suffic	cient 30	1	1 .			no	no yes	no yes	s no	n organ no	no	no no	no	no	no .	Committee	no	N/A	labour,sand,stones N	N/A N/A	5,000
CH 10 Kalela Village 2 Chibesakunda	Itapa	Mubanga	1,000 A	stream	dug well	bad (muddyseas	onal 10	12	4 .			yes	no yes	yes yes	s no	no no	no	yes no	no	no	no .	nobody the villagers,	no	N/A	labour	1,000 N/A	N/A
CH 11 School	Muchinga	Chibesakunda	600 A	furrow	stream, dug	y acceptable seas	onal 15					yes	yes no	no no	yes	no yes	no	yes no	no	no	no .	appointed of wells	no	N/A	labour,sand,stones labour,sand,stones,	2,000 N/A	N/A
CH 12 Kabangama School	Chandauka	Chibesakunda	327 A	stream		bad suffic	cient 15					yes	yes yes	yes yes	s no	no yes	yes	no no	no	no	no .	the villagers	no	N/A	clearing sites	1,000 N/A	N/A
CH 13 Chinkalanga School	Chibinda	Nkula	287 A	stream		bad suffic	cient 20					no	yes yes	yes no	no	no no	no	no no	no	no	no .	nobody	no	N/A	labour,sand,stones N	N/A N/A	10,000
CH 14 Sele School	Ichingo	Nkula	211 A	scoop ho	ble	good suffic	cient 5					no	yes yes	no yes	s no	no no	no	no no	no	no	no .	the villagers	no	N/A	labour,sand,stones labour,sand,stones,	1,000 N/A	N/A
CH 15 Lubwa Village	Lubwa	Nkula	800 A	scoop ho	ole pond	bad seas	onal 30					yes	yes yes	yes yes	s no	no no	no	no no	no	no	no .	the villagers	no	N/A	moulding bricks	1,000 N/A	N/A
CH 16 Mungulube School	Chibinda	Nkula	315 A	scoop ho	ole	bad suffic	cient 20					no	yes yes	no yes	s no	no no	no	no no	no	no	no .	school committee	no	N/A	labour N	N/A N/A	2,000
CH 17 Poya School	Chibanda	Nkula	237 A	stream		acceptable suffic	cient 60					yes	yes yes	no no	no	no no	no	no no	no	no	no .	the villagers	no	N/A	labour,sand,stones labour,sand,stones,	10,000 N/A	N/A
CH 18 Chibesa School	Lubwa	Nkula	348 A	stream		bad suffic	cient 7					yes	no no	yes no	no	no no	no	no no	no	no	no .	nobody	no	N/A	cas	500 N/A	N/A
CH 19 Mwalala School	Lubwa	Nkula	500 A	stream		bad suffic	cient 10		community			yes	yes yes	yes no	no	no no	no	no no	no	no	no .	nobody		N/A	labour,sand,stones	500 N/A No No	
CH 20 Chandamali Village	Ikunga	Nkula	2,000 A	public tap	p dug well	good suffic	cient 60	8	6 themselves			yes	no no	no no	no	no yes	no	yes no	no	no	no .	the villagers		account			swer Answer
CH 21 Kantimba School	Nkulungwe	Mwaba	272 A	spring	stream	bad suffic	cient 20					no	no yes	no yes	s no	no no	no	no yes	no no	no	no . rehabilitation of school	the villagers	no	N/A	labour,sand,stones N	N/A N/A	2,000
CH 22 Vitondo School	Chipanga	Nkweto	229 A	spring		good seas	onal 30		community			yes	yes yes	yes no	no	no yes	yes	yes yes	yes	yes y	yes infrastructure	the villagers	no	N/A	labour,sand,stones N	N/A N/A	2,000
CH 23 Matumbo Village	Muchinga	Chibesakunda	2,150 A	stream	dug well	acceptable suffic	cient 20	2	1 themselves	. 1 0	India Mark II DWA 2000	yes	no no	no no	no	no no	no	no no	no	no	no assisting orphans	Health Committee	no	N/A	labour,stones	3,000 N/A	N/A
CH 24 Musonko School	Mukumbi		272 B	pond		bad suffic	cient 30		community			no	no yes	yes no	no	no yes	no	no yes	no	no	no .	nobody	no		moulding bricks labour,sand,stones,	1,000 N/A	. N/A
CH 25 Choshi Village		Nkula	3,000 A	dug well	public tap	acceptable seas	onal 30	2	2 themselves community			no	no yes	no no	no	no yes	no	no no	no	no	no .	the villagers the villagers, owners		wells	moulding bricks	100 N/A	N/A
CH 26 Mukwikile Palace	Mukumbi	Mukwikile	125 A	scoop ho	ole stream, dug	g v bad not s	ufficie 45	5	4 themselves	2000		yes	yes yes	yes no	no	no yes	no	no yes	no	no	no mobilization, advising		no	N/A	labour,sand,stones	1,000 N/A	N/A
CH 27 Kapashi Village	Chamusenga	Chibesakunda	574 B	stream	pond	good seas	onal 10			. 1 0	Cylinder Bucket IRDP 1970	yes	no no	yes no	no	no no	no	no no	no	no	no .	the villagers	no	N/A	labour,sand,stones N	i/A N/A	5,000
CH 28 Mukungwa School	Mukumbi	Mukwikile	230 A	stream		acceptable suffic	cient 25					no	yes yes	no no	no	no no	no	no no	no	no	no .	school children	no	N/A	labour,sand,stones N	I/A N/A	2,000
CH 29 Kapisha School	Mayembe	Mukwikile	231 A	stream		acceptable suffic	cient 30					yes	yes yes	yes no	no	no no	no	no no	no	no	no .	nobody	no	N/A	labour,sand,stones	500 N/A	N/A
CH 30 Kalisha School	Chilinda	Mubanga	510 A	stream		acceptable suffic	cient 20	1	0 .			yes	no yes	no yes	s no	no no	no	no no	no	no	no .	nobody	no	N/A	labour,sand,stones	2,000 N/A	. N/A
CH 31 Shimwalule School	Kaunga	Nkweto	300 A	dug well		acceptable suffic	cient 10					yes	yes yes	yes no	no	no no	no	no no	no	no	no .	Health Committee	no	N/A		5,000 N/A	N/A
CH 32 Cheswa School	Chambeshi	Nkula	270 A	dug well		acceptable suffic	cient 10	1	0 DWA			no	no yes	yes no	yes	no no	no	no no	no	no	no .	school children	no	N/A	labour,sand,stones, poles,cash	1,000 N/A	. N/A
CH 33 Chipunga School	Mwanwakubili	i Nkula	238 A	stream		bad seas	onal 15					yes	no yes	yes no	no	no yes	yes	yes yes	yes	yes	yes .	the villagers	no	N/A	labour,sand,stones N	I/A N/A	10,000
CH 34 Mupeka School	Malalo	Mubanga	200 A	stream		bad suffic	cient 30					no	yes yes	yes no	no	no no	no	no no	no	no	no .	nobody	no	N/A	labour,sand,stones N	I/A N/A	2,500
CH 35 Bwinambo School			Inaccessible	to the site																							
CH 36 Chilunda School	Chilinda	Mubanga	370 A	dug well		bad suffic	cient 10	1	1 Ireland Aid	1997		yes	no no	no no	no	no no	no	no yes	no	no	no .	school committee	no	N/A	labour	500 N/A	N/A

	Village Inve	entory Dat	ta																													
District Site No.	Site Name	Ward	Chief Area	farget Population Accessibility		Type of Existing Water Sources		Perceptions of Existing Main Water Soruce	Time N	the condition of No. of No. of	Existing Hand Dug Wells			Condition of the Existing Borehole Water Supply Facilities			(illara	Existing Community- Based Organisation	I Was			Construe	Experiences of External Support by	the Local Administrations or NGOs			Operation and	of Existing Main Water Source Source	es which the Community ers can Contribute for truction of New Water Facilities	Affordable Amount for	Maintenance Fund (selected the preferable mode of	payment by the respondent)
				,	Maing Wat Source fo Drinking	or Water	Quality of Water		aken to I	Hand Hand Dug Dug Wells in Wells Use	Who constructed?	When constructed?	Borehole Boreho	oles Type of Pumpir	constructed? cor	nen Dev	fillage velopm Cooper ent ative mmitte	PTA Health Committee	WAS HE	Others Edi	lealth Const lucaito ction n Latrii	of Water	ion of Skil Food/S Traini			Others	Responsible Actor	ce Fund Maint (K/HH/m Fun	enace à la li		n/month	K/HH/ye ar
IS 1 We	enela	Kakoma	Muyambe	784 A	stream	scoop hole	bad	seasonal	30 .								no yes	yes no	no no	o no	no no	no	no no	no	no .		nobody	no N/A	labour,sand,stone moulding bricks		N/A	N/A
IS 2 Ka	ıfwimbi C	Milonga	Kafwimbi	1,000 A	borehole	dug well stream, du	good	sufficient	60	4 3	community themselves		3	Cylinder Bucke 3 & IMKII	Irish Aid, MPU .		yes yes	yes yes	no no	o no	no no	yes	yes no	no	no į	paying patients fees	V-WASHE/Water Committee	no N/A	labour,sand,stone	s N/A	N/A	1,000
IS 3 Ka	pembe	Mukutu		157 A	spring	well	acceptable	e sufficient	30	1 1	1.						yes yes	yes no	no no	o no	no no	no	no no	no	no .		Health Committee	no N/A	labour,sand,stone	s 1,000	N/A	N/A
IS 4 Ntu	umbi		Kafwimbi	105 A	dug well		good	sufficient	4	4 4	1 .	2000				1	N/A N/A	N/A N/A	N/A N/	A N/A	no no	no	no no	no	no .		nobody	no N/A	labour labour,sand,stone		N/A	N/A
IS 5 Mu		Luangwa	Katyete		stream	dug well,		dysufficient	10 .								no yes	yes yes	,		no no		yes no		no .		the villagers	no N/A	cash labour,sand,stone	s,	N/A	5,000
IS 6 Ch	J	Mafinga	Kampumpu	215 B	stream	borehole	bad (colty)	seasonal seasonal	60	1 '	I Ireland Aid		1	1.			no no		no no		no no		no no ves no		no .		nobody	no N/A	moulding bricks	1,000	N/A N/A	N/A N/A
IS 8 My					e to the site		Dau (Saity)) seasonai	3.	-							110 110	yes 110	110 110	o no	110 110	110	yes 110	110	110 .		Hobody	IIO IN/A	laboui,casii	2,300	JIN/A	IN/A
		Mpungu	Mweniwisi		stream		acceptable	e sufficient	20 .							,	yes no	yes no	no no	o no	no no	no	no no	no	no a	agriculture	V-WASHE/Water Committee	no N/A	labour,poles	2,000	N/A	N/A
IS 10 Mv	veniwisi School			Inaccessible	e to the site																											
IS 11 Na	ımisuku (Kalungu)	Sansamwenje	Kafwimbi	1,676 A	stream	dug well	bad	seasonal	40	18 18	3 .		2	0 .	Irish Aid .		yes no	no yes	yes no	o no	no no	no	yes no	no	yes .		the villagers	no N/A	labour,sand,stone	s 5,000	N/A	N/A
IS 12 Mv	waiseni Village A	Milongo	Kafwimbi	200 A	stream	dug well, borehole	acceptable	sufficient	60	1 1	World Bank	1992	1	1 India Mark II	Irish Aid	2003	yes yes	yes yes	no no	o no	no no	no	no no	no	no a	agriculture	owners of wells	no N/A	labour,sand,stone	s 1,000	N/A	N/A
IS 13 Ch	nanama	Mukutu	Chipungwe	350 B	stream		acceptable	e sufficient	10 .	-							yes no	no no	no no	o no	no no	no	no no	no	no .		Health Committee	no N/A	labour,sand,stone		N/A	N/A
		Kapililonga	Kafwimbi		stream		bad	not sufficie	10		council				. Irish Aid, Drill		yes no	no no	no no		no no		yes no		no .		nobody V-WASHE/Water	no N/A	cash labour,sand,stone			0 N/A
IS 15 Ka		Kapililonga	Kafwimbi		dug well	borehole	good	seasonal	30	1 1	I Ireland Aid		1	1 India Mark II	Africa .		no yes	yes no			no no		no no			agriculture	Committee		nswer moulding bricks	10,000		N/A
IS 16 Tu		Kalanga Kalanga	Muyombe Muyombe	1,803 A			good	seasonal	30 .									N/A N/A			no no		no no		no .	educational assistance	nobody	no N/A	labour,cash		N/A	N/A N/A
IS 18 Ch		Mupapa	Kafwimbi		stream			e sufficient	30	3 (community themselves		1	0	D-WASHE, World Bank .		yes no	no no	no no		yes yes		yes no		no .	educational assistance	the villagers	no N/A	labour,sand,stone moulding bricks	s,	N/A	N/A
IS 19 Mv		Kapililonga	Kafwimbi		borehole	public tap		sufficient	15	1 () .		1	1 Cylinder Bucke			yes yes	yes no			no no		no no		no .		Council		labour,sand,stone	s,	N/A	N/A
IS 20 Lu				900 B	stream			dysufficient	15 .								no no	yes no	no no	o no	no no	no	no no	no	no d	construction of school	nobody	no N/A	labour,sand,stone	s 500	N/A	N/A
IS 21 Mu	utukumbi	Sansamwenje	Kafwimbi	2,000 A	dug well		acceptable	e seasonal	5	2 2	2 .	-					no yes	yes yes	no no	o no y	yes no	no	no no	no	no .		nobody	no N/A	labour,sand,stone moulding bricks	500	N/A	N/A
IS 22 No	a's Village	Kapililonga	Kafwimbi	180 A	scoop hole	•	bad	seasonal	40 .							_ ,	yes no	no no	no no	o no y	yes no	no	yes no	no	no .		the villagers	no N/A	labour,sand,stone moulding bricks		N/A	5,000
IS 23 Ko	samu Village	Kapililonga	Kafwimbi	402 A	dug well		bad	sufficient	15	1 1	1.						no no	no no	no no	o no	no no	no	yes no	no	no .		Health Committee	no N/A	labour,sand,stone	s N/A	N/A	5,000
IS 24 Ny	rengo Village	Milongo	Kafwimbi	177 A	stream		bad (mudd	dyseasonal	10 .			-				- 1	N/A N/A	N/A N/A	N/A N/	A N/A	no no	no	yes no	no	no .		teachers	no N/A	labour	1,000	N/A	N/A
	chitambule Village		Mwenichifungwe		dug well			sufficient	5	1 1	1.							yes yes			no no		no no		no .		Irish Aid	no N/A	labour labour,sand,stone	s,	N/A	1,000
Th	endere Basic	Thendere	Mwenichifungwe		dug well			sufficient	3	1 1	Ireland Aid	2001	1	0 Cylinder Bucke	t Irish Aid					o no y					no .		Health Committee	no N/A	cash labour,sand,stone	s,	N/A	
IS 27 Sc	uyombe Village A	Thendere	Mwenichifungwe Muyombe		stream scoop hole	stream, du		seasonal	10	2 .	D-WASHE	1996	1	0.				yes no		o no y	no no		yes no	no	no r	paying patients fees	School committee Health Committee	no N/A	moulding bricks		N/A N/A	N/A N/A
	ninyansi Village	Ŭ	Kafwimbi	1,008 A		stream, dambo		e sufficient	60 .	<u> </u>			1	0.	D-WASHE .			no no			yes no			no	no .		the villagers	no N/A	labour,sand,stone			N/A
	nipokoso Village			Inaccessible	e to the site																											
IS 31 Vill	insamwenje lage	Sansamwenje	Kafwimbi	230 A	dug well	borehole	good	seasonal	15	3 3	3 .		1	1.			yes yes	yes yes	yes ye	s n organ	no no	no	yes no	no	no .		nobody	no N/A	labour,sand,stone moulding bricks	N/A	N/A	5,000
	intensha (Yazaza) chinga (Choma)		Kafwimbi	130 B	stream	dug well	good	sufficient	15	1 (Ireland Aid	1999	1	1.	Irish Aid, Drill Africa	2003	no yes	yes yes	no ye	s no	no no	no	yes no	no	no v	women's tailoring club	nobody V-WASHE/Water	no N/A	labour,sand,stone cash		N/A	N/A
IS 33 Vill		Kakoma	Muyombe	112 A	dug well	scoop hole	bad	seasonal	30	1 1	I Ireland Aid	1997	1	1 Cylinder Bucke	et Irish Aid .		yes yes	yes no	no no	o no	no no	no	no no	no	no .		Committee V-WASHE/Water	no N/A	labour,sand,stone	s N/A	N/A	3,000
IS 34 Ka	wenga		Kafwimbi	1,000 A	public tap		good	sufficient	5 .								no no	no yes	no ye	s no	no no	no	no no	no	no .		Committee V-WASHE/Water	no N/A	cash	1,000	N/A	N/A
IS 35 Ka	Ī	Sansamwenje			dug well			not sufficie	60	3	1 .						no no	no yes	yes no		no no		no no		no .		Committee		nswer labour,sand,stone		N/A	500
	-	Kapililonga	Kafwimbi		borehole	dug well	acceptable		30	1 1	community	1998		1.				yes no			no no		no no		no .		Health Committee		nswer labour,sand,stone		N/A	30,000
IS 37 Na	ımyala ılungwizi Village	Sansamwenie	Kafwimbi		borehole	scoop hole	good good	sufficient	30 40		themselves I Ireland Aid	1999	1	1 .	Irish Aid		no no		no ye		no no yes yes		no no yes no	no	no .		appointed of wells V-WASHE/Water Committee	no N/A	labour,sand,stone labour,sand,stone moulding bricks		N/A	5,000 N/A
		Intonga	Mwenechifungwe		scoop hole		bad	sufficient	10.	1.	. neidilu Ald							yes yes			no no		no no		no .		Health Committee	no N/A	labour,sand		N/A	N/A
	vaiseni Village C		Kafwimbi		stream	dug well, borehole	good	sufficient	45	1 1	I Ireland Aid		1	1 India Mark II	Irish Aid			N/A N/A			no no		yes no		no .		owners of wells	no N/A	labour,sand,stone	ıs,	N/A	5,000
	ıchisitu Village		Mweniwisi	500 B		dug well		seasonal	10	1	community themselves	2000						yes yes	yes ye		no no		no no		no .		Health Committee	no N/A	labour,cash		N/A	N/A
IS 42 Ch	nimungoto Village	Kalanga	Muyombe	600 A	dug well	scoop hol	e acceptable	e sufficient	48	3 3	community themselves				- -		yes no	no no	no no	o no	no no	no	no no	no	no e	educational assistance	nobody	no N/A	labour,cash	500	N/A	N/A
IS 43 Mu	ulekatembo	Tongaward 16	Mulekatembo	200 A	stream		bad (mudd	dyseasonal	60 .						. .		yes yes	yes yes	yes no	o no	no no	no	yes no	no	no .		Health Committee	no N/A	labour,sand,stone	s 2,000	N/A	N/A

