

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 m³/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 m³/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 Group | Alluvium | Sand and gravel. Mixed with viscous soil around lakes | Sand and gravel layers | | |
| | | Kalahari Formation | Fine sand and sandstone mixed with viscous soil | Sand layer | | |
| Mesozoic | Karoo 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 Group | 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. |
| | | Basement Rock | Granite, gneiss, migmatite, schist | Weathered zone, fissures, fractures | | Mainly granite distribution |
| Intrusive rock and metamorphic rock | Intrusive rock and metamorphic 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 (m ² /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 Tanganyika 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

| | |
|---|--|
|  |  |
| Ph-1 Granite with developed fissure. Chikwanda MPIKA | Ph-2 Granite (fracture zone) Kantinba CHINSALI |
|  |  |
| Ph-3 Inselberg Rmbula CHINSALI | Ph-4 Granite (massive) Nakakola NAKONDE |
|  |  |
| Ph-5 Migmatite with developed fissure. Mwenbe ISOKA | Ph-6 Quartzite (massive) Mwanktwa MPULUNGU |
|  |  |
| Ph-7 Quartz-schist with developed fissure Muswilo MPULUNGU | Ph-8 Sandstone of Muva Formation Group Mwenbe ISOKA |

Geology of Target Survey Area -2

| | |
|---|--|
|  |  |
| Ph-9 Slate with developed fissure. Musende MPULUNGU | Ph-10 Chart with developed fissure. Musende MPULUNGU |
|  |  |
| Ph-11 Shale of karroo formation group Musende MPULUNGU | Ph-12 Basalt (dike) Mwila MBALA |
|  |  |
| Ph-13 Basalt (dike) Mwanktwe MPULUNGU | Ph-14 Basalt (lava) Mwanga NAKONDE |
|  |  |
| Ph-15 Weathered Rock (laterite) Nkula CHINSALI | Ph-16 Weathered Rock (clay) Ishandulula UWINGUI |

5-1-2 Geophysical Survey

Out of the 300 requested sites, geomagnetic surveys and electrical prospectings were conducted at 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 linear 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 linear 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 resistivity 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

| District | Site | | Source | Depth of High Resistivity Layer | Depth of Median Resistivity Layer | Level Difference between Survey Point and Water Level | HES profile | | VLF Profile |
|----------|---------|----------------------------|--|---------------------------------|-----------------------------------|---|-------------|-----|-------------|
| | | | | (m) | (m - m) | (m) | 30m | 60m | |
| MPIKA | MK-02 | Chilonga | Public Tap Water | 40 | 14-40 | no data | | | — |
| | MK-04 | Mpumba Village | Hand Dug Well | 30 | 7-30 | 10 | | | — |
| | MK-05 | Lukulu Village | Stream | 0.5 | 2-10 | 1 | × | × | — |
| | MK-07 | Katongo Kapula | Stream | 0.5 | ND | 12 | × | × | — |
| | MK-09 | Chisongo Village | Public Tap Water | 1 | 12-59 | no data | | | — |
| | MK-15 | Chobera School | Hand Dug Well | 19 | 5-19 | 5.5 | | | — |
| | MK-32 | Mukungle Palace | Hand Dug Well and Borehole | 0.5 | 17-45 | about 15m | | | ○ |
| | MK-37 | Kopa Village | River | 0.5 | 2.5-42 | 7 | | | △ |
| | MK-38 | Kopa School | Hand Dug Well | -100 | 10-100 | 11.5 | | | ○ |
| CHINSALI | MK-40 | New Kamawanya | Public Tap Water | 24 | 7-24 | no data | △ | | — |
| | CH-03 | Musanya School | Scoop Hole | 26 | 8-26 | 13 | | | — |
| | CH-06 | Nambuluma Village | Hand Dug Well and Borehole | 0.5 | ND | no data | △ | × | ○ |
| | CH-14 | Sele School | Stream | 47 | 14-47 | 38 | | | ○ |
| | CH-15 | Lubuwa Village | Pond | 1 | 4-20 | 5 | | | △ |
| | CH-18 | Chibesa School | River | 1 | 5-100 | 10 | | | △ |
| | CH-19 | Mwalala School | River | 2 | 6-25 | 40 | △ | ○ | — |
| | CH-20 | Chandamali Village | 2 Hand Dug Well | -100 | -12 | 2.5 | | | — |
| | CH-21 | Katimba School | Spring | 0.1 | -38 | 37 | | | — |
| ISOKA | (CH-22) | Mundu | Borehole | 12 | 4-11 | 1.5 | | | — |
| | CH-25 | Choshi Village | Public Tap Water | 47 | 14-47 | 5 | | | — |
| | IS-01 | Wenela | River | 38 | Possibility of clay layer | 29 | | | — |
| | IS-02 | Kafwimbi C | 2 Borehole | 0.5 | 11-23 | no data | × | ○ | ○ |
| | IS-03 | Kapembe | Spring | 72 | 7-72 | 13 | | | ○ |
| | IS-05 | Mulamba | Stream | -100 | -58 (Clay down to 58m?) | 5 | | | ○ |
| | IS-19 | Mwenbe | Borehole | 3 | ND | no data | | | ○ |
| | IS-21 | Mutukumbi | Hand Dug Well | -100 | 0.5-5 (Clay layer 5-24m?) | 2.2 | | | — |
| | IS-23 | Kosamu Village | Hand Dug Well | 11 | 0-6.5 | 1.9 | | | — |
| NAKONDE | IS-26 | Thendele RHC | Hand Dug Well | 18 | 1-18 | 4 | | | — |
| | IS-29 | Chinyansi Village | Spring | 37 | 16-37 | 8 | | | — |
| | IS-37 | Namyala | Borehole | -100 | -22 | 4 | △ | △ | — |
| | NA-01 | Nakakora Village A | Spring | 20 | 1-20 | 40 | | | — |
| | NA-02 | Kaweles School | Spring | 52 | 1.2-3.2 (Clay down to 52m?) | 3 | | | — |
| | NA-08 | Mayembe Village | Borehole, Hand Dug Well and Scoop Hole | 47 | 6-45 | 3 | ○ | ○ | — |
| | NA-10 | Nachipeta Village A | Spring | 25 | 1-25 | no data | | | ○ |
| | NA-25 | Lyuchi Village | Hand Dug Well | 40 | ND (Clay down to 42m?) | 5.6 | | | × |
| | NA-26 | Musanka Village | Borehole | 38 | 2-38 | 8 | | | ○ |
| Mbala | NA-30 | Izuwa Village | Hand Dug Well | 30 | 10-30 | 11.5 | ○ | ○ | — |
| | NA-32 | Nkashichila Village | Hand Dug Well | 21 | 5-21 | 5.5 | | | ○ |
| | NA-34 | Muli Village | Spring | -100 | -52 | 30 | | | ○ |
| | NA-36 | Mwanga School | Spring | 40 | 5-40 | 6 | | | △ |
| | MB-03 | Mulunda Village | Hand Dug Well | 32 | 10-32 | 3.8 | | | — |
| | MB-10 | Musenkele Village | Borehole | 31 | 17-31 | 5 | | | △ |
| | 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 | 30 | 12-30 | 30 | △ | △ | ○ |
| Mpulungu | MB-28 | Vimbuli Village | Stream | 26 | 1-14 (Clay layer 14-26m?) | 14 | ○ | × | — |
| | MB-32 | Mwila Village | Hand Dug Well | 47 | 2-47 | 4 | | | ○ |
| | MB-46 | Kati Village | Spring | 45 | 8-45 | 22 | | | — |
| | MB-50 | Chasha Village | Stream | 25 | ND | 3 | | | ○ |
| | MB-53 | Chilesya School | Spring | 37 | 4-37 | 4 | | | — |
| | ML-06 | Chitibwa RHC | River | 3 | ND | 40 | × | × | — |
| | ML-14 | Simocha | Spring | 49 | 3-49 | 40 | | | — |
| | ML-15 | Jecap | Stream | 70 | 18-70 | 3 | | | — |
| | ML-18 | Chaulu | Stream | 26 | 6-26 | 4 | | | — |
| Luwingu | ML-20 | Muswilo | Stream | 54 | ND | 50 | × | × | — |
| | ML-21 | Kalongora | Spring | 9.5 | ND | 6 | | | ○ |
| | ML-30 | Makola | River | 52 | ND | >40 | | | ○ |
| | ML-38 | Mupata | Borehole and River | 10 | 12-25 | 6 | | | △ |
| | ML-40 | Mwanakatwe | River | 25 | 12-25 | 15 | | | — |
| | ML-42 | Musende Village | Public Tap Water, Borehole and Lake | 27 | 7-27 | — | | | △ |
| | LU-04 | Ishandulula | Hand Dug Well and Spring | 87 | ND | 3.5 | | | ○ |
| | LU-07 | Chitwa School | Spring | 15 | 0.5-15 | 6 | | | — |
| | LU-08 | Mucheleva School | Spring | 45 | 15-45 | 27 | | | — |
| Luwingu | LU-10 | Chibiliti Community School | Hand Dug Well and Scoop Hole | 25 | 13-25 | 3 | | | ○ |
| | LU-12 | Chifwile School | Spring | 28 | ND (Clay down to 28m?) | 20 | | | — |
| | LU-15 | Kandata School | Spring | 44 | 5-44 | 3 | △ | △ | × |
| | LU-20 | Chibofwe | Spring | 59 | ND (Clay down to 59m?) | 20 | | | ○ |
| | LU-28 | Lundu School | Hand Dug Well and Spring | 100 | 5-100 | 3.8 | | | △ |
| | LU-42 | Kapoma Village | Hand Dug Well and River | 64 | ND | 3 | | | ○ |
| | LU-44 | Sande Village | Hand Dug Well and Spring | 22 | ND | 2.8 | | | — |