Village Inve	entory Da	ta																									
District Site No.	Ward	Chief Area	arget Population	Ancesson	Type of Existing Water Sources	Perceptions of Existing Main Water Soruce	Time	No. of J. Mo	Condition of the Existing Hand Dug Wells		Condition of the Existing Borehole Water Supply Facilities	Villa	Existing Community-	Dased Organisation	lw			0	Experiences of External Support by	Administrations or NGOs		Operation and	Maintenance Activities of Existing Main Water Source	Misson	es which the Community ers can Contribute for ruction of New Water Facilities	Affordable Amount for Maintenance Fund (selected the	preferable mode of payment by the respondent)
				Maing Wat Source fo Drinking	or Water	Quality of Quantity Of Water		No. of No Hand Hand Dug Wel Wells U		When constructed? No. of Borehole in Use	Type of Pumping	Developm c ent Committe	n Cooper PTA C	ealth V- omm WAS ttee HE	S	Others Educait n	Constru	Construc Dis tion of ic Water Fo Facility		Literac M y Class C	licro Others	Responsible Actor	ce Fund	n Where the Maintenace Fund is Kept	Resour Memi Cons	C/HH/m K/po onth n/m	erso K/HH/ye onth ar
NA 1 Nakakola Village (A) Popomozi	Waitwika	1,000 A	Astream	dug well	good sufficier	nt 10	1	1 Ireland Aid	1997		yes	no yes	yes yes	s no	no no	no	yes y	es no	no	no .	the villagers	no	N/A	labour,sand,stones, moulding bricks	I/A N/A	2,000
NA 2 Kawele School		Waitwika	232 A	Astream		bad seasona	al 10					no	no yes	yes yes	s no	no no	no	no	no no	no	rehabilitation of school no infrastructure	V-WASHE/Water Committee	no	N/A	labour,sand,stones	2,000 N/A	N/A
NA 3 Kandalala Village	Popomozi	Waitwika	192 A	scoop hole		acceptable seasona	al 30					no	yes yes	yes no	no	no no	no	no	no no	no	no .	the villagers	no	N/A	labour,sand,stones, cash	N/A N/A	1,000
NA 4 Kawele Village			800 A	A dug well	spring	good sufficier	nt 20	1	1 .			no	no no	no no	yes	no no	no	no	no no	no	no .	nobody	no	N/A	labour,sand,stones labour,sand,mouldin	No No Answer Ans	wer Answer
NA 5 Burton Village	Popomodzi	Waitwika	1,115 A	A stream		acceptable not suff	ici No Answe	2	0 themselves			yes	yes yes	no no	no	no no	no	yes	no no	no	no assisting orphans	nobody V-WASHE/Water	no	N/A	g bricks	5,000 N/A No No	
NA 6 Nega (A) Kasakalabwe	Musyani	Waitwika	324 A	dug well	spring	good seasona	al 10	1	1 Ireland Aid	1999		yes	yes no	yes yes	s no	no no	no	yes	no no	no	no .	Committee	no	N/A	1	Answer Ans	
NA 7 Village	Mulalo	Waitwika	207 A	Astream		bad seasona	al 5					yes	no yes	no no	no	no no	no	no y	es no	no :	/es .	the villagers	no	N/A	moulding bricks	N/A	5,000
NA 8 Mayembe Village	Chiwanza	Waitwika	309 A	dug well	borehole	good seasona	al 3	10	10 .	. 1	1 Cylinder Bucket Irish Aid 1997	7 no	yes no	no yes	s no	no no	no	no	no no	no	no .	owners of wells	no	N/A	labour,sand,stones, moulding bricks labour,sand,stones,	1,000 N/A	N/A
NA 9 Mipulya School	Luchinde	Waitwika	320 A	Astream	dua wall	bad seasona	al 30					yes	yes yes	yes yes	s no	no no	no	no y	es no	no	no .	nobody	no	N/A		N/A	5,000
NA 10 Nachipeta A	Ngumba	Waitwika	260 A	Aspring	dug well. Borehole	bad sufficier	nt 10	2	2 DWA	1980 1	1 Cylinder Bucket . 2000	0 no	yes no	no no	no	n organ no	no	no	no no	no	no construction of school	the villagers V-WASHE/Water	no	N/A in the	sand,stones	500 N/A	N/A
NA 11 Isasa Village	Luchinde	Waitwika	170 A	Astream	dug well	bad (muddyseasona	al 30	1	1 .	1997		yes	no yes	no yes	s no	no no	no	no	no no	no	no .	Committee	1000	village	labour,sand,stones Nabour,sand,stones,	V/A 1	,000 N/A
NA 12 Uzinji School	Luchinde	Waitwika	243 E	3 spring		good sufficier	nt 10	1	0 Ireland Aid	1982		yes	yes yes	yes yes	s no	no no	no	no y	es no	no	no .	school children	no	N/A		N/A N/A	5,000
NA 13 Chiwale school	llonda	Waitwika	135 A	A dug well		bad seasona	al 60	2	1 .			N/A	N/A N/A I	N/A N/A	N/A	N/A no	no	no	no no	no	no .	owners of wells	no	N/A	labour,sand,stones Nabour,sand,stones,i	N/A	2,000
NA 14 Nankungulu School	Musele	Mwenempamba	175 A	A scoop hole)	acceptable not suff	ici 30		community			yes	no yes	yes no	no	n organ no	no	no	no no	no	no .	the villagers the villagers, schoo		N/A	n kind	1,000 N/A	N/A
NA 15 Chisambwe School		Mwenempamba	150 E	dug well		bad seasona	al 20	3	3 themselves			yes	no yes	yes yes	s no	no no	no	no	no no	no	no .	committee		N/A	labour,sand,stones	500 N/A	N/A
NA 16 Kazembe School Yolo Community			Inaccessibl	le to the site					community																		
NA 17 School	Nakonde	Waitwika	240 A	Astream	dug well	acceptable sufficier	nt 40	3	3 themselves			no	yes no	no no	no	no no	no	no	no no	no	no .	the villagers	no	N/A	labour,sand,stones	I/A N/A No No	
NA 18 School	Musyani	Wawaitwika	360 A	borehole		good sufficier	nt No Answe			. 1	1 India Mark II Irish Aid 2003	3 yes	yes yes	no no	no	no no	yes	yes	no no	no	no construction of school	school committee V-WASHE/Water	no	N/A	sand,stones	Answer Ans	
NA 19 Shemu RHC	Mpande	Kafwimbi	108 E	dug well	scoop hole,	bad seasona	al 5	4	3 GRZ			no	no yes	yes yes	s no	no no	no	no	no no	no	no .	Committee	no	N/A	sand,stones	500 N/A	N/A
NA 20 Kalanda	Ilonda	Waitwika	65 A	A stream	pond	bad season	al 60					N/A	N/A N/A I	N/A N/A	A N/A	N/A no	no	no	no no	no	no assisting orphans	nobody	no	N/A	labour,sand,stones	2,000 N/A	N/A
NA 21 Lukumba Village		Waitwika	400 A	dambo		acceptable seasona	al 30					no	yes no	yes no	no	no no	no	no y	es no	no	no .	nobody	no	N/A	labour,sand,stones	2,500 N/A	N/A
NA 22 Ilenga Village	Mpande	Kafwimbi	105 E	3 stream		bad seasona	al 45					no	no yes	no no	no	no no	no	no	no no	no	no .	nobody	no	N/A	labour,sand,stones labour,sand,stones,	2,000 N/A	N/A
NA 23 Mutachi Village	Musele	Mwenempamba	647 E	dug well		good seasona	al 10	1	1 DWA			yes	no no y	yes yes	s no	no no	no	no	no no	no	no .	the villagers	no	N/A		N/A	2,000
NA 24 Kazembe Village	Mpande	Kafwimbi	425 E	3 stream	scoop hole	bad seasona	al 20					N/A	N/A N/A I	N/A N/A	N/A	N/A no	no	no	no no	no	no .	nobody	no	N/A	labour,sand,stones	N/A	2,000
NA 25 Lyuchi Village	llonda	Waitwika	465 A	dug well		good season	al 3	19	19 .			yes	yes no	yes no	no	n organ no	no	no	no no	no	no .	owners of wells	no	N/A	labour,sand,stones	500 N/A	N/A
NA 26 Musanka Village	Popomozi	Waitwika	100 A	dug well		good season	al No Answe	1	1 Ireland Aid	1997		yes	no no	no no	no	no no	no	yes	no no	no	no .	the villagers	no	N/A	labour	5,000 N/A	N/A
NA 27 Chitambi Village	Musele	Kafwimbi	300 A	dug well	dambo	bad seasona	al 30	2	2 Ireland Aid			yes	yes yes	yes yes	s no	no no	no	no	no no	no	no educational assistance	the villagers	no	N/A in the	labour,sand,stones	500 N/A	N/A
Musesengoma NA 28 Village	Musyani	Waitwika	107 A	dug well		good sufficier	nt 10	1	1 Ireland Aid	2001		yes	yes yes	yes yes	s no	no no	no	yes	no no	no	no .	the villagers V-WASHE/Water	500	village	sand,stones	5,000 N/A	N/A
NA 29 Mwanga Village	Mulalo	Waitwika	431 A	A stream		good not suff	ici 30			. 1	0 Cylinder Bucket D-WASHE .	yes	yes yes	no yes	s no	no no	no	yes	no no	no	no .	Committee	no	N/A	labour	2,000 N/A	N/A
NA 30 Izuwa Village (B)	Mulalo	Waitwika	700 A	scoop hole	dug well	bad seasona	al 30	1	1 Ireland Aid community	1999		yes	yes yes	yes yes	s yes	no no	no	no y	es no	no	no .	the villagers	no	N/A	sand,stones,cash	I/A N/A	2,000
NA 31 Chinsambwe Village	Musele	Chinsambwe	170 A	A scoop hole	dug well dug well,	bad season	al 30	5	5 themselves			no	no yes	no no	no	no no	no	no	no no	no	no .	the villagers	no	N/A	labour,sand,stones	1,000 N/A	N/A
NA 32 Nkasichila Village	Musyani	Waitwika	1,876 A	A scoop hole	borehole	good season	al 20	4	4 themselves	. 1	1 . Irish Aid 1996 Chinese, Irish	6 no	yes yes	yes no	no	no yes	no	no y	es no	no	no assisting orphans	nobody	no	N/A	sand,stones,cement	1,000 N/A No No	
NA 33 Chozi	Mulalo	Waitwika	950 A	borehole		acceptable season	al 2			. 2	2 India Mark II Aid 200° DWA, Irish	1 yes	yes yes	yes no	yes	no no	no	yes	no no	no	no . hospital, paying patients	health staff	no	N/A	cash A labour,sand,stones,		wer Answer
NA 34 Muli Village	Isunda	Waitwika	560 A	Astream	scoop hole	acceptable seasona	al 10			. 1	0 Cylinder Bucket Aid . D-WASHE,	no	yes no	yes no	no	n organ no	no	no y	es no	yes	/es fees	the villagers	no	N/A		N/A	3,000
NA 35 Chapanya School	Chiwanza	Waitwika	300 A	Spring	stream	bad seasona	al 20			. 1	0 Cylinder Bucket Irish Aid .	no	no yes	yes no	no	no no	no	no	no no	no	no .	teachers	no	N/A	labour,sand Nabour,sand,mouldin	N/A	10,000
NA 36 Mwanga School	Mulalo	Waitwika	219 A	Spring		bad seasona	al 10	1	0 D-WASHE	1999		yes	no yes	yes yes	s no	no no	no	no	es no	no	no assisting orphans	school children	no	N/A		N/A	1,000