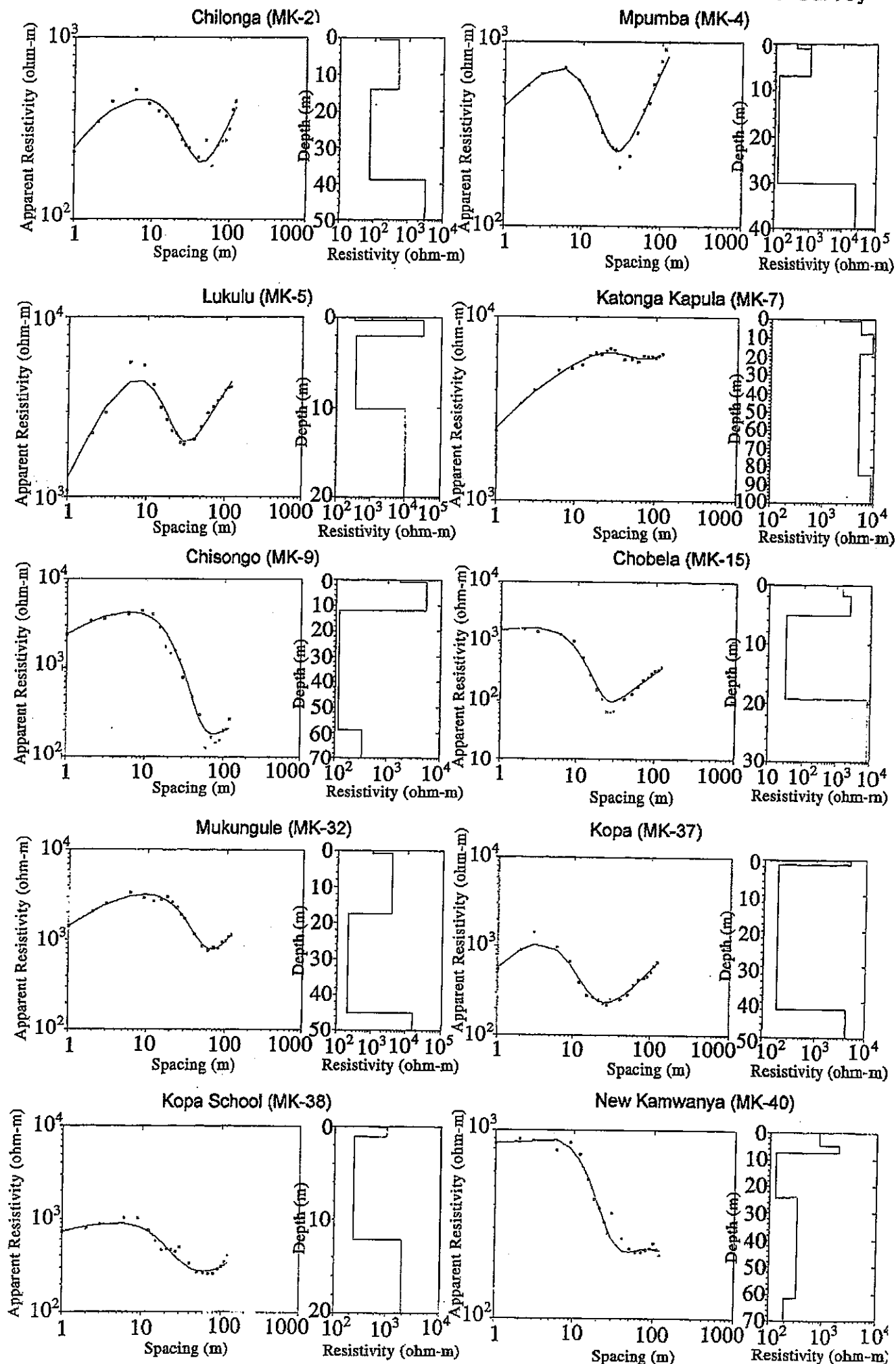
HES Profile: ○ Possibility of fissure water
 △ Possibility of developed crack or fracture zone
 × Low to median apparent resistivity layer not detected

VLF Profile: ○ High possibility of fracture zone
 △ Possibility of fracture zone
 × Change in soil condition not detected
 — Noise disturbance caused difficulty in analysis