Village Inve	entory Da	ta																				
District Site No.	Ward	Chief Area	Target Population Accessibility	Second Se	Type of Existing Water Sources		Perceptions of Existing Main Water Soruce	ime N	Ooudition of No. of	Existing Hand Dug Wells		Condition of the Existing Borehole Water Supply Facilities	Existing Community— Based Organisation		External Support by	the Local Administrations or NGOs		Operation and Maintenance Activities Of Existing Main Water Source	ses which the Community sers can Contribute for itruction of New Water Facilities	Affordable Amount for	(selected the preferable mode of payment by the	respondent)
				S	Source for Available Drinking Water	Quality of Water		en to h	Hand Dug Dug Wells in		When constructed?	No. of Boreholes in Use Type of Pumping Devise Who constructed? When ted?	Developm Cooper ative PTA Health V- Commomitte ittee HE	Health ers Educait n	tion of ion of Skill			Responsible Actor ce Fund (K/HH/m Fund	ace To E G		K/perso K n/month	
MB 1 Chiyanga School	Motomoto	Zombe	415 A	A stre	Sources	bad	sufficient	60	Vells Use				no no yes no no no r		no no no no	no	no assisting orphans	the villagers no N/A	labour,sand,stones	N/A	N/A	5,000
MB 2 Njelesani Village	Intala	Zombe	800 A	A stre	eam	bad (mudd	seasonal	20 .					yes no yes yes yes no r	o no	no no no no	no	no .	the villagers no N/A	labour,sand,stones	1,000 1	I/A N	N/A
MB 3 Mulunda Village	Intala	Tafuna	202 A			acceptable	sufficient	45	1 1	Ireland Aid	1998		yes no yes yes no no r	o no	no no no no	no	no .	Health Committee no N/A	labour,sand	1,000 [N/A
MB 4 Zombe School	Intala	Zombe	324 A			good	sufficient	15		Ireland Aid	1991			o no	no no no no		no .	the villagers no N/A V-WASHE/Water	labour,sand,stones	1,000 1		N/A
MB 5 Chupa Village MB 6 Musipazi School	Intala	Tafuna Tafuna	210 A 168 A			bad acceptable	seasonal	15	2 0	World Bank	1985		no no ves ves no no r		no no no no		no .	Committee no N/A the villagers no N/A	labour,sand,stones	2,000		N/A N/A
MB 7 Musipazi Village	Intala	Tafuna	400 A			·	sufficient	40 .					no no yes yes no no r				no .	the headman no N/A	labour,stones	500		N/A
MB 8 Mpunga Village	Intala	Zombe	894 A			bad	seasonal	15 .					yes no yes yes no no r	o no	no no no no	no	no .	health staff no N/A	labour,sand,stones	N/A I	N/A	5,000
MB 9 Masamba Village	Nsunzu	Mpande	345 A	stre		bad	seasonal	15	2 0	Ireland Aid			yes no no no no no r	o no	no no yes no	no	provision of household no material	the villagers no N/A	labour,sand,stones	N/A	N/A	5,000
MB 10 Musekelele Village	Nzunzu	Mwambe	192 A	A sco	dambo, borehole	bad	seasonal	60 .		. community		1 1 India Mark II Irish Aid 2003	B no yes no no no no n	o no	no no no no	no	no .	nobody no N/A	labour,sand,stones, moulding bricks	1,000 1	1/A N	N/A
MB 11 Lukwesa Village	Mwenda	Tafuna	304 A	A dug	g well	good	sufficient	30	4 1	themselves	1983		no no yes no no no n	o no	no no yes no	no	no .	owners of wells no N/A	labour,sand,stones	5,000 No		N/A No
MB 12 Mulowezi Village	Chela	Nondo	355 A			bad (mudd	sufficient	10	1 1	themselves	2002		no no no yes no no r	o no	no no yes no	no	no .	the villagers no N/A	labour,in kind labour,sand,stones,	Answer	Answer A	ınswer
MB 13 Kaziwe School	Chiyanga	Tafuna	108 B			good	seasonal	30 .					N/A N/A N/A N/A N/A N/A N		no no no no		no .	the villagers no N/A the villagers, school	cash	1,000		N/A
MB 14 Rueben School	Mwiluzi	Nondo	280 A 175 C		,		e sufficient e seasonal	15 .					no no yes yes no no or		no no no no		no .	children no N/A	labour,sand,stones		N/A N/A	2,000
MB 15 Mwenyi School MB 16 Songolo Village	Chela	Nondo			stream, dug		sufficient	40	8 7	community themselves				o no	no no no no no		no .	the villagers no N/A the villagers no N/A	labour,cash in kind			2,000
MB 17 Nakaponda Village	Circia	Nondo	135 A			acceptable		5 .						o no	no no no no		no .	the villagers no N/A	labour,sand,stones, clearing sites		N/A	5,000
	Chela	Nondo	250 B			acceptable	e seasonal	30 .					yes no yes no no no r	o no	no no no no	no	no .	the villagers no N/A	labour,sand,stones, cash	1,000 [N/A N	N/A
MB 19 Kaponda Village	Chela	Nondo	112 A	A spri	ring	good	sufficient	10 .					N/A N/A N/A N/A N/A N/A N	/A no	no no yes no	no	assisting orphans, no industrial support	the villagers no N/A	labour,sand,stones	2,000	√A N	N/A
MB 20 Village Mwambezi Kawama	Motomoto	Tafuna	665 A	stre	eam	bad	sufficient	30 .		. community			yes no no no no no n	o no	no no no no	no	no .	nobody no N/A	labour,sand,stones	1,000	N/A N	N/A
MB 21 Village	Mwambezi	Tafuna	376 A	bore	rehole dug well	good	sufficient	5	1 1	themselves	1993	1 1 India Mark II D-WASHE 2003	3 yes no no yes no no r	o no	no no no no	no	no .	Health Committee no N/A V-WASHE/Water	labour,sand,stones	1,000 1	1/A N	N/A
MB 22 Chinenke Village Kedricks Katipa	Mwenda	Tafuna	700 A	stre	eam	acceptable	sufficient	5 .					yes no no no no no n	o no	no no no no	no	no .	Committee no N/A	moulding bricks	N/A I	N/A	3,000
MB 23 Village	Mwambezi	Tafuna	250 A				seasonal	45 .						o no	no no no no		no .	nobody no N/A V-WASHE/Water	labour,sand,stones		N/A	5,000
MB 24 Namukale Village MB 25 Kamyanga Village	Intala	Zombe	436 B 600 A			good	sufficient	10 .						o no	no no no no		no .	Committee no N/A the villagers no N/A	labour,sand,stones labour,sand,stones,	1,000 1		N/A N/A
MB 26 Chimula Village	Lapisha	Nsokolo	900 A				seasonal No	Answe.				1 0. World Bank 1960		o no o no	no no no no		no .	the villagers no N/A the villagers no N/A	labour,sand,stones	200 1		N/A
MB 27 Chimula School	Lapisha	Nsokolo	224 A				e seasonal	30 .					yes no yes no no no no				10 .	the villagers no N/A	labour	N/A	500 N	
MB 28 Vimbuli Village	Lapisha	Nsokolo	720 A	A stre		acceptable	seasonal	60 .				1 0 Cylinder bucket Council .	yes yes yes no no r	o no	no no yes no	no	no assisting orphans	nobody no N/A	labour,sand,stones	500	V/A N	N/A
MB 29 Mambwe School	Lapisha	Nsokolo	603 A	A pub	dug well. blic tap Borehole	acceptable	sufficient	20	3 2	D-WASHE		1 1	yes no yes no no yes r	o no	no no no no	no	no assisting orphans	the villagers no N/A	labour,sand,stones	N/A I	N/A	10,000
MB 30 Nshindano School John Chivuta	Malamba	Mpande	150 B	3 sco	pop hole	acceptable	seasonal	30 .					yes no yes yes no no r	o no	no no no no	no	no .	the villagers no N/A teachers, school	labour,sand,stones	1,000 1	1/A N	N/A
	Chinyika	Mpande	176 B	3 stre	eam	acceptable	seasonal No	Answe.					yes no yes no yes no r	o no	no no no no	no	educational assistance	children no N/A V-WASHE/Water	labour,sand	2,000	I/A N	N/A
MB 32 Mwila Village	Motomoto	Mfwambo	400 A				sufficient	5		Ireland Aid	1998		yes yes no no no yes r					Committee no N/A	labour,sand,stones	1,000 1		N/A
MB 33 Kalekwa Village MB 34 Elon Village	Intala	Tafuna	1,160 B				seasonal	30		Ireland Aid community	1999			o no	no no no no		no .	nobody no N/A	labour,sand,stones sand,stones	N/A 1		5,000
MB 35 Lobo Village	Kawimbe Kawimbe	Mwamba Mwamba	238 A 210 A			bad	seasonal seasonal	10	5 5	themselves			no yes no	o no gan no	no no no no		no .	the villagers no N/A the villagers no N/A	labour,sand,stones	No I		N/A No Answer
David Chikoti MB 36 Village	Iwandi	Nsokolo	400 A			good	sufficient	20	6 6	community themselves		1 0 Cylinder Bucket Irish Aid 1992		o no			no construction of school	the villagers no N/A	labour, construction materials	500		N/A
MB 37 Mfwambo School	Intala	Mfwambo	256 B	3 spri	ring	bad (mudd	dysufficient	15 .					yes no yes yes yes no n	o no	no no no no	no	no educational assistance	the villagers no N/A	in kind	1,000 1	N/A N	N/A
MB 38 Mwamba School	Kawimbe	Mwamba	302 A	dug	g well	bad	seasonal	20	1 1	World Bank	1985		N/A N/A N/A N/A N/A N/A N	/A no	yes no no no	no	no assisting orphans	nobody no N/A	labour,sand,stones,i		N/A	11,000
MB 39 Moses School	Moses	Chela	285 A	A dug	g well stream	acceptable	sufficient	30	4 3				no no yes no yes no n	o no	no no no no	no	no .	teachers, school children no N/A	proving security service sand,moulding	N/A I	N/A	5,000
MB 40 Moses Village	Chela	Nondo	2,400 A	A stre	eam	acceptable	sufficient	5.					yes yes yes yes no r	o no	no no no no	no	no .	the villagers no N/A	bricks	N/A I	N/A	500
MB 41 Sume Village	Chela	Nondo	402 A			bad	seasonal	10 .					N/A N/A N/A N/A N/A N				no .	the villagers no N/A V-WASHE/Water	labour, cash	500		N/A
MB 42 Kalala Village	Motomoto	Tafuna	400 A			bad	seasonal	7 .						o no	no no no no		no assisting orphans	Committee no N/A V-WASHE/Water	labour,sand,stones			2,500
MB 43 Isanya Village	Motomoto	Tafuna	2,200 A			good	sufficient	5 .				2 2 India Mark II Irish Aid 2002					no .	Committee no N/A	labour,sand,stones	1,000 1		N/A
MB 44 Kanyika Village MB 45 Makala Village	Nsunzu Intala	Mpande Zombe	324 A 431 A			bad (mudd	seasonal	15						o no o no	no yes no		no construction of school	nobody no N/A nobody no N/A	labour sand,stones	1,000		N/A N/A
MB 46 Kati Village	Mbulu	Tafuna	630 A				sufficient	30 .					no no yes yes no r				10 .	the villagers no N/A	labour,sand,stones	1,000		N/A
MB 47 Londe Village	Chela	Tafuna	300 A	A dug	g well borehole	bad (mudd	sufficient	30	2 2	Ireland Aid	1998	1 1 Cylinder Bucket World Bank 1992	yes yes yes yes no r	o no	no no no no	no	no assisting orphans	appointed of wells no N/A	labour		No N Answer A	io Answer
MB 48 Kakonde Village	Nsunzu	Nsokolo	500 A	spri	ring dug well,	acceptable	sufficient	20 .					yes no no yes no no n	o no	no no no no	no	no .	the villagers no N/A	sand,stones,mouldir g bricks labour,sand,stones,		N/A	5,000
	Lapisha	Nsokolo	700 A		eam spring	acceptable	sufficient	50	1 0	Ireland Aid	1993			o no	no no no no		no .	the villagers no N/A	moulding bricks			2,000
	Chela Chozi	Nondo Nsokolo	315 A 340 A				seasonal seasonal	20 . 30 .	<u> </u>	-			N/A N/A N/A N/A N/A N/A N				no .	the villagers no N/A the villagers no N/A	labour,sand,stones			5,000 1,000
MB 51 Mindolo Village MB 52 Kavumbo School	Chimbili	Nsokolo	564 A			bad	seasonal	60 .						o no o no	no no no no		no construction of school	the villagers no N/A the villagers no N/A	labour,stones	2,000 I		1,000 N/A
MB 53 Chileshya School		Nsokolo	306 A			bad	seasonal	15	1 0	World Bank	1980			o no			no educational assistance	V-WASHE/Water Committee no N/A	labour,sand,stones, moulding bricks	No I	No N Answer A	No