ND: Not detected

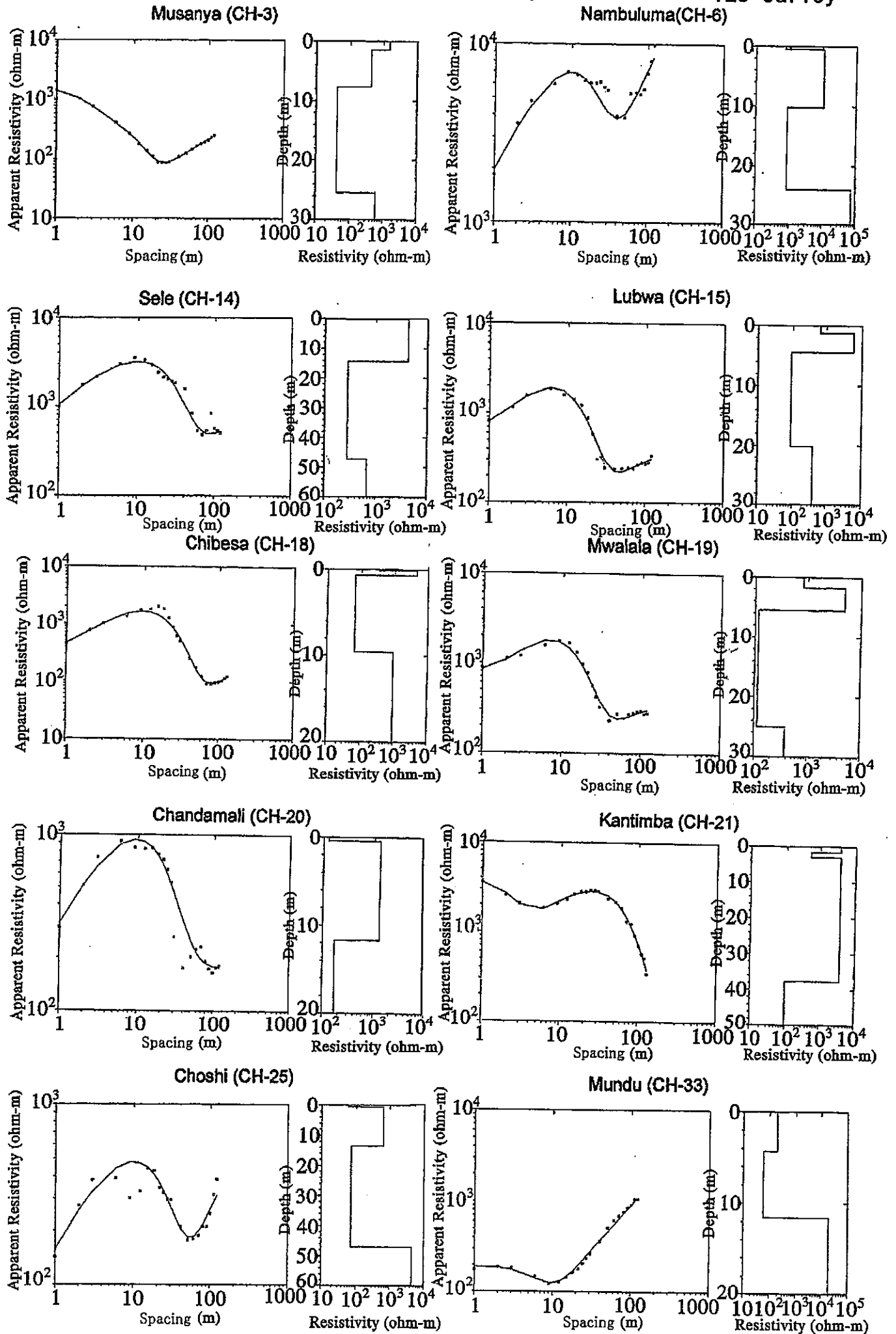
MPIKA DISTRICT

VES Survey



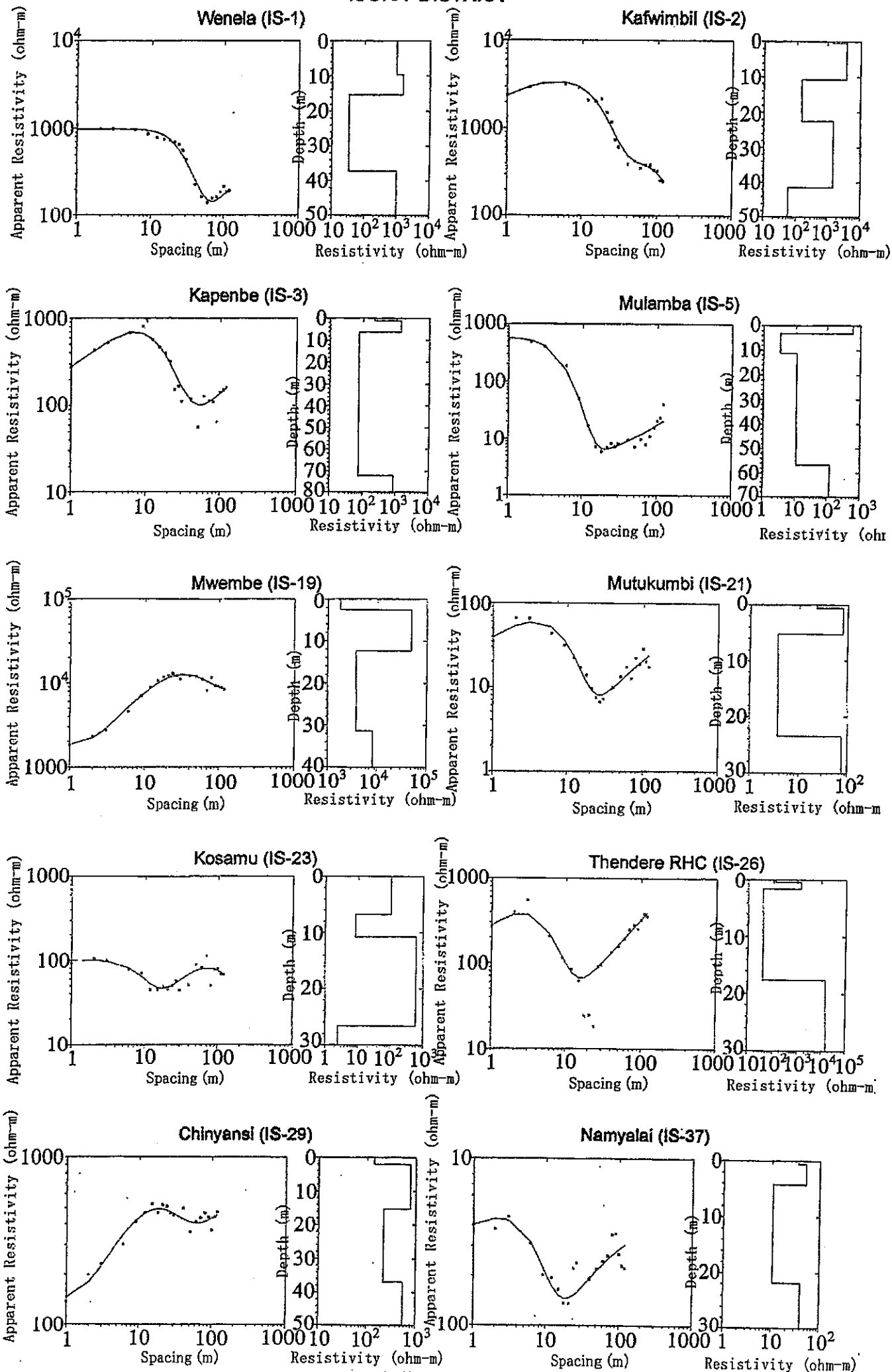
CHINSALI DISTRICT

VES Survey



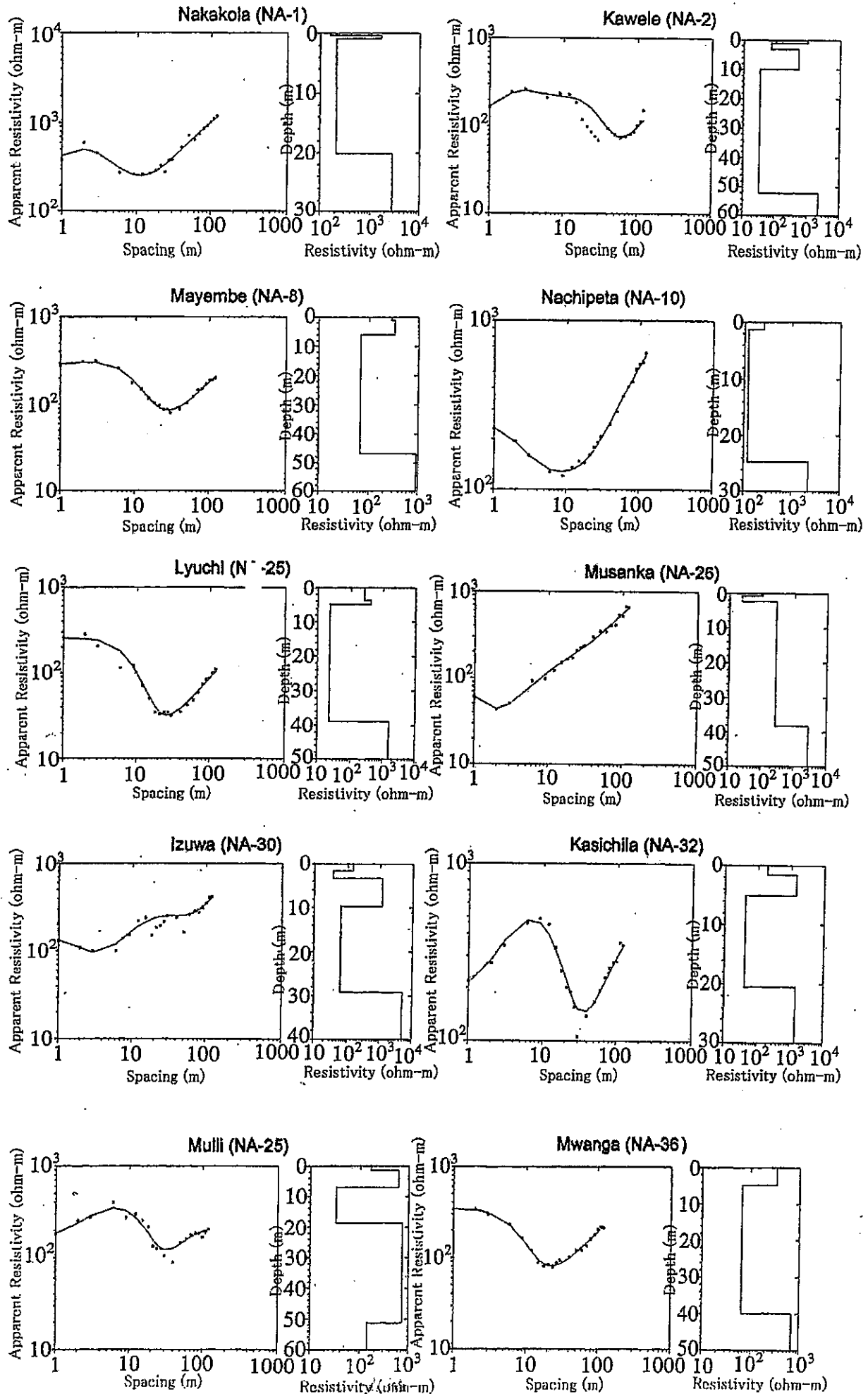
ISOKA DISTRICT

VES SURVEY



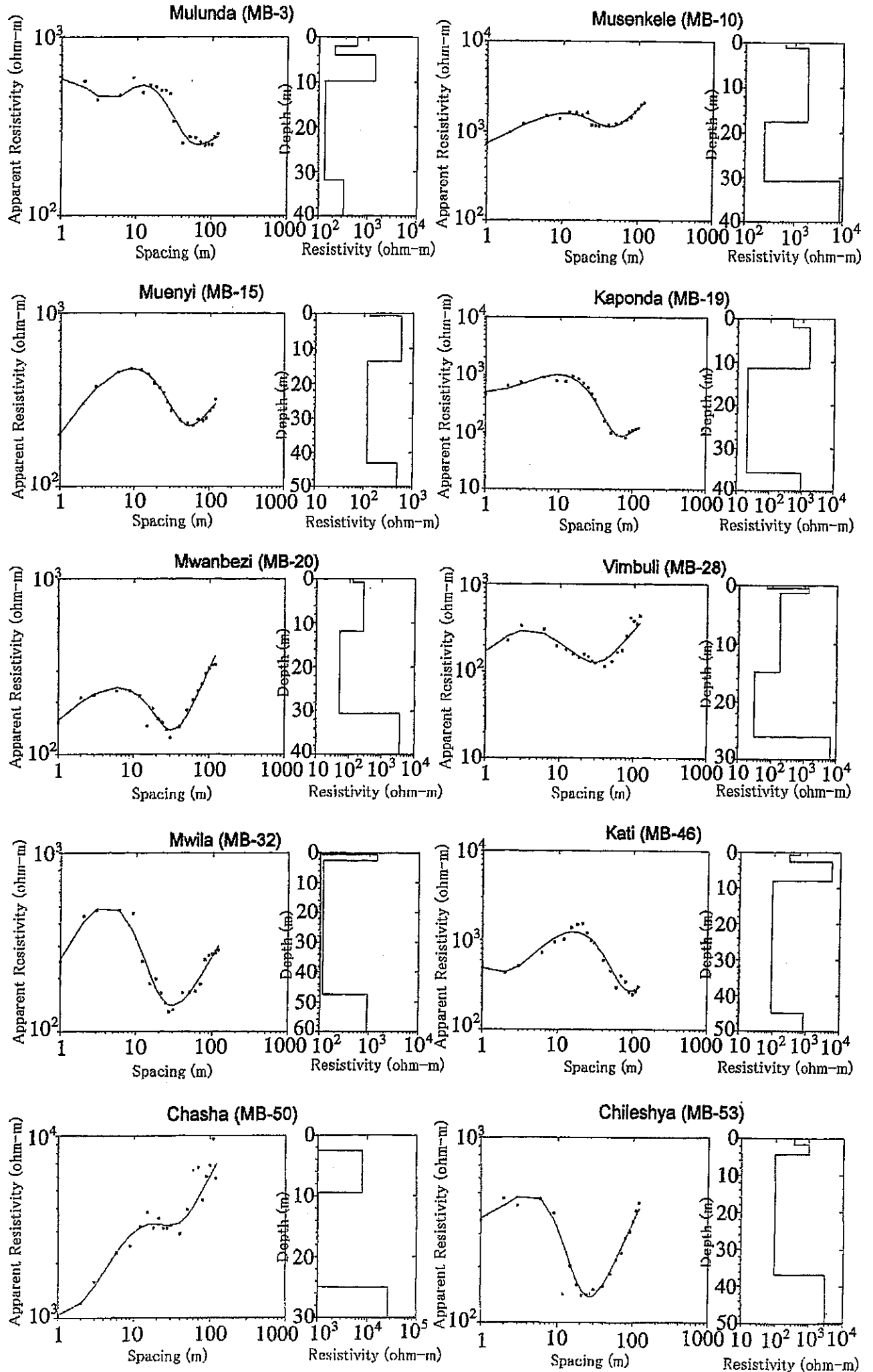
NAKONDE DISTRICT

VES Survey



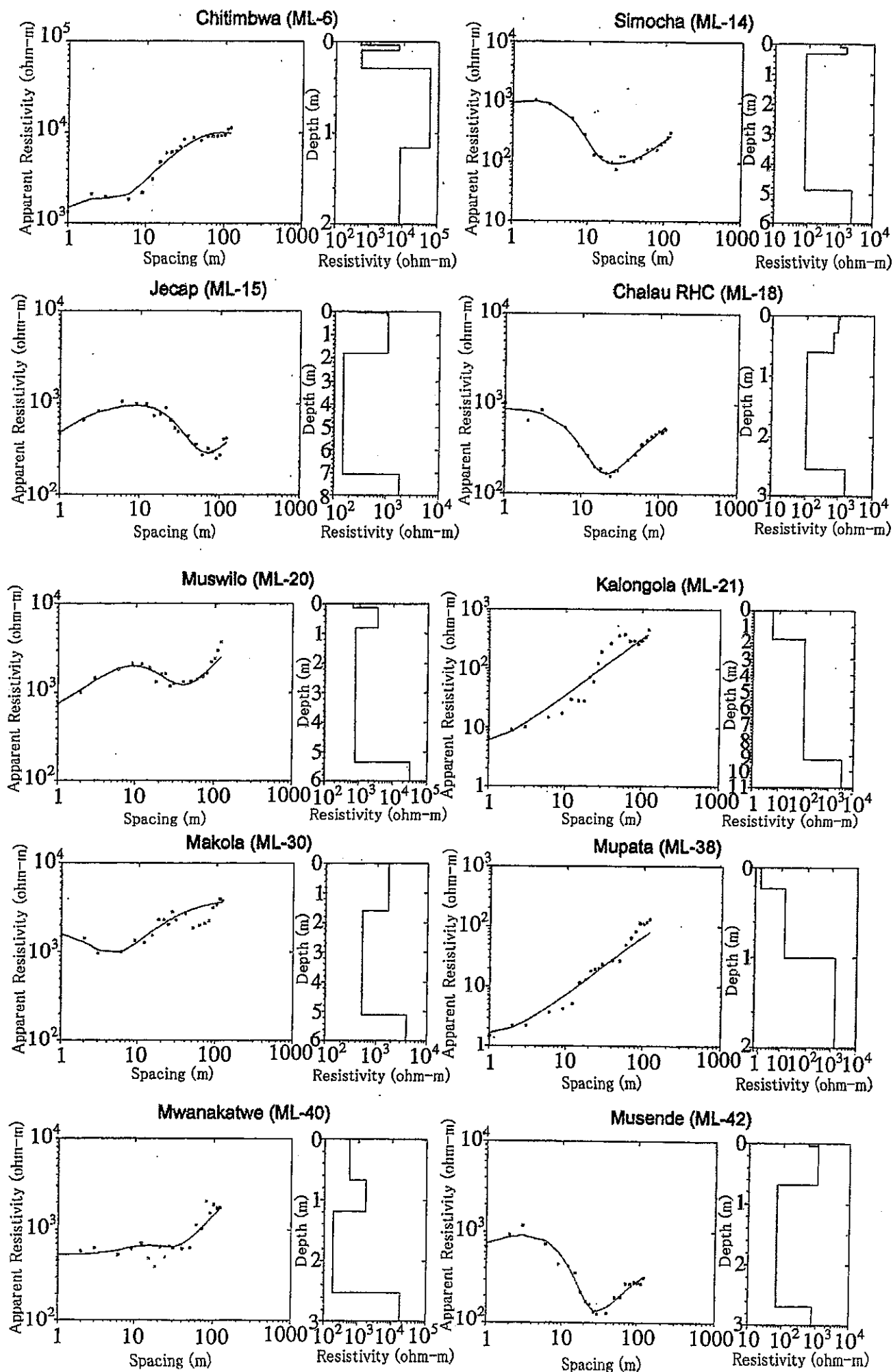
MBALA DISTRICT

VES Survey



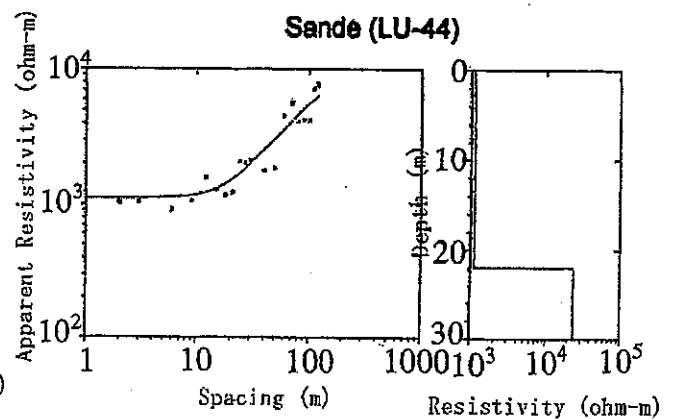
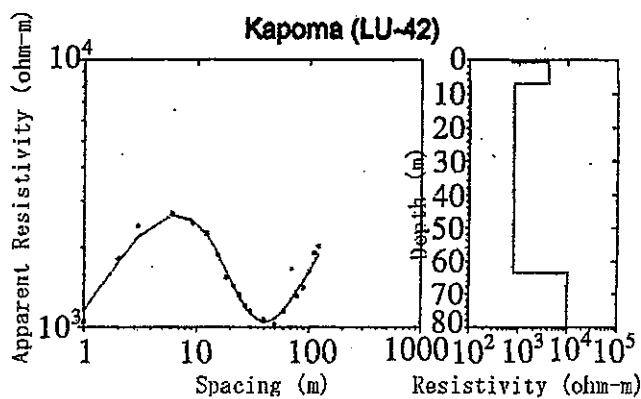
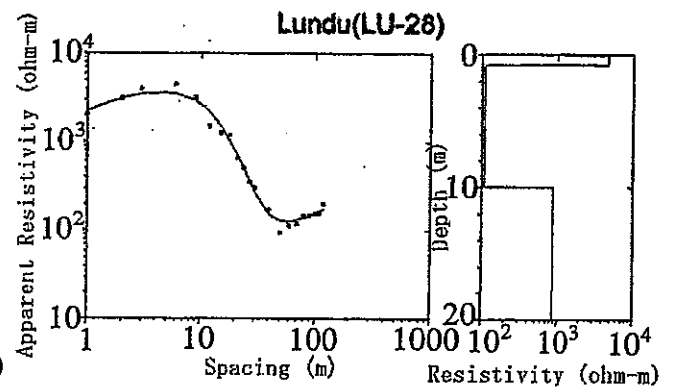
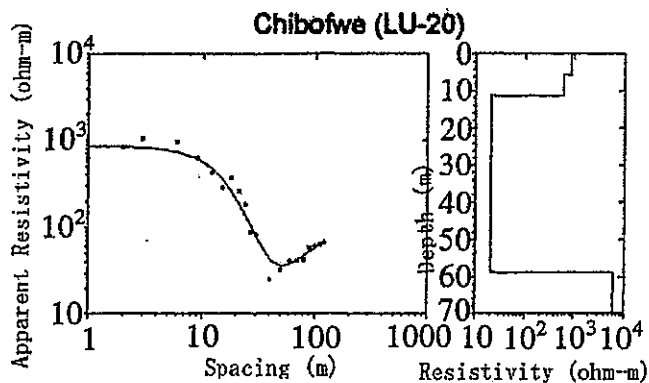
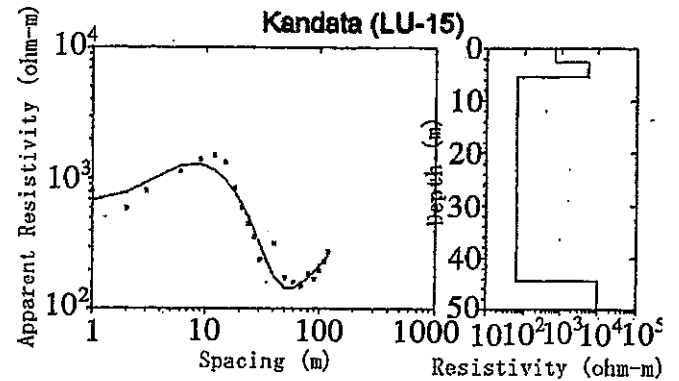
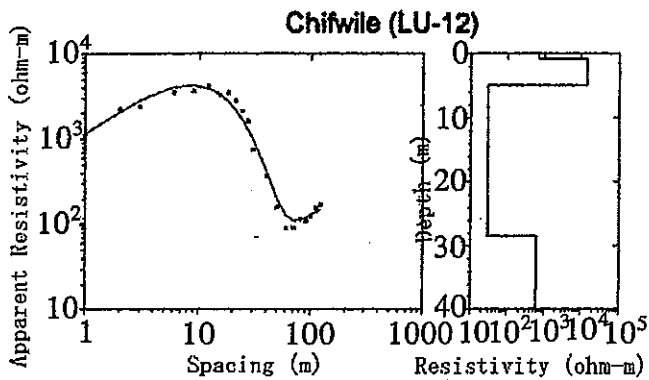