Village Inv	entory Da	ta																									
District Site No.	Ward	Chief Area	Target Population	Accessibility	Type of Existing Water Sources On the	Perceptions of Existing Main Water Soruce	Time	No. of No. o	Condition of the Existing Hand Dug Wells		Condition of the Existing Borehole Water Supply Facilities	Village	Existing Community—Based Organisation	I IM	lator		Construc	Experiences of External Support by	the Local Administrations or NGOs			Operation and	Maintenand Of Existing Roam of Existing	es which the Community ers can Contribute for truction of New Water Facilities	Affordable Amount for	Maintenance Fund (selected the preferable mode of	respondent)
					Maing Water Source for Drinking Maing Water Available Water Water Sources Water		y taken to	Hand Hand [Oug Who in constructed	When constructed?	No. of Boreholes in Use Type of Pumping Devise Who constructed? When constructed?	Developm	Cooper ative PTA Heal	h V- V m WAS HE	Others Ed	Health Co ducaito cti n La	on of Water	ion of Skill Food/S Trainir			Others	Responsible Actor	ce Fund Mainter (K/HH/m Fund onth) Kep	ace in E ii		K/perso n/month	
ML 1 Kamba	Katwe	Chitimbwa	170	В	borehole acceptable	ole sufficient	t 20	1	0 D-WASHE	2001	1 1 Cylinder Bucket D-WASHE 2001	yes	no yes yes	no	yes no	no	no no	no no	no	no		V-WASHE/Water Committee	no N/A	labour,sand,stones	1,000	N/A	N/A
ML 2 Kambole	Katwe	Chitimbwa	150	В	stream acceptabl	ole seasona	10					no	no yes no	no	no no	no	no no	no no	no	no		the villagers	no N/A	labour,sand,stones	N/A	N/A	5,000
ML 3 Kakolo	Katwe	Chitimbwa	357	A	spring bad	sufficient	t 20					N/A	N/A N/A N/A	N/A	N/A N/A	no	no no	yes no	no	no		nobody	no N/A	sand	1,000	N/A	N/A
ML 4 Lemba 1	Chitimbwa	Chitimbwa	200	A s	scoop hole bad	seasonal	ıl 15					N/A	N/A N/A N/A	N/A	N/A N/A	no	no no	no no	no	no		nobody	no N/A	clearing the sites	1,000	N/A	N/A
ML 5 Mutemfuma		Chitimbwa	270	A s	stream acceptabl	ole sufficient	t 20	2	1.	1996		no	no yes yes	no :	yes no	yes	no yes	no no	no	no		the villagers	no N/A	labour,sand,stones	N/A	N/A	10,000
ML 6 Chitimbwa RHC	Katwe	Chitimbwa	1,380	A s	stream good	sufficient	t 10					yes	no yes yes	no	yes no	no	no no	yes no	no	no		nobody	no N/A	sand,stones,cash	500	N/A	N/A
ML 7 Kasita	Katwe	Chitimbwa	630	A	stream acceptabl	ole seasonal	30		-			yes	yes no no	no	no no	no	no no	yes no	no	no		nobody	no N/A	labour,sand,stones	N/A	N/A	20,000
ML 8 Chikonde		Chitimbwa			·	ole sufficient	t 35					yes	no no yes	no	no no	no	no no	no no	no	no	. rehabilitation of school	the villagers	no N/A	labour,sand,stones			N/A
ML 9 Kasusu	Chisha	Chinakila			stream bad	sufficient		1	0 Ireland Aid	1992	1 0 Cylinder Bucket Irish Aid 1996	yes	no yes no	no			yes no	no no		no	infrastructure	school children	no N/A	sand, stones	1,000		N/A
ML 10 Ntema	Isunga	Chinakila				ddyseasona						yes	no yes no				no no	no no		no		nobody	no N/A	labour,sand,stones			N/A
ML 11 Shimwalota	Isunga	Chinakila			,	ddysufficient		1	0 GRZ	1960		yes	no no no	no			no no	no no		no		nobody	no N/A	sand,stones	2,000		N/A
ML 12 Kabamba	Isunga	Chinakila			stream good	sufficient			community	-		yes	no yes yes	,			no no	no no			construction of school	the villagers	no N/A	labour,cash	1,000		N/A
ML 13 Kopeka	Isunga	Chinakila			stream good		No Answe	. 2	2 themselves community		· · · · · · · ·	yes	no yes no	,			no no	no no			educational assistance	nobody	no N/A	labour,sand,stones	2,500		N/A
ML 14 Simoche	Chibulula	Tafuna	531			seasona		4	4 themselves community			yes	no no yes				no no	no no		no		nobody	no N/A	moulding bricks		N/A	5,000
ML 15 Jecap ML 16 Kasasi	Vyamba	Chinakila			stream dug well bad dug well stream bad	seasona		0	4 themselves community 1 themselves			yes	yes yes yes				no no	no no		no	•	nobody	no N/A in the 400 village	labour,sand,stones		N/A N/A	5,000
ML 17 Chilwa	Vyamba	Chinakila	2,400			seasona		2	Titlemseives	1995		no yes	yes no no	yes			no no	no no		no		the villagers nobody	no N/A	labour,sand,stones		N/A	1,000
ML 18 Chaulu (School)	Vyamba	Chitimbwa				ole sufficient			-			yes		no			no no	no no		no		the villagers	no N/A	labour			N/A
ML 19 Mengo (School)	Chisha	Chinakila			stream bad	sufficient						no		no			no no	no no		no		nobody	no N/A	sand,stones	500		N/A
ML 20 Muswilo (School)	Isoko	Tafuna			stream bad	sufficient						no	no yes yes				no no	no no			educational assistance	nobody	no N/A	labour,construciton materials,cash	500		N/A
ML 21 Kalongola	Katwe	Chitimbwa				ole sufficient						yes	no yes no				no no	no no		no		the villagers	no N/A	labour,sand,stones	200		N/A
ML 22 Chibote	Vyamba	Chinakila			stream good	sufficient						yes					no no	no no		no		nobody	no N/A	labour,sand,stones		N/A	5,000
ML 23 Chitinta	Mpulungu	Tafuna			stream bad	sufficient						no	no yes yes				no no	no no		no		nobody	no N/A	labour,sand,stones			N/A
ML 24 Patrick	Kasimango	Tafuna	380	A f	furrow bad	seasona	ıl 5					yes	no yes yes	no	no no	no	no no	no no	no	no		Health Committee	no N/A	labour,sand,stones	500	N/A	N/A
ML 25 Katula	Isoko	Tafuna	192	A s	stream bad (mud	ddysufficient	it 10	1	community 0 themselves	, 1998		no	no no no	yes	no no	no i	no yes	no no	no	no		the villagers	no N/A	labour,sand,stones cash	1,000	N/A	N/A
ML 26 Mukaka	Chisha	Chinakila	150	A s	stream bad	sufficient	t 45					yes	no yes yes	yes	no no	no	no no	no no	no	no	construction of school	nobody	no N/A	labour,sand,stones	2,000	N/A	N/A
ML 27 Mululwe	Chisha	Chinakila	1,000	A	stream good	sufficient	t No Answe					yes	no yes yes	yes	no no	no	no no	no no	no	no		nobody	no N/A	labour,sand,stones	N/A	N/A	5,000
ML 28 Kaizya	Mpulungu	Tafuna	585	C	stream bad (mud	ddysufficient	t 45					yes	no yes no	no	no no	no	no no	yes no	no	no		Health Committee	no N/A	labour,sand,stones	500	N/A	N/A
ML 29 Isoko (School)	Isoko	Tafuna	320	A s	stream bad	sufficient	t 15				1 0 Cylinder Bucket Irish Aid 1998	yes	yes yes yes	yes	no no	no	no no	no no	no		•	nobody	no N/A	poles	5,000	N/A	N/A
ML 30 Makola (School)	Isoko	Tafuna	284	A f	furrow bad	sufficient	it 5					no	yes yes no	yes	no no	no	no yes	no no	no	no	rehabilitation of school infrastructure	the villagers	no N/A	labour,sand,stones	1,500	N/A	N/A
ML 31 Chinakila	Chisha	Chinakila	3,000	A s	stream bad	sufficient	t 25				1 0 Cylinder Bucket Irish Aid 1992	yes	no yes yes	yes	no no	yes	no yes	no no	no		on health and sanitation issues	nobody	no N/A	labour,sand,stones	1,000	N/A	N/A
ML 32 Vyamba	Vyamba	Chinakila	500	C	dug well good	sufficient	it 10	10	7 themselves	-		yes	yes yes yes	yes	no no	yes	no no	no no	no	no	educational assistance	the villagers V-WASHE/Water	no N/A	labour,sand,stones	N/A	N/A	2,000
ML 33 Mulilanondo	Chisha	Chinakila	425	A	dug well bad	sufficient	t 10	1	1 Ireland Aid	1993		no	yes no yes	no	no no	no	no no	no no	no	no	construction of school	Committee Committee	2000 No Ans	wer sand,stones	2,000	N/A	N/A
ML 34 Mungula	Vyamba	Chinakila	6,400	C	stream good	sufficient	No Answe					yes	yes yes yes	yes	no no	no	no no	no no	no	no	agriculture	nobody	no N/A	labour,sand,stones	N/A	N/A	5,000
ML 35 Kasansala	Chisha	Chinakila	514	A s	stream good	sufficient	t 20					no	no yes no	yes	no no	no	no no	no no	no	no	construction of school	nobody	no N/A	sand,stones	500 No		N/A No
ML 36 Kaunda	Chisha	Chinakila	115	В	stream bad	seasona	al 15					yes	no no no	no	no no	no	no no	no no	no	no	construction of school	nobody	no N/A	labour,sand,stones	Answer		
ML 37 Kasasa		Tafuna	1,200	В	scoop hole acceptable	ole sufficient	t 15					yes	no no no	no	no n organ	no	no no	no no	no	no		appointed of wells	no N/A	moulding bricks labour,sand,stones	500	N/A	N/A
ML 38 Mupata	Mpulungu	Tafuna	6,400	A	stream borehole acceptable	ole sufficient	it 30	1	0 Ireland Aid		1 1 India Mark II Irish Aid 2002	no	no no no	yes	no no	no	no no	no no	no	no		nobody	no N/A	moulding bricks		N/A	N/A
ML 39 Posa	Mpulungu	Tafuna	504	В	stream public tap acceptable	ole sufficient	t 30		-			yes	no no no	no	no no	no i	no no	no no	no	no		the villagers	no N/A	labour,sand,stones	N/A	N/A	5,000
ML 40 Mwanakatwe	Isoko	Tafuna	266	A s	stream bad (mud	dd sufficient	t 15					yes	no no no	yes	no no	no	no no	no no	no	no		the villagers V-WASHE/Water	no N/A	sand, stones, cash	1,000	N/A	N/A
ML 41 Kapoko	Chibulula	Tafuna			spring bad	sufficient	it 10		community			yes	no yes no	no	yes n organ	no	no no	no no	no	no		Committee	no N/A	labour,sand,stones	N/A	N/A	2,000
ML 42 Musende	Mpulungu	Tafuna			public tap borehole bad	sufficient	it 35	1	1 themselves	2000	1 1 India Mark II Irish Aid 2002		no no no	yes			no no	no no			transport	Health Committee V-WASHE/Water	no N/A	labour,sand,stones			N/A
ML 43 Kasakalawe	Chibulula	Tafuna	4,800	В	spring good	seasona	ıl 15].			yes	no yes no	yes	no no	no	no no	no no	no	no	_	Committee	no N/A	labour,sand,stones	N/A	N/A	5,000

Villa	ge Inver	ntory Dat	a																									
District Site No.	Site Name	Ward	Chief Area	arget Population Accessibility		Type of Existing Water Sources		Perceptions of Existing Main Water Soruce	-	N. C. I. N.	Condition of the Existing Hand Dug Wells		Condition of the Existing Borehole Water Supply Facilities)		Existing Community— Based Organisation				Experiences of External Support by	the Local Administrations or NGOs		Operation and	of Existing Main Water Source	ss which the Community ars can Contribute for ruction of New Water Facilities	Affordable Amount for	Maintenance Fund (selected the preferable mode of	payment uy ure respondent)
				F	Sou	ng Water urce for water inking Sources	e Quality of Water	Quantity of Water	taken to	No. of No. of Hand D Dug Wells Use	ug Who n constructed	When constructed?	No. of Boreholes in Use Type of Pumping Devise Who constructed?	ruc Deve	lopm Cooper nt ative PTA	Health V- Comm WAS ittee HE	Com mitte e	Health Co ducaito ct n La	tion of Water Facility	ion of Skill Food/S Trainii			Responsible Actor	Maintenan Where ce Fund (K/HH/m Fund onth) Kept	ace h li		n K/perso n/month	
LU 1 Chanda C	Chipalo N	Namukolo	Chipalo	432 A	dug w	vell	bad	seasonal N	No Answe	10	community themselves community			ye	s no no	no no	no no	no	no no	no no	no no) .	the villagers V-WASHE/Water	no N/A	labour,sand,stones	N/A	N/A	5,000
LU 2 Saili (scho	nool) C	Chulungoma	Chipalo	405 A	furrow	dug well	bad	sufficient	5	10	4 themselves community			y€	es no yes	no yes	yes no	no	no yes	no no	no no) .	Committee	no N/A	labour,stones	N/A	N/A	1,500
LU 3 Paundi	I _I	Ipusukilo	Chipalo	200 A		scoop hole		sufficient	30	5	5 themselves community			y€	s no no	yes no	no no		no no	no no	no no		the villagers	no N/A	labour,sand,stones			N/A
LU 4 Isandulula		Namukolo	Chipalo	900 A		scoop hole	e,	dysufficient	10		10 themselves community			y€			no no		no no	no no			the villagers	no N/A	labour			N/A
LU 5 Kapisha		Namukolo	Chipalo	1,124 A		, and the second	good	sufficient	15	100 1	00 themselves			ye			no no		no no	no no			the villagers	no N/A	sand,stones,cash labour,sand,stones			N/A
LU 6 Mulala So		Kaela Kaela	Katuta Katuta	286 A			bad e accentable	seasonal e sufficient	3U .	-				ye n		yes yes			no no	yes no	no no		the villagers school children	no N/A	moulding bricks sand,stones	5,000 N/A	N/A	N/A 2,000
LU 8 Muchelek		Masonde	Mucheleka	361 A		scoop hole		sufficient	10	7	community 7 themselves			ye	ĺ		no no		no no	no no			the villagers	no N/A	sand,stones		N/A	2,000
LU 9 Mpasa So		Itandashi	Katuta	223 A			bad	seasonal	10 .					ye		yes yes			yes no	yes no			the villagers	no N/A	labour,sand,stones moulding bricks	,	N/A	5,000
	Community	Bwalinde	Chabula		strear	scoop hole		e not sufficie	10 .					ye		yes yes	no no		no no	no no		o fertilizers	the villagers	no N/A	sand		N/A	5,000
LU 11 Katuta Vil	illage N	Munshinga	Katuta	400 A	scoop		bad	seasonal	35	1	0.	1979	1 1 India Mark II D-WASHE 2002	002 ye	es yes yes	yes yes	yes no	no	no yes	no no	no no) .	the villagers	no N/A	sand,stones,mouldi g bricks		N/A	5,000
LU 12 Chifwile S	School C	Chifwile	Shimumba	250 A	spring	scoop hole dug well		e sufficient	30	4	community 4 themselves			n	o no yes	yes yes	no no	no	no no	no no	no no) .	V-WASHE/Water Committee	no N/A	sand,stones	N/A	N/A	2,000
LU 13 Mukanga	a School C	Chifwile	Shimumba	234 B	boreh	nole	good	sufficient 1	No Answe.				1 1 India Mark II DWA 2001	001 n	o yes yes	no no	yes no	no	no no	no no	no no		V-WASHE/Water Committee	no N/A	labour	500	N/A	N/A
LU 14 Misambul	ıla School (Chifwila	Shimumba	188 A	scoop	hole scoop hole		e sufficient	15	1	0 D-WASHE community	2003		ye	es no yes	yes yes	no no	no	no yes	yes no	no no) .	school children	no N/A	labour,sand,stones		N/A	5,000
LU 15 Kandata	School	Mushitu	Shimumba	234 A	spring		bad	sufficient	40	1	1 themselves			y€	es yes yes	yes no	yes no	no	no no	yes no	no no		nobody school children,	no N/A	g bricks	1,000		N/A No
LU 16 Luena Cli	linic L	Luata	Shimumba	200 A	strear	m dug well	bad	sufficient	10	1	1 GRZ community			ye	es no yes	yes no	no no	yes	yes yes	yes no	no no		Council	no N/A	labour,sand,stones		Answer	
LU 17 Mfungwe	School Is	Isansa	Tungati	368 A	dug w	vell scoop hole	e bad (mudo	dyseasonal	30	20	20 themselves community			y€	s yes yes	no no	no no	no	no no	yes no	no no) .	the villagers	no N/A	labour,sand,stones labour,sand,mouldi		N/A	N/A
LU 18 Nsolo Sci	thool I	Isansa	Tungati	106 A			bad	sufficient	30	5	4 themselves community			n	o no yes	yes no	no no	no	no no	no no	no no		the villagers	no N/A	g bricks			N/A
LU 19 Washeni		Mwelawamangi		216 A				e sufficient	40	12	12 themselves			ye	s no yes	yes no	yes no		no no	no yes			the villagers	no N/A	labour,poles	1,000		N/A
LU 20 Chibofwe		M.wampangu	Tungati	455 A				e sufficient	10	5	5 D-WASHE			ye			no no		no no	yes no		home based care	the villagers	no N/A	labour labour,stones,moul	d	N/A	500
LU 21 Kabangal		Kafinsa Kafinsa	Chungu	221 A			bad	not sufficient	30 .		community 6 themselves			ye		yes no	no no		no no	no no			the villagers	no N/A	ing bricks labour,sand,stones	,	N/A N/A	5,000
LU 22 Chakaba LU 23 Malaya V		Kafinsa	Chungu	360 B			good	sufficient	5	5	community 5 themselves			ye ye					no no	no no			the villagers owners of wells	no N/A	moulding bricks	1,000		N/A
LU 24 Mumba V		Kapemba	Chungu	394 A			bad	sufficient	30	1	community	2000	1 0. HIPC 2002				no no		no yes	no no		construction of school	the villagers	no N/A	labour,cash	1.000		N/A
LU 25 Chabula	- J	Bwalinde	Chabula	274 A			bad	seasonal	60 .							no yes			no no		no no		the villagers	no N/A	labour,sand,moulding bricks	n		N/A
LU 26 Mwando	School N	Mwalinde	Chabula	200 A	scoop	o hole	bad	seasonal	10	1	0 council			n	o no yes	yes yes	no no		no no	no no	no no) .	the villagers	no N/A	labour,sand	2,000	N/A	N/A
LU 27 Shindaila	a Village P	Kafinsa	Chungu	275 A	strear	m	bad	sufficient	30 .		-			ye	es no yes	yes yes	no no		no no	yes no	no no) .	nobody	no N/A	sand,stones,mouldi g bricks	in N/A	N/A	5,000
LU 28 Lundu Sc	chool II	lbale	Chanika	520 A	spring	g dug well	bad	seasonal	10	1	1.			n	o no yes	yes no	no no	yes	no no	no yes	no ne	assisting orphans	Health Committee	no N/A	labour,stones,in kin	d 1,000	N/A	N/A
LU 29 Nsombo	Village L	Lupososhi	Chabula	931 A	strear	m dug well	acceptable	e sufficient	30	50	community themselves		1 1 India Mark II DWA .	y€	es no yes	no no	yes no	yes	no no	yes no	no no		the villagers	no N/A	labour,sand,stones		N/A	N/A
LU 30 Mwando	HP E	Bwalinde	Chabula	150 A	scoop	hole	acceptable	e sufficient	25	1	0 D-WASHE community	2003		n	o yes yes	yes yes	no no	yes	no no	yes no	no no) .	the villagers V-WASHE/Water	no N/A	labour,sand,mouldii g bricks	N/A	N/A No	2,000 No
LU 31 Chepeshi	i Village C	Chulungoma	Chipalo	123 A	scoop	hole dug well scoop hole	bad	seasonal	10	4	2 themselves			y€	es no no	no yes	no no	no	no no	no no	no no	v washe representative	Committee	no N/A	labour,sand,stones			
LU 32 Katuta Rh	HC N	Mwanwakubili	Nkulu	360 A	dug w			sufficient	90	1	1 .	1979	1 1 India Mark II D-WASHE 2002	002 n	o yes yes	no yes	no no	no	no no	no no	no no		nobody	no N/A	labour,sand,stones		N/A	5,000
LU 33 Bulambo		Isansa	Tungati	211 A			acceptable	e not sufficie	40 .	-				y€	es no yes	yes yes	no no	no	no no	no no	no no) .	Health Committee	no N/A	moulding bricks labour,sand,stones	N/A	N/A	1,000
LU 34 Chambo		Kaela	Katuta	226 B			bad	seasonal	30 .	-	community					yes no			no yes		no ye		the villagers	no N/A	moulding bricks labour,sand,stones	,i	N/A	5,000
LU 35 Ndalama		Kafinsa	Chungu	280 B			good	sufficient	5	3	3 themselves community					N/A N/A			no no	no no		agriculture	the villagers	no N/A	n kind			N/A
LU 36 Malekani		Manarda	Shimumbi	236 B			e acceptable		20	4	4 themselves		1 0 Cylinder Bucket DWA 1980			no no			no no	no no			the villagers	no N/A	labour			N/A
LU 37 Chimpam		Masonda	Chipalo	231 A				e sufficient	10	2	0 council	1998		ye		yes no			no no	no no		educational assistance	school children	no N/A	labour,sand,stones		N/A	5,000
LU 38 Tolopa Vi		Namukolo Mwenemwanan	Chipalo	360 A		o hole dug well	bad	seasonal e sufficient	5.	4	community 1 themselves					no no yes no			no no	yes no	no no		health staff the villagers	no N/A	labour,sand,stones		N/A N/A	N/A 1,000
LU 40 Kabombo		llambo	Chungu	191 A				e sufficient	15	1	community 1 themselves			n	ĺ	yes no			no no	no no			nobody	no N/A	labour,sand,stones moulding bricks	,		N/A
LU 41 Kaputu V		Kafinsa	Chungu	350 A			bad	not sufficie	40 .							yes no			no no		no no		nobody	no N/A	labour,sand,stones moulding bricks	,	N/A	5,000
LU 42 Kapoma		Mufili	Chungu	240 A		dug well,	good	sufficient	20	1	community 1 themselves	2000		ye			no no		no no	no no			nobody	no N/A	labour,sand,stones	No		No
LU 43 Lwenge S	- J	Kampemba	Chungu	336 A			bad	seasonal	10 .						s no no				no no	yes no		home based care	school committee	no N/A	sand,stones	No		No
LU 44 Sande Vil		Kampemba	Chungu	731 A				dyseasonal N	No Answe	17	community 17 themselves			n		yes yes			no no	no no		construction of school	the villagers	no N/A	labour,sand,stones		N/A	5,000

Ap 5-3 Questionnaires Used for Socio-Economic Survey

- (1) Village Inventory Survey
- (2) Sample Household Survey

Groundwater Development and Sanitation Improvement Project in the Northern Province of Zambia

		/illage Survey Sl	neet			
Ref. I	No	Da	te of Survey	/	/ 2003	
Name	e of Interviewer					
Name	e of Key Informant]	Number of Pe	ople Gather	ed M F	
	A. G	ENERAL INFOR	MATION			
A-1.	District					
A-2.	Village Name					
A-3.	Name of Village Head					
A-4.	Specific Name of the Site (if any)					
A-5.	Area Name					
A-6.	Ward					
A-7.	Chief					
A-8.	Co-ordinates.	Lat. S		Long	. E	
A-9.	Composition of Settlement	Grouped	Scattered	Widely	Scattered (km)
B-1.	Accessibility by drilling rigs		le in all seaso		cessible only in dry	season
		Not acce				
B-2.	Type of Approach Road	Tarmac	Gravel		***************************************	
B-3.	Need to cross:	Dambo	Stream	River	Rocky areas	Hills
B-4.	Is bush clearing required to approte the site with a drilling rig?	oach Yes	No			
		C. POPULATIO	N DETAILS			
C-1.	Population of the Village		Ratio:	Male	_% Female	%
C-2.	Number of Households	Total			HH Members	
C-3.	No. of Female-Headed Household	<u></u>	_	C		
C-4.	No. of Child-Headed Household		=			
	D 00 0744					
	D. SOCIAI	L INFRASRUCTU	RE IN THE	VILLAGE		
Q.	What kind of public facilities are	there in the village	e?			
D-1.	Health Facility Rura	al Health Centre	Health Po	ost C	Others ()
D-2.	School Basi	ic School	No	o. of Pupils _		
	· · · · · · · · · · · · · · · · · · ·	h School		o. of Pupils		
	Com	munity School	N	o. of Pupils		

Market

Church

Others (

Other Public Facilities

D-3.

Cooperative

Depot

Administrative Office

F-9

What is the reason for out of use of

hand dug wells or boreholes, if any?

E. ECONOMIC ACTIVITIES

	<u>11. 11</u>	CONOMIC ACTIVITIES
E-1.	What is the main income source for community members in the village? (multiple answer)	Agriculture Fishing Cattle Rearing Others ()
E-2.	What are the major crops of agriculture? (multiple answer)	Maize Sorghum Beans Groundnuts Finger Millet Cassava Others ()
E-3.	What kind of livestock is reared in the village? (multiple answer)	Cattle Goats Chickens Donkeys Pigs
	F. EXI	ISTING WATER SOURCES
F-1.	Which water source do community members mainly use for drinking water?	Scoop hole Stream Pond Dambo Dug Well Borehole Spring Dam Others ()
F-2	Which water source do community members mainly use for washing?	Scoop hole Stream Pond Dambo Dug Well Borehole Spring Dam Others ()
F-3.	How is the quality of water from the source selected in F1?	Good Acceptable Bad Salty Muddy
F-4.	How is quantity of water?	Sufficient Seasonal available month () Not sufficient
F-5.	How far is the water source from the village?	km
F-6.	What kinds of facility are equipped to the source for drinking water selected in F1?	Nothing Lid to cover a mouth of water source Rope/ Chain Lined with concrete/ bricks/ wood Bucket Windlass Parapet Apron Drainage Soak-away Handpump Wind mill Submersible Pump Others ()
F-7.	If the community has hand dug well(s) in the village,	Number of facility in total Number of facility in use Which organization assisted construction? When was it constructed?
F-8.	If the community has borehole in the village,	Number of facility in total Number of facility in use Type of handpump, if any

Others (_

Which organization assisted construction?

Pumping devise is not working.

Quality of water is not sufficient.

Water is not available from the source.

The facility is located too far from the village.

When was it constructed?

G. STATUS OF HEALTH AND HYGIENE

G-1.	What are the major diseases among community members in the village?	Malaria Typhoid Others (Dysentery Eye disease	Diarrhea Skin disease)
G-2.	Which type of sanitation facility is used mostly in the village?	Traditional Improved p VIP latrine Nothing	oit latrine with conc	rete slab	
G-3.	Is there trained masonry for latrine construction in the village?	Yes	No		

H. COMMUNITY ACTIVITIES

H-1.	Has any attempt been made by the community to improve their living condition in anyway?	Yes No
H-2.	If Yes to H-1, what kind of activities was	Construction of school/ health post
	implemented?	Construction/ rehabilitation of road/ bridge
		Construction/ rehabilitation of water facility
		Others ()
H-3.	If Yes to H-1, what kind of resources did	Labour
	the community members contribute to	Materials (Specify)
	implement and maintain the activities?	Cash (K per household/ person)
		Others ()
H-4.	What are common issues for the	Education Health Sanitation Water
	community to improve their living	Agriculture Transport
	condition? (specify the order of priority)	Others ()
H-5.	Is there community-based organization in the village?	Yes No
H-6.	If Yes to H-5, what type of organization is	Village Development Committee
	it? (multiple answer)	Cooperative PTA Health Committee
		V-WASHE Water Committee
H-7.	How is the status of participation of	More than 50% of members
	women in the community-based	Less than 50% of members
	organization?	Unknown
H-8.	Is there any support from local administrations or NGO?	Yes No
H-9.	If Yes to H-8, what kind of activities are	Health education Construction of latrine
	implemented by the external organization?	Construction of water facilities
		Distribution of food/ seeds Skill training
		Literacy class Micro credit
		Others ()

I. OPERATION & MAINTENANCE OF WATER FACILITIES

I-1.	Who is responsible for maintaining the existing source of drinking water?	V-WASHE / Water Committee Health Committee Others () Nobody
I-2.	Is the maintenance fund collected from the users?	Nobody Yes (K/month/ household or person) No
I-3.	If Yes to I-2, how much have been raised so far for the maintenance fund?	K
I-4.	If Yes to I-2, how is the fund kept?	In bank account In the village Others ()
I-5.	Do you think the community can manage and maintain the handpump water supply facility if constructed?	Yes No (Reason:)
I-6.	Who do you think should be responsible for maintenance of water facility if it is properly constructed in your village?	Government (District Council) NGO Village members Others ()
I-7.	Do you think the community can participate in construction works of water facility?	Yes No (Reason:)
I-8.	How can community members keep the water facility in order? (multiple answer)	By forming a committee such as water committee By repairing the facility with maintenance tools, if available. By hiring skilled person from outside village for repair of the facility. By raising fund for maintenance from users. By cleaning the surrounding of the water point. Others (
I-9.	What kind of resources can community contribute for improvement of water and sanitation in the village?	Labour Material (Specify) Cash (K/ household or person) Others ()
I-10	What would you consider affordable amount to pay for maintenance of water K facility?	/ month or year / household or person
I-11	Is the area mechanic or pump minder available in the village or area if the water facility breaks down?	Yes No Unknown
I-12	Do you have to pay remuneration to the area mechanic or pump minder when you ask for repair of the facility?	Yes K No Unknown

Interview No. _____ Date of Survey / / 2003

Questionnaire for Sample Household Survey

Name of Interviewer _____

	Name of District	Name of Village
	Site No	
	A. Personal Information	
A-1.	Name of Respondent	
A-2.	Sex of Respondent	[1] Male [2] Female
A-3.	Age of Respondent	years
A-4.	Relationship of Respondent to the Household Head	
A-5.	Sex of Household Head	[1] Male [2] Female
A-6.	Age of Household Head	years
A-7	Marital Status of Household Head	[1] Married (monogamous) [2] Married (polygamous) [3] Single/ never married [4] Widow/Widower [5] Divorced [6] Separated
A-8.	Number of Members in the Household	[1] Adult men [2] Adult women [3] Children (Boy) [4] Children (Girl)
A-9.	No. of Children sent to School among the ones indicated in A-8	[1] Boy [2] Girl
	B. Existing Water Source for the House	sehold
B-1.	Do you have access to safe water source for drinking?	[1] Yes [2] No
B-2.	Which water source does your household use for drinking water?	[1] Scoop hole [2] Stream [3] Pond [4] Dambo [5] Dug well [6] Borehole [7] Spring [8] Dam [9] Others (Specify)
B-3.	Is the water source selected in B-2 property of your household?	[1] Yes [2] No
B-4.	What kinds of facility are equipped to the water source selected in B-2? (multiple answer)	[1] Nothing [2] Lid to cover a mouth of water source [3] Rope/ Chain [4] Lined with concrete/ bricks/ wood [5] Bucket [6] Windlass [7] Parapet [8] Apron [9] Drainage [10] Soak-away [11] Handpump [12] Wind mill [13] Submersible pump [14] Others (Specify)
B-5.	How is the quality of water from the source selected in B-2?	[1] Good [2] Acceptable [3] Bad
B-6.	If the answer to B-5 is [3] Bad, why do you think so?	[1] Water is salty. [2] Water is muddy. [3] Water is rusty. [4] Others ()

Sample Household Survey

B-7.	How is quantity of water from the	[1] Su	fficien	ıt throu	ighout	a yea	r		[2]	Seaso	nal			
	source selected in B-2?	[3] No	ot suffi	cient t	hrougl	hout a	year							
B-8.	If the answer to B-7 is [2] Seasonal,	J	F	M	A	M	J	J	A	S	0	N	D	
	which month is the water available?													
B-9.	If the answer to B-7 is [2] Seasonal, how do you get drinking water during													
	the period apart from the month(s) indicated in B-8?													
B-10	How long does it take to reach to the	[1] les	s than	15 mi	nutes	[2] 15-3	0 min	utes					
	water source from your house?	[3] 30	-60 mi	inutes		[4] mor	e than	60 mi	nutes				
B-11.	How long do you have to queue up before you get your turn to fetch	[1] les	s than	15 mi	nutes	[2] 15-3	0 min	utes					
	water?	[3] 30	-60 mi	inutes		[4] mor	e than	60 mii	nutes				
B-12.	How often does your household fetch	[1] on	ce a da	ay	I	[2] twi	ce a d	ay		[3] 3	times	a day		
	water in a day from the water source?	[4] Ot	hers (s	specify				_)						
B-13.	What kind of vessel does your	[1] Co	ontaine	er with	a lid				ner wit					
	household use to fetch and carry water?			vith a l	id				withou					
		[5] Wa	ash ba	sin			[6] (Others	()	
B-14.	How much water does your			conta	iners/	bucke	ts							
	household use per day on average?				***************************************									
B-15.	Is the quantity of water enough for	[1] Ye	S	[2]	No									
	drinking and cooking purposes?				***************************************					***************************************			***************************************	
B-16.	Who usually collect water in your household? (multiple answer)	[1] Ad				[2] Ad				[3]	Boy o	hild		
	nousenoid: (multiple answer)	[4] Gi				[5] Wa						,		
		[6] Ot	hers (S	Specify	/)		
B-17.	Do you use separate water source for washing and gardening from the one	[1] Ye	s	[2	2] No									
	for drinking water?													
B-18.	If yes to B-17, which water source do	[1] Sc	oop ho	ole [2	2] Stre	am	[3] Poi	nd [4	l] Dan	nbo [[5] Du	g well		
	you use for washing and gardening?	[6] Bo		_] Sprir	•	[8] Da							
		[9] Ot	hers (S	Specify	/)		
B-19.	Could you briefly describe problems													
	you are facing related to present water supply condition?													

C. Existing Sanitation Facilities for the Household

C-1.	Which type of sanitation facility does your household have?	[1] Pit latrine [2] Improved pit latrine with concrete slab [3] VIP latrine [4] Nothing [5] Others ()
C-2.	Who uses the sanitation facility selected in C-1 in your household?	
C-3.	If the answer to C-1 is [4] Nothing, what is the reason of no sanitation facility in your household?	
C-4.	If you would like to improve the sanitation facility, which type of facility would you prefer?	[1] Pit latrine [2] Improved pit latrine with concrete slab [3] VIP latrine [4] Others ()
C-5.	Which type of sanitation facilities does your household own apart from the latrine? (multiple answer)	[1] Refuse pit [2] Dish lack [3] Hand washing facility [4] Others (specify)
C-6.	When do you normally wash your hands? (multiple answer)	[1] Before cooking [2] Before eating [3] After going to the latrine [4] After working outside [5] Others (specify:)
C-7.	How do you wash your hands?	[1] In the basin [2] Outside the basin [3] Pour water from a cup [4] Others (specify:)
C-8.	How do you keep drinking water in your house?	[1] In a container inside the house with lid [2] In a container inside the house without lid [3] In a container outside the house with lid [4] In a container outside the house without lid [5] Others (specify:)
C-9.	Do you wash vessels which you carry and keep water before use?	[1] Yes [2] No
C-10.	Do you treat water before drinking?	[1] Yes [2] No
C-11.	If Yes to C-10, how do you treat water?	[1] Boiling [2] Putting chlorine [3] Filtering [4] Allowing it to settle [5] Pouring ash in and allowing it to settle [6] Others (Specify

D. Health Status of Members of Household

D-1.	What is the major disease for members of	[1] Diarrhoea	[2] Eye disease	[3] Skin disease
	your household? (multiple answer)	[4] Others (specify)

Sample Household Survey

D-2.	Have the children had diarrhoea in the last two or three days?	[1] Yes	[2] No [3] Unknown
D-3.	If Yes to D-2, how was it treated?			
D-4.	Who else has suffered from diarrhoea in the last two or three days?			
D-5.	How was it treated?			
D-6.	How much do you pay for medical cost a month on average?		Kwacha	
D-7	Have you ever attended health and hygiene education programme by any organisation?	[1] Yes	[2] No	
D-8.	If yes to D-7, what was the useful information for you and your household?			
D-9.	Could you briefly describe problems you are facing related to health and hygiene?			
	E. Maintenance of Water and Sanitation	Facilities		
E-1.	Is your household supposed to pay for o and maintenance cost of the water facility your household uses for drinking water?	-	[1] Yes [2]	No [3] Unknown
E-2.	If yes to E-1, how much is your ho supposed to pay?	ousehold	K per month/	year
E-3.	If yes to E-1, does your household actually the cost?	pay for	[1] Yes [2] No	
E-4.	If No to E-3, what is the reason for your honor to pay?	ousehold		
E-5.	Who is usually maintaining water source your household uses for drinking water?	e which	[1] Water committee [3] Others (Specify	[2] Nobody
E-6.	Who is responsible for repairs of the water when it breaks down?	facility	[1] Water committee[3] Nobody[4] Others (Specify	[2] District officers
E-7.	Has your household ever tried to improve facility by your own effort?	e water	[1] Yes [2] No	
E-8.	If Yes to E-7, how did you try to imprexisting water facility for your household why?			