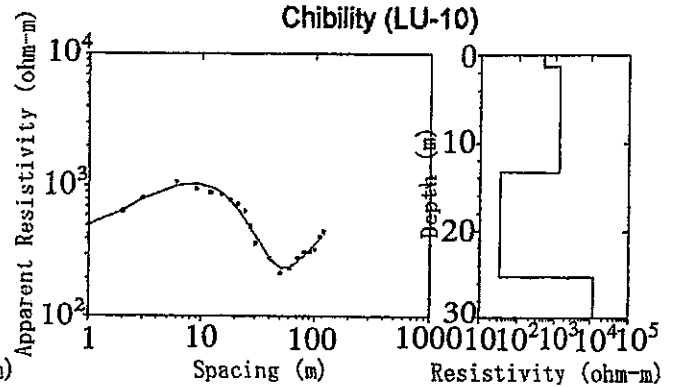
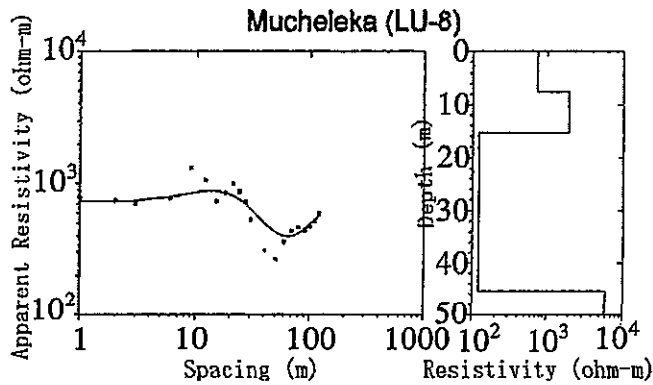
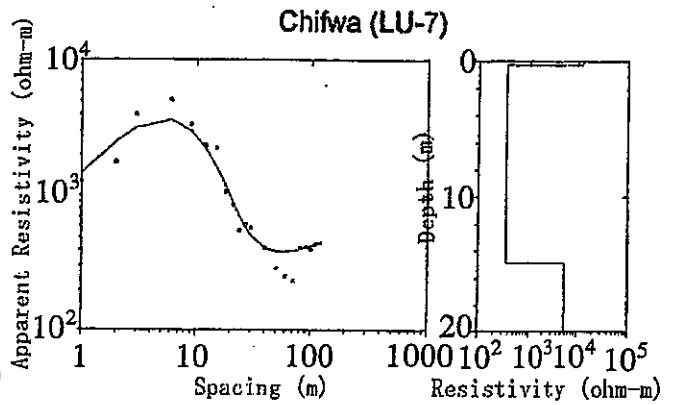
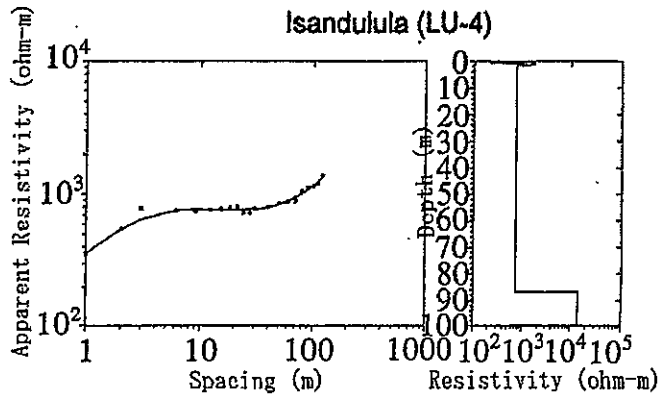
MPULUNGU DISTRICT

VES Survey

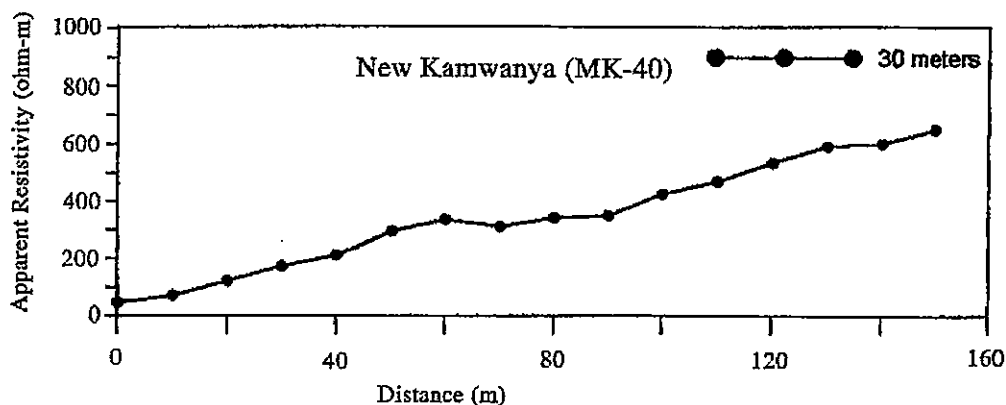
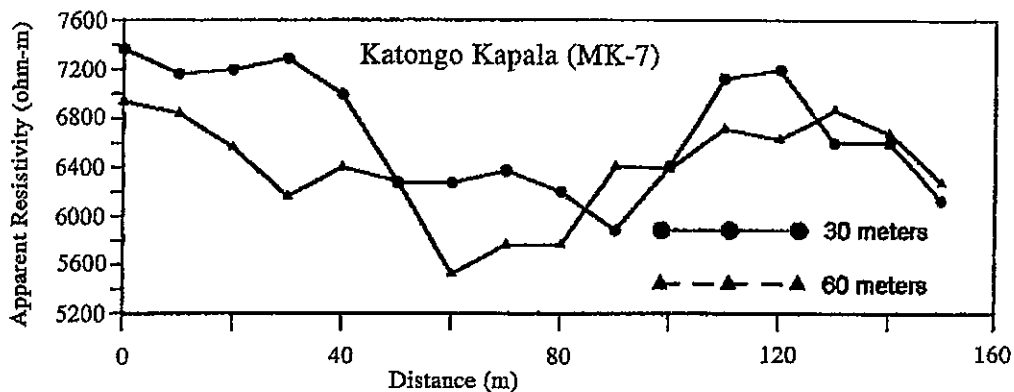
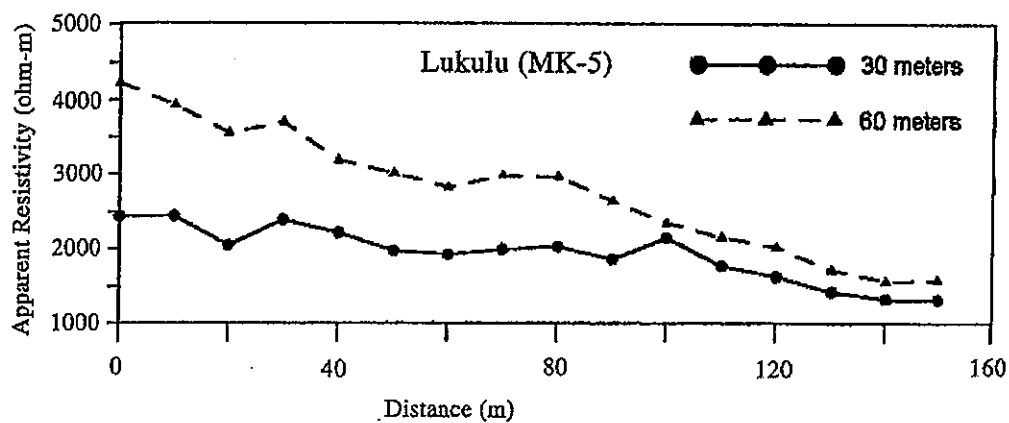


LUWINGU DISTRICT

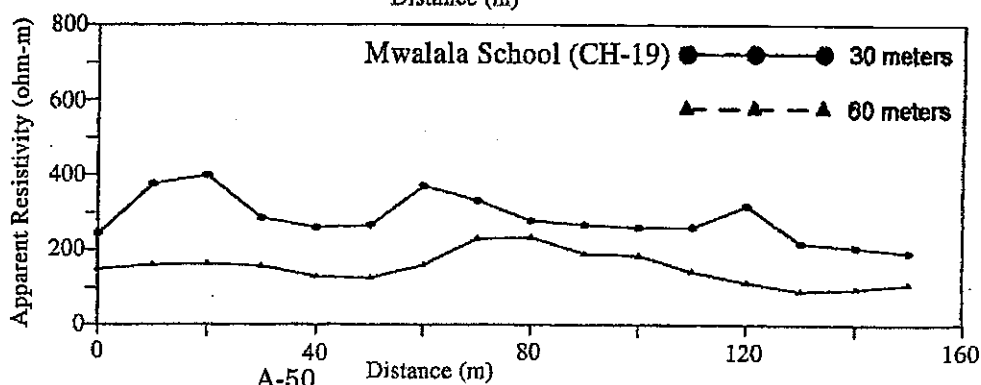
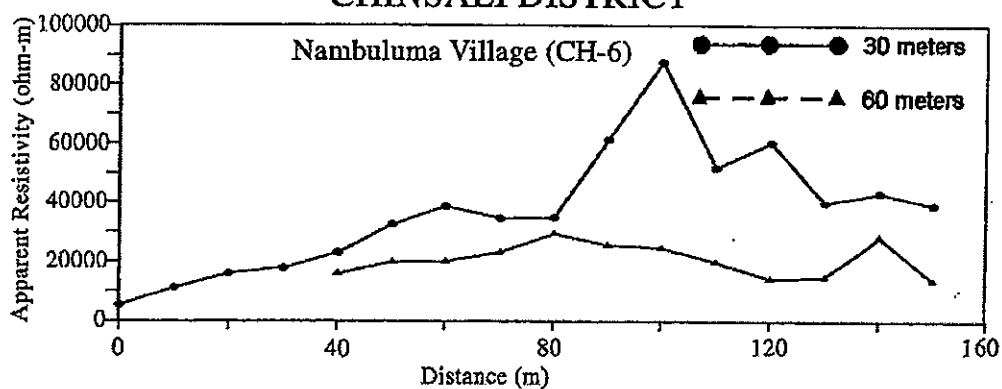
VES Survey



MPIKA DISTRICT

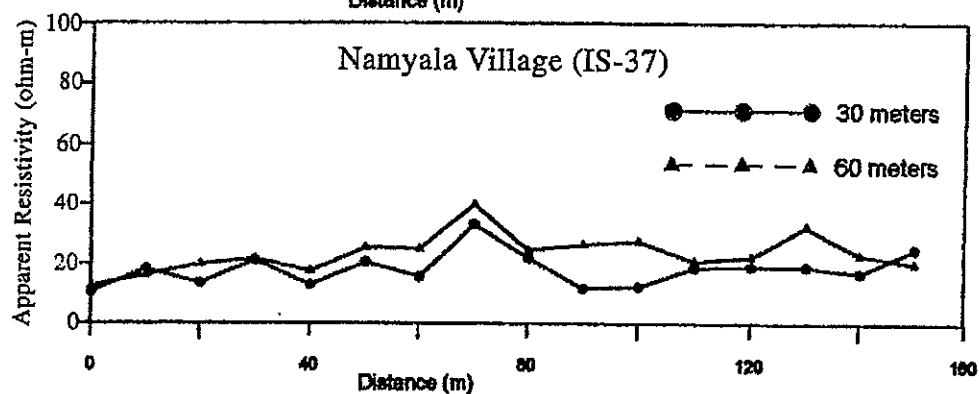
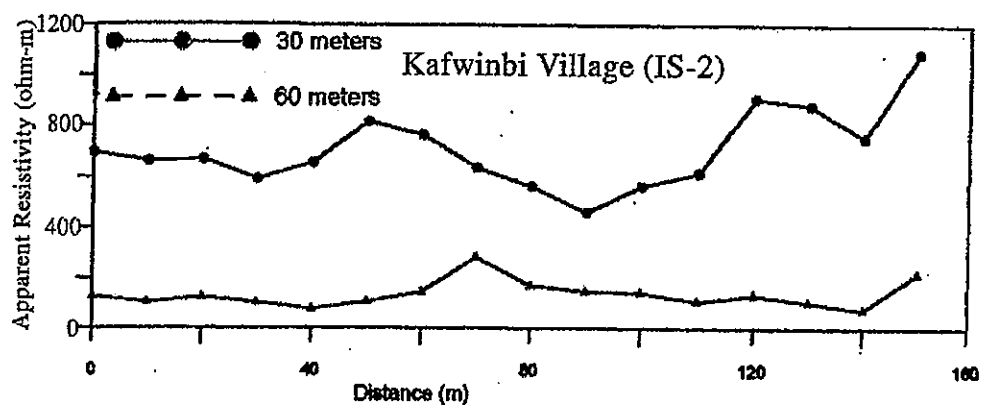


CHINSALI DISTRICT

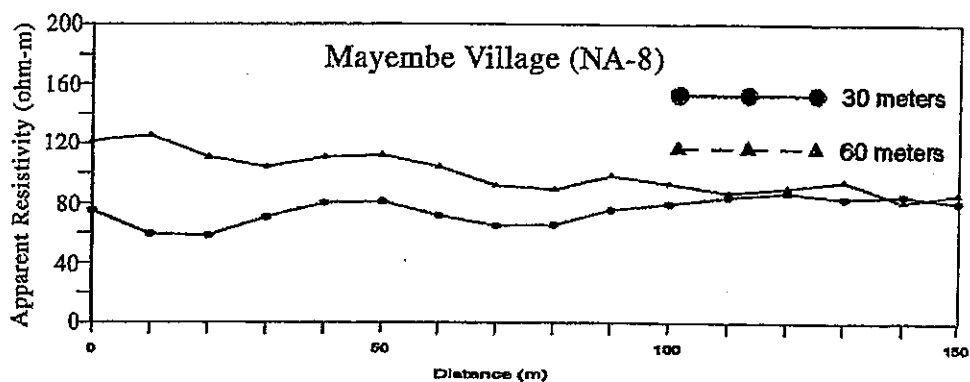
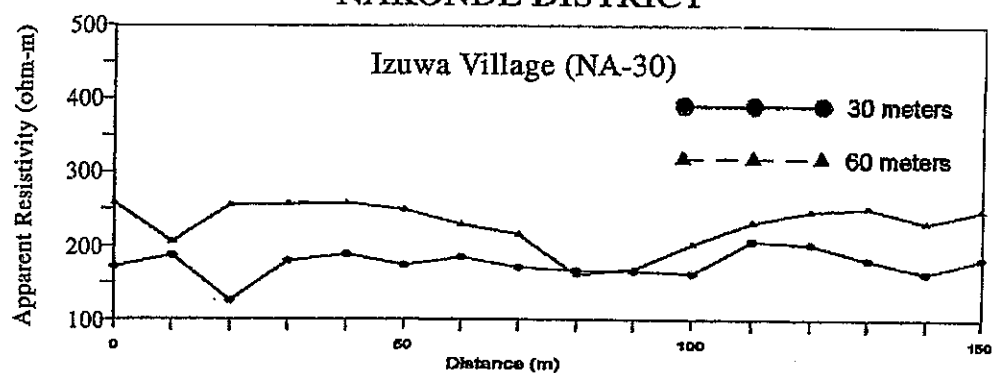