Sample Household Survey

E-9.	Has your household ever tried t sanitation facility by your own effort?	o improv	'e [1] Y	'es		[2] No					
E-10.	If Yes to E-9, how did you try to improsanitation facility for your household?		g 									
E-11.	Would you be willing to contribute construction and maintenance of improved water supply facility if it your village?	commun	al [1] X	'es		[2] No)					
E-12.	If Yes to E-11, how much could your pay as a maintenance fund for communal water facility?		i K			per mo	onth/ y	ear				
E-13.	Would you be willing to contribute construction and maintenance of improved water supply facility if it your village?	commun	al [1] \$	'es		[2] No)					
E-14.	If Yes to E-13, what kind of material household contribute for construction communal improved water facility? (multiple answer)	J	of [4] p	urnt brooles Others ([2] saı			3] crus	hed sto	one
E-15.	What is your priority on the areas below concerning improvement of your condition? (Please put number from high	your livin	g Latri	th [ne faci rs (spe	lity [])
	F. Economic Status of the Household											
F-1.	What is the main income source of your household? (multiple answer)	[1] Farm [5] Piece [7] Other	work	2] Catt [6] Han		O	[3]	Fishir	ng	[4] Tı	rading	_)
F-2.	When can you get cash income in a year?	J	F M	A	M	J	J	A	S	0	N	D
F-3.	How do you earn a living during the period apart from the month(s) indicated in F-2?											
F-4.	Do you own your farming land?	[1] Yes		[2] No)							
F-5.	What is the most costly thing in your											
	household expenses in a month?											
F-6.	How much on average do you spend for it?	K		/	montl	1	***************************************	***************************************	1100001000010000			18188818888888888888
F-7.	How many members in your	[1] Adult		[]			dult w		[]
	household earn a living?	[3] Boy o	child	[[4] (Girl chi	ild	[]

Ap 5-4 Results of Screening for Selection of the Project Sites

- (1) Mpika District
- (2) Chinsali District
- (3) Isoka District
- (4) Nakonde District
- (5) Mbala District
- (6) Mpulungu District
- (7) Luwingu District

(1) MPIKA DISTRICT

Part	(1)						Sc	creening to A	Assess Feasibility	y for Project Ir	mplementatio	n	Selection of Project Candidate Sites	
Marco Budis Village	Site No.	Site Name						Existing Main Water	Other Available	Willingness				Summary of Status of the Site
Miles Caluma Village	MK 22 N	Malambwa Village	2	1	Υ	1326	Α	dug well	borehole	Υ	N	Y	Υ	Project Candidate Site
Mix	MK 20 I	funda Village	5	2	Υ	510	Α	scoop hole		Υ	N	Υ	Υ	Project Candidate Site
Miles Medicabil 8	MK 19	Kaluba Village	6	3	Υ	2500	Α	scoop hole	stream	Y	N	Υ	Υ	Project Candidate Site
No. 2 Caube Virage	MK 7	Katongo Kapala	7	4	Υ	600	А	stream		Y	N	Υ	Υ	Project Candidate Site
Mix 29 (Auburgule Palace) 12 6 7 1912 A 3 soop hole blownow y N N Y Y Project Cardidates Site No. 32 (Auburgule Palace) 13 7 V 283 A soop hole with No. 32 (Auburgule Palace) 15 8 V 105 A soop hole with No. 32 (Auburgule Palace) 15 8 V 283 A soop hole with No. 32 (Auburgule Village) 15 8 V 283 A soop hole with No. 32 (Auburgule Village) 17 10 V 256 A soop hole with No. 32 (Auburgule Village) 17 10 V 256 A soop hole with No. 32 (Auburgule Village) 17 10 V 256 A soop hole with No. 32 (Auburgule Village) 19 12 V 165 A soop hole with No. 4 N Y Y Project Cardidates Site No. 4 N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 12 V 165 A steam Y N N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 12 V 165 A steam Y N N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 12 V 165 A steam Y N N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 12 V 165 A steam Y N N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 15 V 1000 A diag well Y N N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 16 Y 1000 A steam Y N N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 16 Y 1000 A steam Y N N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 16 Y 1000 A steam Y N N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 16 Y 1000 A steam Y N N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 17 N N Y N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 17 N N Y N Y Y Project Cardidates Site No. 5 (Auburgule Village) 19 17 N N Y N Y N Y Project Cardidates Site No. 5 (Auburgule Village) 19 17 N N Y N N Y N Y N N Y N N Y N N N Y N N N Y N	MK 8	Mwateshi	8	5	Υ	130	Α	scoop hole		Y	N	Υ	Y	Project Candidate Site
Michael Mich	MK 26 H	Kaole Village	12	6	Υ	1812	Α	scoop hole	borehole	Y	N	Y	Υ	Project Candidate Site
Mile 17 Chockels Willage	MK 32	Mukungule Palace	13	7	Υ	243	Α	scoop hole		Y	N	Y	Y	Project Candidate Site
Miles St. Chrobeles School 16		-		8										Project Candidate Site
Michael School 17	MK 15 (Chohela School	16	9	Υ	250	А	dua well		Υ	N	Υ	Υ	Project Candidate Site
Mic. 14 Chinhala School														
No. 1 Luffa Village		-							ououm					
Mix Box Ngwai														
Mic 20 Luchembe Village		-												-
Mic 21 Chalopo Village									scoon hole					
MK 24 Chambeshi Village									scoop noie					
MK 21 Mulubushi Village														-
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MK 43 Chiundaponde RHC 41 N Y N N (not surveyed) Excluded												,		
		•										,		
No. of Project Candidate Sites / No. of Requested Sites 21/45	MK 43	Chiundaponde RHC		.:		Cir :	Nia 1		Citan	Y	N	N (not surveyed) 21/45		Excluded

Note:

1. Criteria for screening of the sites for assessment of the feasibility for project implementation

Field survey

Y: Field survey was done. N: Field survey was not conducted due to the reason indicated.

A: Accessible throughout a year B: Accessible only in dry season C: Inaccessible throughout a year Accessibility Willingness

Y: Community expressed willingness to manage the new water facility. N: Community did not express willingness to manage the new water facilities.

Dupulication with other interventions Y: There is dupulication on the project site with other intervention N: No dupulication on the project site Results of Selection of Feasible Sites Y: Feasible sites N: Excluded from the project

2. Criteria to select the project candidate sites

Existing CBOs in water or health Y: The community has a Community-Based Organisation related to water or health.

- 3. Summary of the Status of the Sites
- a) Project Candidate Site: Prioritised sites to implement construction of the borehole water supply facilities in this project.
- b) Alternative Site: In case two unsuccessful drillings are made at one site among the project candidate sites, the thrid drilling will be moved to one of the alternative sites in accordance with the priority ranking of the project in order to meet the target number of boreholes under the project.
- c) Excluded: The site was excluded from the targets of this project.

(2) CHINSALI DISTRICT

						S	creening to	Assess Feasibility for	or Project Imp	olementation		Selection of Project Candidate Sites	
Site No.	Site Name	D-WASHE Priority	Project Priority	Field survey	Pop.>	Acces sibility	Condition Existing Main Water Source	Other Available Sources	Willingness	Other Intervention	Results of Selection of Feasible Sites	Existing CBOs in water or health	Summary of Status of the Site
CH 4	Kalela Village 1	1	1	Υ	1000	Α	stream	dug well	Y	N	Y	Y	Project Candidate Site
CH 21	Kantimba School	2	2	Υ	272	Α	spring	stream	Υ	N	Y	Υ	Project Candidate Site
CH 30	Kalisha School	6	3	Υ	510	Α	stream		Υ	N	Y	Y	Project Candidate Site
CH 24	Musonko School	8	4	Υ	272	В	pond		Υ	N	Y	Υ	Project Candidate Site
CH 22	Vitondo School	9	5	Υ	229	Α	spring		Υ	N	Y	Y	Project Candidate Site
CH 6	Nambuluma Village	10	6	Υ	575	Α	dug well	stream, borehole	Υ	N	Y	Y	Project Candidate Site
CH 27	Kapashi Village	12	7	Υ	574	В	stream	pond	Υ	N	Υ	Y	Project Candidate Site
CH 31	Shimwalule School	13	8	Υ	300	Α	dug well		Υ	N	Y	Υ	Project Candidate Site
CH 33	Chipunga School	14	9	Υ	238	Α	stream		Y	N	Y	Y	Project Candidate Site
CH 10	Kalela Village 2	15	10	Υ	1000	Α	stream	dug well	Y	N	Y	Y	Project Candidate Site
CH 34	Mupeka School	16	11	Υ	200	Α	stream		Υ	N	Y	Υ	Project Candidate Site
CH 16	Mungulube School	17	12	Υ	315	Α	scoop hole		Y	N	Y	Y	Project Candidate Site
CH 14	Sele School	18	13	Υ	211	Α	scoop hole		Υ	N	Y	Υ	Project Candidate Site
CH 13	Chinkalanga School	19	14	Υ	287	Α	stream		Υ	N	Y	Y	Project Candidate Site
CH 9	Chabala Village	21	15	Υ	400	Α	dug well		Υ	N	Y	Υ	Project Candidate Site
CH 7	Mulanga Village	22	16	Υ	776	Α	spring	public tap	Υ	N	Y	Υ	Project Candidate Site
CH 11	Chibesakunda School	23	17	Υ	600	Α	furrow	stream, dug well	Υ	N	Y	Υ	Project Candidate Site
CH 12	Kabangama School	24	18	Υ	327	Α	stream		Υ	N	Y	Y	Project Candidate Site
CH 19	Mwalala School	25	19	Υ	500	Α	stream		Υ	N	Y	Υ	Project Candidate Site
CH 18	Chibesa School	26	20	Υ	348	Α	stream		Υ	N	Y	Υ	Project Candidate Site
CH 26	Mukwikile Palace	28	21	Υ	125	Α	scoop hole	stream, dug well	Υ	N	Y	Y	Project Candidate Site
CH 29	Kapisha School	29	22	Υ	231	Α	stream		Υ	N	Y	Υ	Project Candidate Site
CH 32	Cheswa School	30	23	Υ	270	Α	dug well		Υ	N	Y	Υ	Project Candidate Site
CH 1	Mubanga Village	31	24	Υ	568	Α	stream		Υ	N	Y	Υ	Project Candidate Site
CH 3	Musanya School	32	25	Υ	267	Α	stream	dug well	Υ	N	Y	Υ	Project Candidate Site
CH 15	Lubwa Village	33	26	Υ	800	Α	scoop hole	pond	Υ	N	Y	Y	Project Candidate Site
CH 2	Mpyanavwalya Village	34	27	Υ	700	Α	scoop hole		Υ	N	Y	Y	Project Candidate Site
CH 36	Chilunda School	3	28	Υ	370	Α	dug well		Υ	N	Y		Alternative Site
CH 5	Lubu Scheme	5	29	Υ	216	Α	dug well	stream	Υ	N	Y		Alternative Site
CH 28	Mukungwa School	7	30	Υ	230	Α	stream		Υ	N	Y		Alternative Site
CH 17	Poya School	11	31	Υ	237	Α	stream		Υ	N	Y		Alternative Site
CH 8	Musapa Village	20	32	Υ	310	Α	stream		Υ	N	Y		Alternative Site
CH 23	Matumbo Village	27	33	Υ	2150	Α	stream	dug well	Υ	N	Y		Alternative Site
CH 25	Choshi Village	35	34	Υ	3000	Α	dug well	public tap	Υ	N	Y		Alternative Site
CH 20	Chandamali Village	36	35	Υ	2000	Α	public tap	dug well	Υ	N	Y		Alternative Site
CH 35	Bwinambo School	4		N					Υ	N	N (not surveyed)		Excluded
		No. of	Project	Candida	ate Site	s/No.	of Requeste	d Sites			27/36		ļ

Note:

1. Criteria for screening of the sites for assessment of the feasibility for project implementation

Field survey Y: Field survey was done. N: Field survey was not conducted due to the reason indicated.

Accessibility A: Accessible throughout a year B: Accessible only in dry season C: Inaccessible throughout a year

Y: Community expressed willingness to manage the new water facility. N: Community did not express willingness to manage the Willingness

new water facilities.

Dupulication with other interventions Y: There is dupulication on the project site with other intervention N: No dupulication on the project site Results of Selection of Feasible Sites Y: Feasible sites N: Excluded from the project

2. Criteria to select the project candidate sites

Y: The community has a Community-Based Organisation related to water or health. Existing CBOs in water or health

- 3. Summary of the Status of the Sites
- a) Project Candidate Site: Prioritised sites to implement construction of the borehole water supply facilities in this project.
- b) Alternative Site: In case two unsuccessful drillings are made at one site among the project candidate sites, the thrid drilling will be moved to one of the alternative sites in accordance with the priority ranking of the project in order to meet the target number of boreholes under the project.
- c) Excluded: The site was excluded from the targets of this project.

(3) ISOKA DISTRICT

						Sci	eening to As	ssess Feasibility	for Project In	nplementation	n	Selection of Project Candidate Sites	
Site No.	Site Name	D-WASHE Priority	Project Priority	Field survey	Pop.> 100	Acces sibility	Condition of Existing Main Water Source	of Water Supply Other Available Sources	Willingness	Other Intervention	Results of Selection of Feasible Sites	Existing CBOs in water or health	Summary of Status of the Site
IS 17	Katanga Village	1	1	Υ	1803	Α	stream		Υ	N	Υ	Υ	Project Candidate Sit
IS 28	Muyombe Village A	3	2	Υ	1209	В	scoop hole	stream, dug well	Υ	N	Υ	Υ	Project Candidate Sit
IS 27	Thendere Basic School	6	3	Υ	900	Α	stream		Υ	N	Υ	Y	Project Candidate Si
IS 26	Thendere RHC	7	4	Υ	200	Α	dug well		Υ	N	Υ	Y	Project Candidate Si
IS 43	Mulekatembo	11	5	Υ	200	Α	stream		Y	N	Υ	Y	Project Candidate Si
IS 39	Itontela Village	12	6	Υ	1000	Α	scoop hole		Υ	N	Υ	Y	Project Candidate Si
IS 41	Nachisitu Village	14	7	Υ	500	В	spring	dug well	Υ	N	Y	Y	Project Candidate Si
IS 5	Mulamba	17	8	Υ	260	Α	stream		Y	N	Υ	Y	Project Candidate Si
IS 2	Kafwimbi C	24	9	Y	1000	Α	borehole	dug well	Y	N	Y	Y	Project Candidate Si
IS 21	Mutukumbi	26	10	Y	2000	Α	dug well		Y	N	Y	Y	Project Candidate Si
	Namisuku (Kalungu)	27	11	Y	1676	Α	stream	dug well	Y	N	Y	Y	Project Candidate Si
	Sansamwenje Village	28	12	Y	230	A	dug well	borehole	Y	N	Y	Y	Project Candidate Si
	Mulungwizi Village	30	13	Y	674	В	stream	dug well	Y	N	Y	Y	Project Candidate Si
	Kawenga	34	14	Y	1000	A B	public tap	d	Y	N	Y	Y	Project Candidate Si
	Kantensha (Yazaza)	38	15		130		stream	dug well,		N			Project Candidate Si
IS 12	Mwaiseni Village A	39	16	Y	200	Α	stream	borehole	Y	N	Y	Y	Project Candidate Si
IS 42	Chimungoto Village	2	17	Υ	600	Α	dug well	scoop hole	Y	N	Y		Alternative Site
IS 1	Wenela	4	18	Υ	784	Α	stream	scoop hole	Υ	N	Y		Alternative Site
IS 16	Tubale	5	19	Υ	200	В	stream		Υ	N	Y		Alternative Site
IS 33	Sichinga (Choma) Village	8	20	Υ	112	Α	dug well	scoop hole	Υ	N	Y		Alternative Site
IS 3	Kapembe	9	21	Υ	157	Α	spring	scoop hole, stream, dug	Υ	N	Υ		Alternative Site
IS 13	Chanama	10	22	Υ	350	В	stream		Υ	Z	Υ		Alternative Site
IS 9	Mweni Mpangala	13	23	Υ	2500	В	stream		Y	N	Υ		Alternative Site
	Mupapa	16	24	Y	215	В	stream		Y	N	Y		Alternative Site
				Y					Y				
	Lualizi	20	25		900	В .	stream	dug well,		N 	Y		Alternative Site
IS 6	Chitete Village	21	26	Y	560	Α	stream	borehole	Y	N	Y		Alternative Site
IS 24	Nyengo Village	22	27	Υ	177	Α	stream		Y	N	Y		Alternative Site
IS 4	Ntumbi	23	28	Υ	105	Α	dug well		Y	N	Y		Alternative Site
IS 18	Chuwi	32	29	Υ	900	Α	stream		Υ	N	Y		Alternative Site
IS 14	Chiwanda Village	33	30	Υ	600	Α	stream		Υ	N	Υ		Alternative Site
IS 22	Noa's Village	35	31	Υ	180	Α	scoop hole		Υ	N	Y		Alternative Site
IS 23	Kosamu Village	36	32	Υ	402	Α	dug well		Y	N	Υ		Alternative Site
IS 29	Chinyansi Village	37	33	Υ	1008	Α	spring	stream, dambo	Υ	N	Υ		Alternative Site
	Mwaiseni Village C	40	34	Υ	200	Α	stream	dug well, borehole	Y	N	Υ		Alternative Site
	Kapililonga	41	35	Y	375	A	dug well	borehole	Y	N	Y		Alternative Site
	Mweniwisi	15	- 55	N	0.0		stream	501011010	Y	N	N (not surveyed)		Excluded
	Mweniwisi School	18		N			dug well	stream	Y	N	N (not surveyed)		Excluded
IS 19	Mwembe	31		Y	116	Α	borehole	public tap	Y	N	N (Existing water facilities sufficient)		Excluded
											N (Poplation too		
	Sichitambule Village	19		Y	80	Α	dug well		Y	N	small)		Excluded Excluded
	Chipokoso Village Kalimwitengo	25 29		N Y	124	С	dug well		Y	N N	N (not surveyed) N (Inaccessible)		Excluded
											N(Existing water		
IS 36	Zebedia Village	43		Y	169	Α	borehole	dug well	Y	N	facilities sufficient) N(Existing water		Excluded
IS 37	Namyala	42		Υ	355	Α	borehole	scoop hole	Υ	N	facilities sufficient)		Excluded

Note:

1. Criteria for screening of the sites for assessment of the feasibility for project implementation

Field survey Accessibility

Y: Field survey was done. N: Field survey was not conducted due to the reason indicated.
A: Accessible throughout a year B: Accessible only in dry season C: Inaccessible throughout a year Y: Community expressed willingness to manage the new water facility. N: Community did not expres N: Community did not express willingness to manage the Willingness new water facilities.