ISOKA DISTRICT

HES Survey

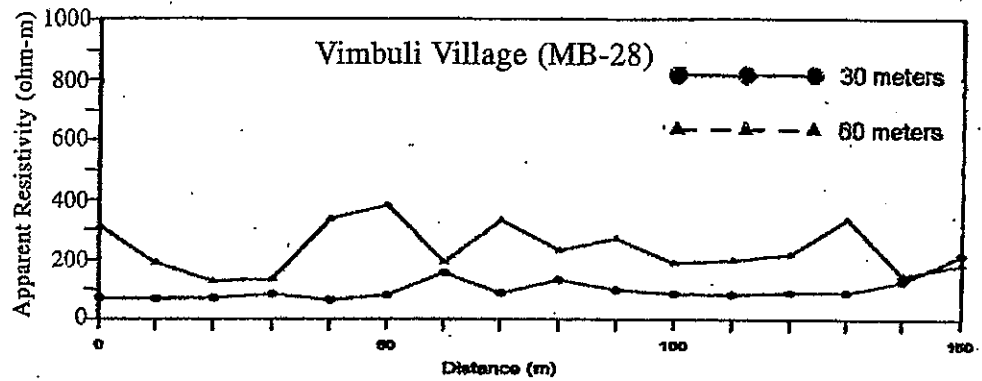
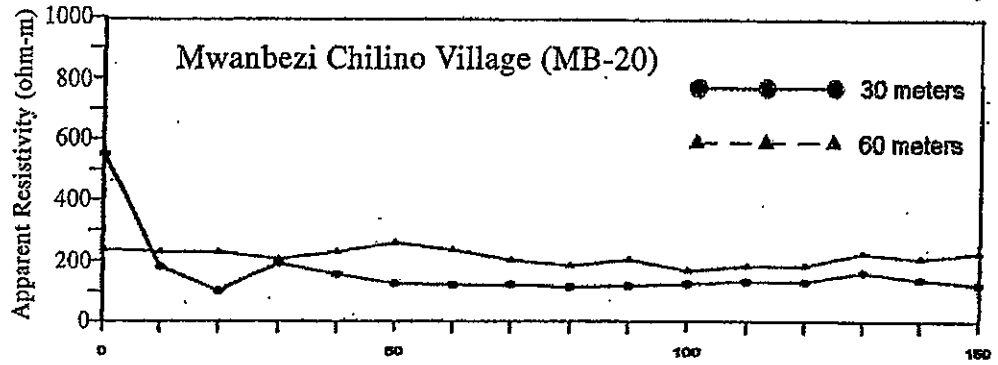


NAKONDE DISTRICT

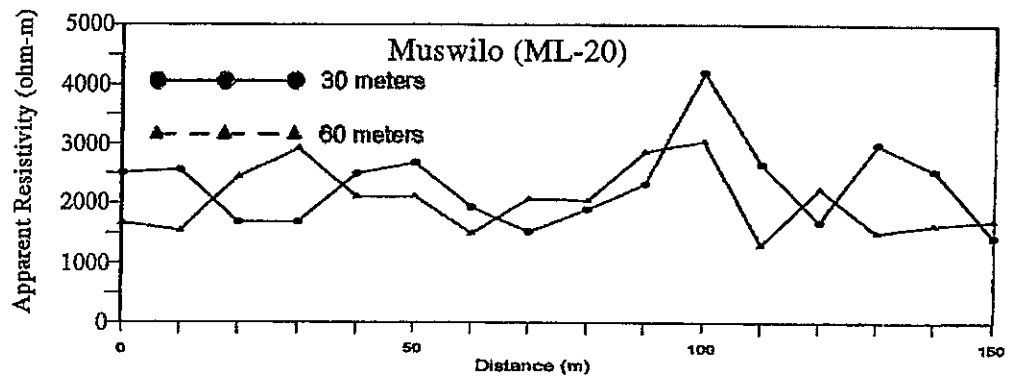
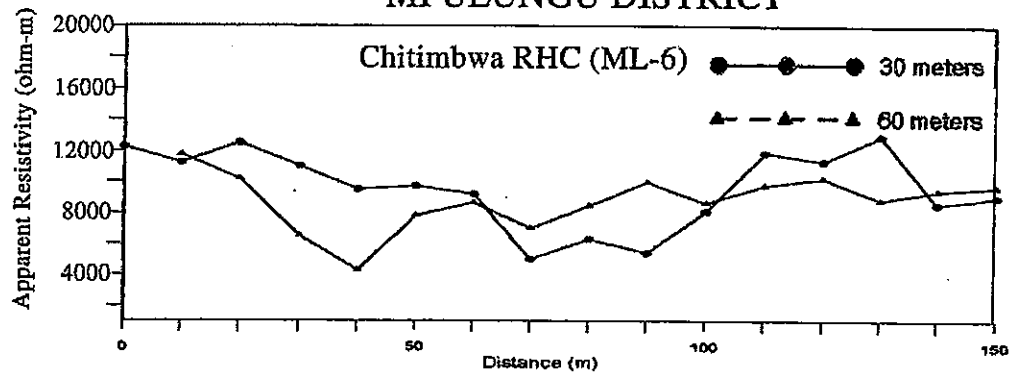