Criteria to select the project candidate sites
 Criteria to select the project candidate sites
 Criteria CROs in water or health
 Y: The community has a Community-Based Organisation related to water or health.

3. Summary of the Status of the Sites

- a) Project Candidate Site: Prioritised sites to implement construction of the borehole water supply facilities in this project.
 b) Alternative Site: In case two unsuccessful drillings are made at one site among the project candidate sites, the thrid drilling will be moved to one of the alternative sites in accordance with the priority ranking of the project in order to meet the target number of boreholes under the project.
 c) Excluded: The site was excluded from the targets of this project.

(4) NAKONDE DISTRICT

						Sc	reening to A	ssess Feasibility	for Project In	nplementation	1	Selection of Project Candidate Sites	
Site No.	Site Name	D-WASHE Priority	Project Priority	Field survey	Pop.> 100	Acces sibility	Condition of Existing Main Water Source	Of Water Supply Other Available Sources	Willingness	Other Intervention	Results of Selection of Feasible Sites	Existing CBOs in water or health	Summary of Status of the Site
NA 35	Chapanya School	1	1	Υ	300	Α	spring	stream	Υ	N	Υ	Υ	Project Candidate Site
NA 36	Mwanga School	2	2	Υ	219	Α	spring		Υ	N	Υ	Υ	Project Candidate Site
NA 9	Mipulya School	3	3	Υ	320	Α	stream		Υ	N	Υ	Υ	Project Candidate Site
NA 2	Kawele School	4	4	Υ	232	Α	stream		Υ	N	Υ	Υ	Project Candidate Site
NA 14	Nankungulu School	6	5	Υ	175	Α	scoop hole		Υ	N	Y	Υ	Project Candidate Site
NA 15	Chisambwe School	7	6	Υ	150	В	dug well		Υ	N	Y	Y	Project Candidate Site
NA 27	Chitambi Village	9	7	Υ	300	Α	dug well	dambo	Υ	N	Y	Υ	Project Candidate Site
NA 19	Shemu RHC	10	8	Υ	108	В	dug well		Υ	N	Y	Υ	Project Candidate Site
NA 12	Uzinji School	11	9	Υ	243	В	spring		Υ	N	Y	Y	Project Candidate Site
NA 21	Lukumba Village	13	10	Υ	400	Α	dambo		Υ	N	Y	Y	Project Candidate Site
NA 23	Mutachi Village	16	11	Υ	647	В	dug well		Υ	N	Υ	Υ	Project Candidate Site
NA 25	Lyuchi Village	17	12	Υ	465	Α	dug well		Υ	N	Υ	Υ	Project Candidate Site
NA 28	Musesengoma Village	18	13	Υ	107	Α	dug well		Υ	N	Υ	Υ	Project Candidate Site
NA 29	Mwanga Village	19	14	Υ	431	Α	stream		Υ	N	Υ	Υ	Project Candidate Site
NA 33	Chozi	20	15	Υ	950	Α	borehole		Υ	N	Υ	Y	Project Candidate Site
NA 1	Nakakola Village (A)	21	16	Υ	1000	Α	stream	dug well	Υ	N	Υ	Υ	Project Candidate Site
NA 3	Kandalala Village	22	17	Υ	192	Α	scoop hole		Υ	N	Υ	Y	Project Candidate Site
NA 4	Kawele Village	23	18	Υ	800	Α	dug well	spring	Υ	N	Υ	Υ	Project Candidate Site
NA 6	Nega (A)	25	19	Υ	324	Α	dug well	spring	Υ	N	Υ	Υ	Project Candidate Site
NA 11	Isasa Village	28	20	Υ	170	Α	stream	dug well	Υ	N	Υ	Υ	Project Candidate Site
NA 8	Mayembe Village	29	21	Υ	309	Α	dug well	borehole	Υ	N	Υ	Υ	Project Candidate Site
NA 30	Izuwa Village (B)	32	22	Υ	700	Α	scoop hole		Υ	N	Υ	Υ	Project Candidate Site
NA 32	Nkasichila Village	33	23	Υ	1876	Α	scoop hole	dug well, borehole	Υ	N	Υ	Υ	Project Candidate Site
NA 34	Muli Village	34	24	Υ	560	Α	stream	scoop hole	Υ	N	Υ	Υ	Project Candidate Site
NA 13	Chiwale school	5	25	Υ	135	Α	dug well		Υ	N	Υ		Alternative Site
NA 17	Yolo Community School	12	26	Υ	240	Α	stream	dug well	Υ	N	Υ		Alternative Site
NA 22	Ilenga Village	14	27	Υ	105	В	stream		Υ	N	Υ		Alternative Site
NA 24	Kazembe Village	15	28	Υ	425	В	stream	scoop hole	Υ	N	Υ		Alternative Site
NA 5	Burton Village	24	29	Υ	1115	А	stream		Υ	N	Υ		Alternative Site
NA 7	Kasakalabwe Village	26	30	Υ	207	Α	stream		Υ	N	Υ		Alternative Site
NA 26	Musanka Village	31	31	Υ	100	А	dug well		Υ	N	Υ		Alternative Site
NA 31	Chinsambwe Village	35	32	Υ	170	Α	scoop hole	dug well	Υ	N	Υ		Alternative Site
NA 10	Nachipeta A	27		Υ	260	Α	spring	scoop hole, dug well.	Y	N	N(Existing water facilities sufficient)		Excluded
	Kazembe School	8		N			, 3	J	Y	N	N(not surveyed)		Excluded
	Musesengoma School	36		Υ	360	А	borehole		Y	N	N(Existing water facilities sufficient)		Excluded
	Kalanda	30		Y	65			scoop hole, pond	Y	N	N(Population too small)		Excluded
NA 20	naidilua		ject Can				stream Requested S		ı ı	IN	24/36	<u> </u>	LAGIUUEU

Note:

1. Criteria for screening of the sites for assessment of the feasibility for project implementation

Y: Field survey was done. N: Field survey was not conducted due to the reason indicated.
A: Accessible throughout a year B: Accessible only in dry season C: Inaccessible throughout a year

Y: Community expressed willingness to manage the new water facility. N: Community did not express willingness to manage the Willingness new water facilities.

Dupulication with other interventions Y: There is dupulication on the project site with other intervention N: No dupulication on the project site

Results of Selection of Feasible Sites Y: Feasible sites N: Excluded from the project

2. Criteria to select the project candidate sites

Y: The community has a Community-Based Organisation related to water or health. Existing CBOs in water or health

- 3. Summary of the Status of the Sites
- a) Project Candidate Site: Prioritised sites to implement construction of the borehole water supply facilities in this project.
- b) Alternative Site: In case two unsuccessful drillings are made at one site among the project candidate sites, the thrid drilling will be moved to one of the alternative sites in accordance with the priority ranking of the project in order to meet the target number of boreholes under the project.
- c) Excluded: The site was excluded from the targets of this project.

(5) MBALA DISTRICT

						Sc	reening to A	ssess Feasibility	for Project Im	plementation	ı	Selection of Project	
Site No.	Site Name	D-WASHE	Project		_			of Water Supply		6.1	5 h (6 h d	Candidate Sites	Summary of Status of
		Priority	Priority	Field survey	Pop.> 100	Acces sibility	Existing Main Water	Other Available Sources	Willingness	Other Intervention	Results of Selection of Feasible Sites	Existing CBOs in water or health	the Site
							Source	Sources					
MB 7	Musipazi Village	1	1	Υ	400	Α	spring		Υ	N	Υ	Υ	Project Candidate Site
MB 6	Musipazi School	2	2	Υ	168	Α	spring		Y	N	Υ	Y	Project Candidate Site
MB 8	Mpunga Village	3	3	Υ	894	Α	stream		Y	N	Y	Y	Project Candidate Site
	Makala Village	4	4	Υ	431	Α	stream		Y	N	Y	Y	Project Candidate Site
	Kakonde Village	5	5	Υ	500	Α	spring		Y	N	Y	Y	Project Candidate Site
	Kavumbo School	7	6	Y	564	Α .	scoop hole	stream	Y	N	Y	Y	Project Candidate Site
	Vimbuli Village	8	7	Y	720	A	stream	scoop hole	Y	N	Y	Y	Project Candidate Site
	John Chivuta School	9	8	Y	176	В	stream		Y	N	Y	Y	Project Candidate Site
	Kamyanga Village Namukale Village	10	9	Y	600 436	A B	stream		Y	N N	Y	Y	Project Candidate Site Project Candidate Site
	Moses School	13	11	Y	285	A	spring dug well	stream	Y	N	Y	Y	Project Candidate Site
	Kalala Village	16	12	Y	400	A	furrow	stream	Y	N	Y	Y	Project Candidate Site
	Mulowezi Village	17	13	Y	355	A	stream	dug well	Y	N	Y	Υ	Project Candidate Site
	Moses Village	19	14	Y	2400	A	stream	aug won	Y	N	Y	Y	Project Candidate Site
	Njelesani Village	24	15	Υ	800	Α	stream		Υ	N	Y	Υ	Project Candidate Site
	Kati Village	25	16	Υ	630	Α	spring	scoop hole	Y	N	Υ	Υ	Project Candidate Site
MB 37	Mfwambo School	27	17	Υ	256	В	spring		Υ	N	Υ	Υ	Project Candidate Site
MB 36	David Chikoti Village	28	18	Υ	400	Α	spring	dug well	Υ	N	Υ	Υ	Project Candidate Site
MB 16	Songolo Village	29	19	Υ	426	Α	scoop hole	stream, dug well	Y	N	Υ	Υ	Project Candidate Site
MB 29	Mambwe School	30	20	Y	603	Α	public tap	dug well. Borehole	Y	N	Υ	Υ	Project Candidate Site
	Rueben School	31	21	Υ	280	А	stream	scoop hole	Υ	N	Y	Υ	Project Candidate Site
MB 26	Chimula Village	33	22	Υ	900	Α	scoop hole		Υ	N	Y	Υ	Project Candidate Site
	Zombe School	37	23	Υ	324	Α	dug well	spring	Y	N	Y	Υ	Project Candidate Site
MB 5	Chupa Village	38	24	Υ	210	Α	scoop hole		Υ	N	Υ	Υ	Project Candidate Site
MB 43	Isanya Village	43	25	Υ	2200	Α	borehole		Y	N	Υ	Y	Project Candidate Site
MB 47	Londe Village	46	26	Υ	300	Α	dug well	borehole	Y	N	Υ	Υ	Project Candidate Site
MB 3	Mulunda Village	48	27	Υ	202	Α	dug well	scoop hole	Y	N	Y	Υ	Project Candidate Site
MB 53	Chileshya School	49	28	Υ	306	Α	scoop hole		Υ	N	Υ	Y	Project Candidate Site
MB 30	Nshindano School	50	29	Υ	150	В	scoop hole		Υ	N	Y	Y	Project Candidate Site
MB 33	Kalekwa Village	52	30	Y	1160	В	dug well	scoop hole	Y	N	Y	Y	Project Candidate Site
	Mwila Village	53	31	Υ	400	Α	dug well		Y	N	Y	Y	Project Candidate Site
	Mindolo Village	6	32	Y	340	Α	scoop hole		Y	N	Y		Alternative Site
	Kaziwe School	12	33	Y	108	B .	spring		Y	N	Y		Alternative Site
	Muwambezi Chilino Village	14	34	Y	665	A	stream		Y	N	Y		Alternative Site
	Chinenke Village	15	35	Y	700	A	stream		Y	N	Y		Alternative Site
	Sume Village	18 20	36 37	Y	402		scoop hole		Y	N N	Y		
	Chasha Village Kedricks Katipa Village	21	38	Y	315 250	A	stream		Y	N	Y		Alternative Site Alternative Site
	Chiyanga School	23	39	Y	415	A	stream	dug well	Y	N	Y		Alternative Site
	Kanyika Village	26	40	Y	324	A	stream	9"	Y	N	Y		Alternative Site
	Chimula School	34	41	Y	224	A	scoop hole		Y	N	Y		Alternative Site
	Chipanda Village	35	42	Υ	250	В	stream		Y	N	Y		Alternative Site
	Kaponda Village	36	43	Υ	112	Α	spring		Υ	N	Υ		Alternative Site
MB 34	Elon Village	39	44	Υ	238	Α	scoop hole	dug well	Υ	N	Υ		Alternative Site
MB 11	Lukwesa Village	40	45	Υ	304	Α	dug well		Υ	N	Y		Alternative Site
MB 17	Nakaponda Village	41	46	Υ	135	Α	spring		Y	N	Υ		Alternative Site
MB 35	Lobo Village	42	47	Υ	210	Α	stream	dombo	Y	N	Υ		Alternative Site
MB 10	Musekelele Village	44	48	Υ	192	Α	scoop hole	dambo, borehole	Υ	N	Υ		Alternative Site
MB 9	Masamba Village	45	49	Υ	345	Α	stream	dug well	Υ	N	Υ		Alternative Site
MB 49	Muntonga Village	47	50	Υ	700	Α	stream	scoop hole, dug well,	Υ	N	Υ		Alternative Site
MB 38	Mwamba School	51	51	Υ	302	Α	dug well		Υ	N	Υ		Alternative Site
	Mwenyi School	32		Υ	175	С	scoop hole		Y	N	N(Inaccessibility)	_	Excluded
MB 21	Mwambezi Kawama Village	22		Υ	376	Α	borehole	dug well	Y	N	N(Existing water facilities sufficient)		Excluded
		No. of Pro	oject Can	didate S			equested S				31/53		

Note:

- 1. Criteria for screening of the sites for assessment of the feasibility for project implementation
- Field survey
- Accessibility
- Y: Field survey was done. N: Field survey was not conducted due to the reason indicated.

 A: Accessible throughout a year B: Accessible only in dry season C: Inaccessible throughout a year

 Y: Community expressed willingness to manage the new water facility.

 N: Community did not express willingness to manage the new water facilities. Willingness
- Dupulication with other interventions Y: There is dupulication on the project site with other intervention N: No dupulication on the project site Results of Selection of Feasible Sites Y: Feasible sites N: Excluded from the project
- 2. Criteria to select the project candidate sites
- Existing CBOs in water or health Y: The community has a Community-Based Organisation related to water or health.
- 3. Summary of the Status of the Sites
- a) Project Candidate Site: Prioritised sites to implement construction of the borehole water supply facilities in this project.
 b) Alternative Site: In case two unsuccessful drillings are made at one site among the project candidate sites, the thrid drilling will be moved to one of the
- alternative sites in accordance with the priority ranking of the project in order to meet the target number of boreholes under the project.

 c) Excluded: The site was excluded from the targets of this project.

(6) MPULUNGU DISTRICT

	(0) 1411 0				-	So	creening to A	ssess Feasibility f	for Project Im	plementation	ı	Selection of Project	
Site No.	Site Name	D-WASHE	Project					of Water Supply				Candidate Sites	Summary of Status of
One rue.	One Hame	Priority	Priority	Field survey	Pop.> 100	Acces sibility	Existing Main Water Source	Other Available Sources	Willingness	Other Intervention	Results of Selection of Feasible Sites	Existing CBOs in water or health	the Site
ML 20	Muswilo	1	1	Υ	530	Α	stream		Υ	N	Υ	Υ	Project Candidate Site
ML 25	Katula	2	2	Υ	192	Α	stream		Υ	N	Y	Υ	Project Candidate Site
ML 30	Makola	3	3	Υ	284	Α	furrow		Υ	N	Y	Υ	Project Candidate Site
ML 40	Mwanakatwe	4	4	Y	266	Α	stream		Υ	N	Y	Υ	Project Candidate Site
ML 29	Isoko	5	5	Y	320	Α	stream		Υ	N	Y	Υ	Project Candidate Site
ML 43	Kasakalawe	7	6	Υ	4800	В	spring		Υ	N	Y	Υ	Project Candidate Site
ML 38	Mupata	9	7	Υ	6400	Α	stream	borehole	Υ	N	Y	Υ	Project Candidate Site
ML 42	Musende	11	8	Υ	750	Α	public tap	borehole	Υ	N	Y	Y	Project Candidate Site
ML 24	Patrick	13	9	Υ	380	Α	furrow		Υ	N	Y	Υ	Project Candidate Site
ML 23	Chitinta	14	10	Υ	370	Α	stream		Υ	N	Y	Υ	Project Candidate Site
ML 41	Kapoko	15	11	Υ	680	В	spring		Υ	N	Y	Υ	Project Candidate Site
ML 17	Chilwa	16	12	Υ	2400	В	stream		Υ	N	Y	Υ	Project Candidate Site
ML 15	Jecap	21	13	Υ	2220	Α	stream	dug well	Υ	N	Y	Y	Project Candidate Site
ML 12	Kabamba	23	14	Υ	500	В	stream		Υ	N	Υ	Υ	Project Candidate Site
ML 13	Kopeka	25	15	Υ	4815	В	stream		Υ	N	Y	Y	Project Candidate Site
ML 6	Chitimbwa RHC	27	16	Υ	1380	Α	stream		Υ	N	Y	Υ	Project Candidate Site
ML 8	Chikonde	29	17	Υ	150	Α	stream		Υ	N	Y	Y	Project Candidate Site
ML 5	Mutemfuma	35	18	Υ	270	Α	stream		Υ	N	Y	Υ	Project Candidate Site
ML 26	Mukaka	36	19	Υ	150	Α	stream		Υ	N	Y	Υ	Project Candidate Site
ML 35	Kasansala	39	20	Υ	514	Α	stream		Υ	N	Y	Y	Project Candidate Site
ML 27	Mululwe	41	21	Υ	1000	Α	stream		Υ	N	Y	Υ	Project Candidate Site
ML 31	Chinakila	42	22	Υ	3000	Α	stream		Υ	N	Y	Υ	Project Candidate Site
ML 33	Mulilanondo	43	23	Υ	425	Α	dug well		Υ	N	Y	Υ	Project Candidate Site
ML 37	Kasasa	8	24	Υ	1200	В	scoop hole		Υ	N	Y		Alternative Site
ML 39	Posa	10	25	Υ	504	В	stream	public tap	Υ	N	Y		Alternative Site
ML 11	Shimwalota	22	26	Υ	170	В	stream		Y	N	Y		Alternative Site
ML 10	Ntema	24	27	Υ	116	В	stream		Υ	N	Y		Alternative Site
ML 21	Kalongola	26	28	Υ	170	В	scoop hole	spring	Υ	N	Υ		Alternative Site
ML 18	Chaulu	28	29	Υ	370	Α	stream		Υ	N	Υ		Alternative Site
ML 2	Kambole	30	30	Υ	150	В	stream		Υ	N	Υ		Alternative Site
ML 7	Kasita	32	31	Υ	630	Α	stream		Υ	N	Υ		Alternative Site
ML 4	Lemba 1	33	32	Υ	200	Α	scoop hole		Υ	N	Y		Alternative Site
ML 3	Kakolo	34	33	Υ	357	Α	spring		Υ	N	Υ		Alternative Site
ML 19	Mengo	37	34	Υ	360	В	stream		Υ	N	Y		Alternative Site
ML 9	Kasusu	38	35	Υ	250	Α	stream		Υ	N	Y		Alternative Site
ML 36	Kaunda	40	36	Υ	115	В	stream		Υ	N	Y N(Existing water		Alternative Site
ML 1	Kamba	31		Υ	170	В	borehole		Υ	N	facilities sufficient)		Excluded
ML 14	Simoche	6		Υ	531	С	spring	stream, dug well	Υ	N	N(Inaccessible)		Excluded
ML 16	Kasasi	20		Υ	333	С	dug well	stream	Υ	N	N(Inaccessible)		Excluded
ML 22	Chibote	17		Υ	240	С	stream		Υ	N	N(Inaccessible)		Excluded
ML 28	Kaizya	12		Υ	585	С	stream		Υ	N	N(Inaccessible)		Excluded
ML 32	Vyamba	19		Υ	500	С	dug well		Υ	N	N(Inaccessible)		Excluded
MI 24	Mungula	18		Y	6400	С	stream	1	Υ	N	N(Inaccessible)		Excluded

Note:

1. Criteria for screening of the sites for assessment of the feasibility for project implementation

Y: Field survey was done. N: Field survey was not conducted due to the reason indicated. Field survey

Accessibility A: Accessible throughout a year B: Accessible only in dry season C: Inaccessible throughout a year

Y: Community expressed willingness to manage the new water facility. Willingness N: Community did not express willingness to manage the new water facilities.

Dupulication with other interventions Y: There is dupulication on the project site with other intervention N: No dupulication on the project site Results of Selection of Feasible Sites Y: Feasible sites N: Excluded from the project N: Excluded from the project

2. Criteria to select the project candidate sites

Existing CBOs in water or health Y: The community has a Community-Based Organisation related to water or health.

- 3. Summary of the Status of the Sites
- a) Project Candidate Site: Prioritised sites to implement construction of the borehole water supply facilities in this project.
- b) Alternative Site: In case two unsuccessful drillings are made at one site among the project candidate sites, the thrid drilling will be moved to one of the alternative sites in accordance with the priority ranking of the project in order to meet the target number of boreholes under the project. Excluded: The site was excluded from the targets of this project.

(7) LUWINGU DISTRICT

	. Site Name	D-WASHE Priority	Project Priority	Screening to Assess Feasibility for Project Implementation						Selection of Project Candidate Sites			
Site No.				Field survey	Pop.> 100	Acces sibility	Condition Existing Main Water Source	Other Available Sources	Willingness	Other Intervention	Results of Selection of Feasible Sites	Existing CBOs in water or health	Summary of Status of the Site
LU 40	Kabombo School	1	1	Υ	191	Α	dug well	pond	Υ	N	Υ	Υ	Project Candidate Site
LU 25	Chabula School	2	2	Υ	274	Α	scoop hole		Υ	N	Υ	Υ	Project Candidate Site
LU 32	Katuta RHC	3	3	Υ	360	Α	dug well	scoop hole, borehole	Y	N	Υ	Υ	Project Candidate Site
LU 28	Lundu School	4	4	Υ	520	Α	spring	dug well	Υ	N	Υ	Υ	Project Candidate Site
LU 9	Mpasa School	5	5	Υ	223	Α	scoop hole		Υ	N	Υ	Υ	Project Candidate Site
LU 12	Chifwile School	6	6	Υ	250	Α	spring	scoop hole, dug well	Υ	N	Υ	Υ	Project Candidate Site
LU 16	Luena Clinic	8	7	Υ	200	Α	stream	dug well	Υ	N	Υ	Υ	Project Candidate Site
LU 36	Malekani School	9	8	Υ	236	В	dug well	scoop hole	Υ	N	Υ	Y	Project Candidate Site
LU 7	Chitwa School	12	9	Υ	126	Α	spring	scoop hole	Υ	N	Υ	Υ	Project Candidate Site
LU 8	Mucheleka School	13	10	Υ	361	Α	spring	scoop hole, dug well	Υ	N	Υ	Y	Project Candidate Site
LU 10	Chibiliti Community School	14	11	Υ	348	Α	stream	scoop hole, spring	Υ	N	Υ	Y	Project Candidate Site
LU 30	Mwando HP	15	12	Υ	150	Α	scoop hole		Υ	N	Υ	Y	Project Candidate Site
LU 21	Kabangala School	16	13	Υ	221	Α	stream		Υ	N	Υ	Y	Project Candidate Site
LU 2	Saili	17	14	Υ	405	Α	furrow	dug well	Υ	N	Υ	Y	Project Candidate Site
LU 19	Washeni School	18	15	Υ	216	Α	dug well	scoop hole	Y	N	Υ	Υ	Project Candidate Site
LU 14	Misambula School	19	16	Υ	188	Α	scoop hole		Υ	N	Y	Y	Project Candidate Site
LU 44	Sande Village	20	17	Υ	731	Α	dug well	spring	Υ	N	Υ	Y	Project Candidate Site
LU 42	Kapoma Village	21	18	Υ	240	Α	stream	dug well, spring	Υ	N	Υ	Y	Project Candidate Site
LU 33	Bulambo School	22	19	Υ	211	Α	scoop hole	scoop hole,	Υ	N	Y	Y	Project Candidate Site
LU 15	Kandata School	23	20	Υ	234	Α	spring	spring	Υ	N	Y	Y	Project Candidate Site
LU 18	Nsolo School	24	21	Υ	106	Α	scoop hole	dug well	Y	N	Υ	Y	Project Candidate Site
LU 29	Nsombo Village	25	22	Υ	931	Α	stream	dug well	Υ	N	Υ	Y	Project Candidate Site
LU 26	Mwando School	26	23	Υ	200	Α	scoop hole		Υ	N	Y	Y	Project Candidate Site
LU 41	Kaputu Village	27	24	Υ	350	Α	stream		Y	N	Y	Y	Project Candidate Site
LU 37	Chimpama School	29	25	Υ	231	Α	scoop hole		Y	N	Y	Y	Project Candidate Site
	Kansasa School	30	26	Υ	292	Α	scoop hole		Y	N	Y	Y	Project Candidate Site
LU 3	Paundi	32	27	Y	200	Α	dug well	scoop hole	Y	N	Y	Y	Project Candidate Site
	Katuta Village	34	28	Y	400	Α	scoop hole		Y	N	Y	Y	Project Candidate Site
	Mumba Village	35	29	Υ	394	Α	scoop hole		Y	N	Y	Y	Project Candidate Site
	Chepeshi Village	37	30	Y	123	Α	scoop hole	dug well	Y	N	Y	Y	Project Candidate Site
	Shindaila Village	38	31	Y	275	Α .	stream		Y	N	Y	Y	Project Candidate Site
	Mulala School	42	32	Y	286	A	scoop hole		Y	N	Y	Y	Project Candidate Site
	Chambo School	43	33	Y	226	В	scoop hole		Y	N	Y	Y	Project Candidate Site
	Mfungwe School	7	34	Y	368	A	dug well	scoop hole	Y	N	Y		Alternative Site
	Lwenge School Chibofwe	10	35 36	Y	336 455	A	stream spring	dug well	Y	N N	Y		Alternative Site
								scoop hole, dug			Y		
	Kapisha	31	37 38	Y	1124	A	stream	well	Y	N N	Y		Alternative Site Alternative Site
	Tolopa Village Chakaba Village	33 39	39	Y	360 360	В	scoop hole dug well		Y	N	Y		Alternative Site
	Malaya Village	40	40	Y	210	В	dug well		Y	N	Y		Alternative Site
	Chanda Chipalo	41	41	Y	432	A	dug well		Y	N	Y		Alternative Site
	Ndalama Village	44	42	Y	280	В	dug well		Y	N	Y		Alternative Site
	Isandulula	36		Y	900	A	dug well	scoop hole,	Y	Y	N(Dupulication with other		Excluded
								spring			N(Existing water		
LU 13	Mukanga School	No. of Pro	l piect Can	Y didate	234 Sites /	B No. of F	borehole Requested \$	Sites	Υ	N	facilities sufficient) 33/44		Excluded

Note:

1. Criteria for screening of the sites for assessment of the feasibility for project implementation

Field survey Y: Field survey was done. N: Field survey was not conducted due to the reason indicated.

Accessibility A: Accessible throughout a year B: Accessible only in dry season C: Inaccessible throughout a year

Willingness Y: Community expressed willingness to manage the new water facility. N: Community did not express willingness to manage the new water facilities.

Dupulication with other interventions P: There is dupulication on the project site with other intervention P: There is dupulication on the project site with other intervention P: No dupulication on the project site P: No dupulication on the p: No dupulication on th

2. Criteria to select the project candidate sites

Y: The community has a Community-Based Organisation related to water or health. Existing CBOs in water or health

- 3. Summary of the Status of the Sites
- a) Project Candidate Site: Prioritised sites to implement construction of the borehole water supply facilities in this project.
 b) Alternative Site: In case two unsuccessful drillings are made at one site among the project candidate sites, the thrid drilling will be moved to one of the alternative sites in accordance with the priority ranking of the project in order to meet the target number of boreholes under the project. c) Excluded: The site was excluded from the targets of this project.

Ap 5-5 Cost Borne by Zambian Side related to Software-Component Programme

Activity	Description of Intervention	Cost to be Borne (ZK)	Cost Items
Activity No. 1	Orientation of the Project and Preparation of Plan of Operation for Establishment of the Operation and Maintenance System of the Project	20,244,000	Fuel costs and accommodation expenses of DWA counterpart; Allowances for D-WASHE participants
Activity No. 2	Capacity Building of D-WASHE Trainers Responsible for Training the Area Mechanics		Fuel costs and accommodation expenses of P-WASHE members; Allowances for D-WASHE participants
Activity No. 3-1)	Confirmation of Approaches and Methodologies for Village Level Activities of Sub-WASHE Members	1,225,000	Allowances for D-WASHE trainers
Activity Nos. 3-3), 4-3)	Monitoring and Evaluation of Achievements of Village Level Activities of Sub-WASHE (Extension Staff) and Area Mechanics	18,095,000	Allowances for D-WASHE task force memebers
Activity No. 4-1)	Orientation for Training to Area Mechanics on Repair and Maintenance of Borehole Facilities fitted with Handpimps	2,450,000	Allowances for D-WASHE trainers
Activity No. 5	Evaluation on Achievements and Impacts of the Interventions	7,487,000	Fuel costs and accommodation expenses of DWA counterpart; Accommodation expenses of P-WASHE members; Allowances for D-WASHE participants
	Total	54,707,000	

APPENDIX 6 REFERENCES

No.	Title	Publisher	Published Year
1	Report on the Restructuring of the Ministry of Energy and Water Development	Management Development Division, Cabinet Office	1999
2	Ministry of Local Government and Housing, Northern Province Rural Water Supply and Sanitation Project for the Year 2000 to 2002	Government Office,	2002
3	Policy Guidelines on Water Supply and Sanitation	Ireland Aid Evaluation and Audit Unit	1999
4	Operation and Maintenance System, Rural Water Supply and Sanitation Programme in Northern Province, Guiding Document	P-WASHE Task Team	2002
5	Northern Province Provincial Water, Sanitation and Hygiene Education Committee (P-WASHE), Monitoring & Evaluation Guide	P-WASHE Task Team	2003
6	Review of Irish Aid Support to the Water Sector in Zambia		1998
7	Water & Sanitation Strategic Plan 2002-2005 (Draft)	Ministry of Local Government and Housing	2002
8	Report on Health and Hygiene: Knowledge, Attitudes and Practices Survey for the Northern Province Rural Water Supply and Sanitation Programme	Participatory Assessment Group	2002