MBALA DISTRICT

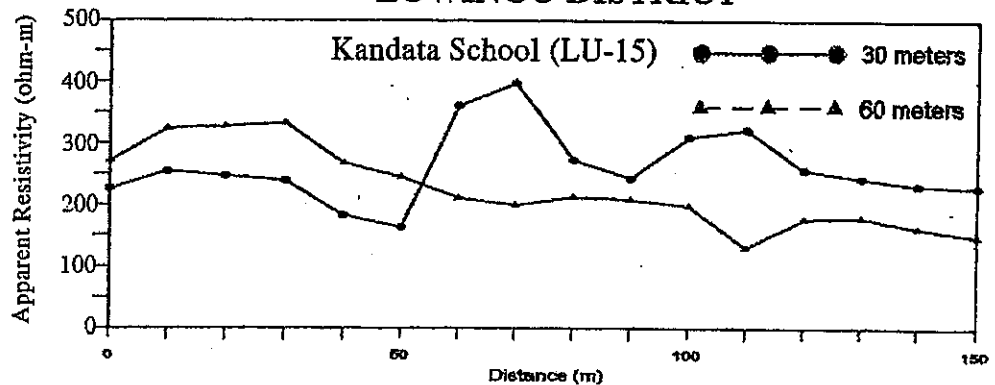
HES Survey



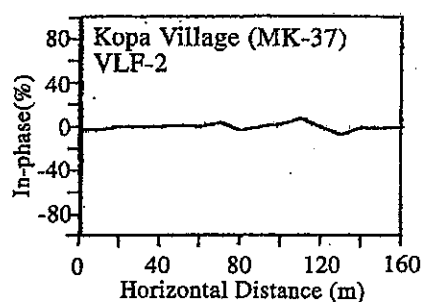
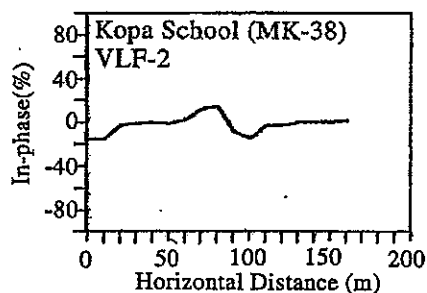
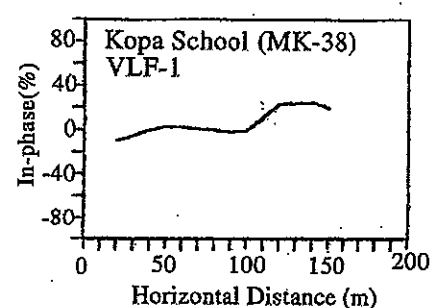
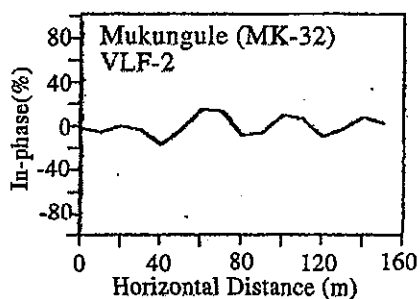
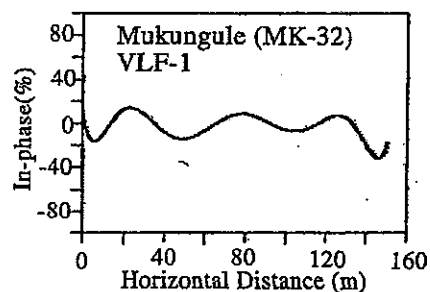
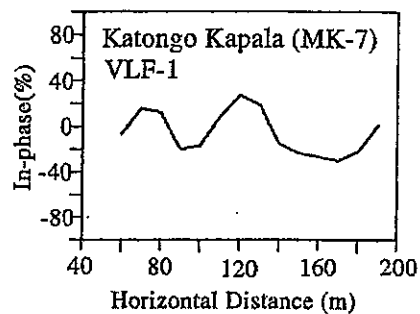
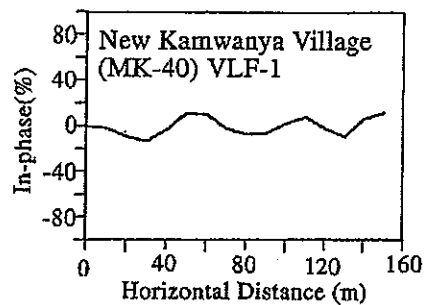
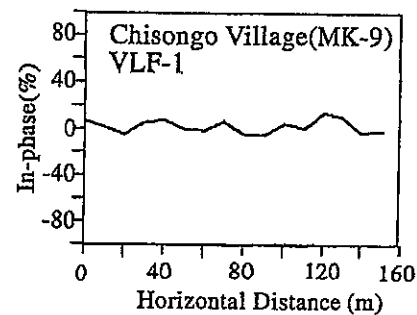
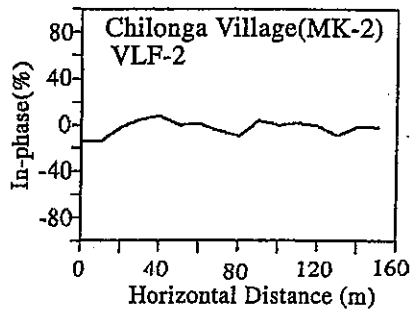
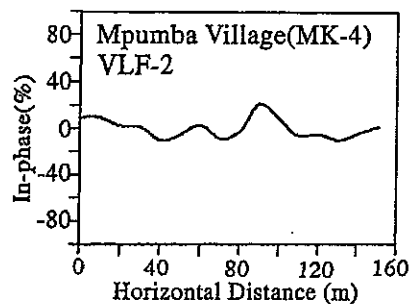
MPULUNGU DISTRICT



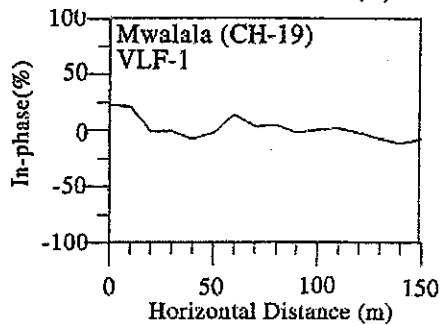
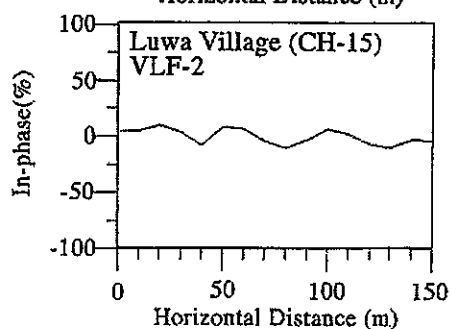
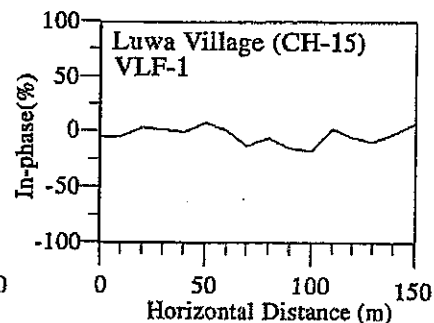
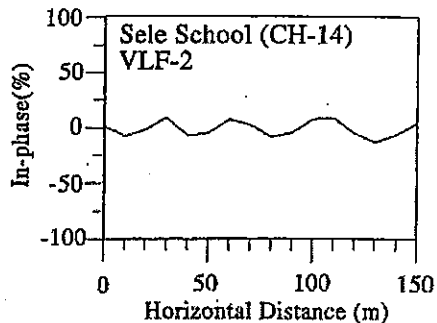
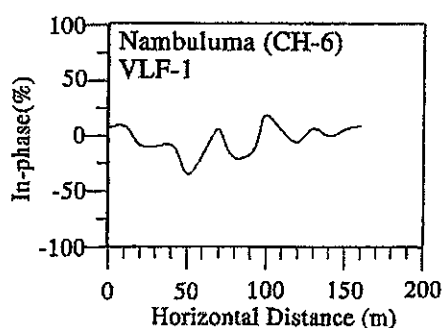
LUWINGU DISTRICT



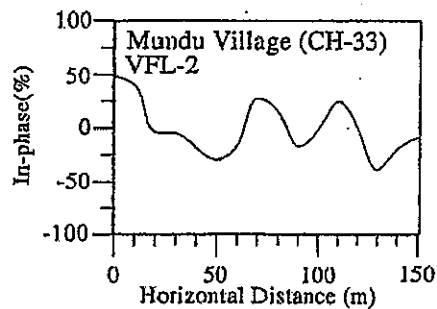
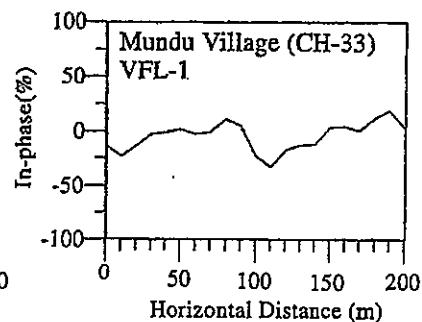
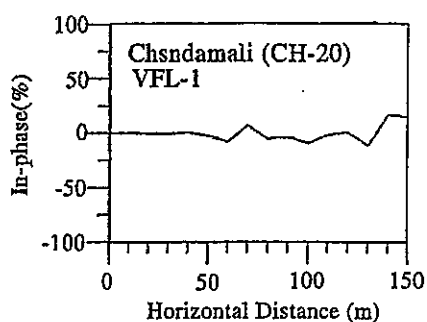
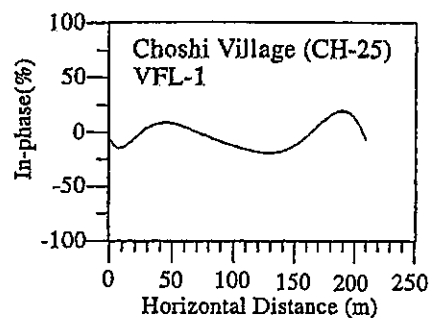
MPIKA DISTRICT



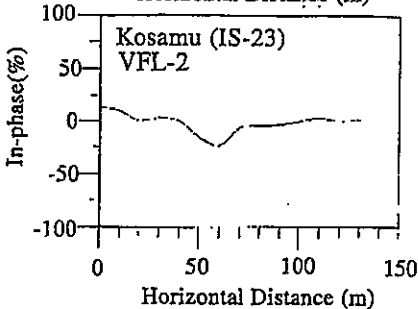
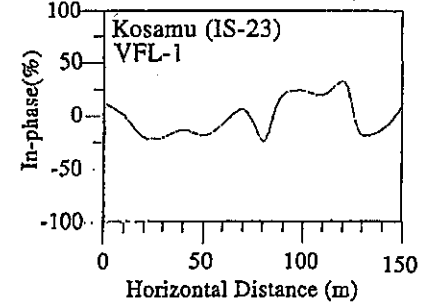
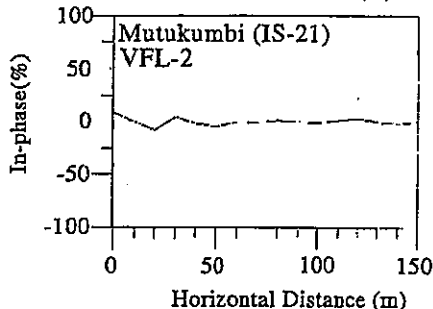
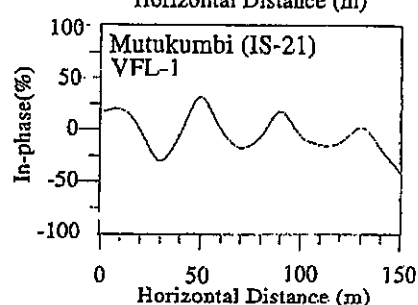
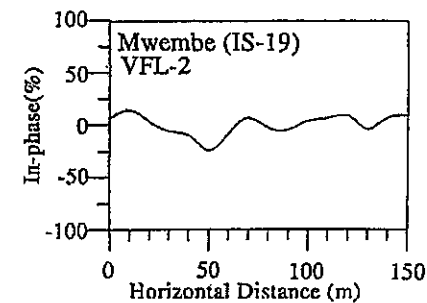
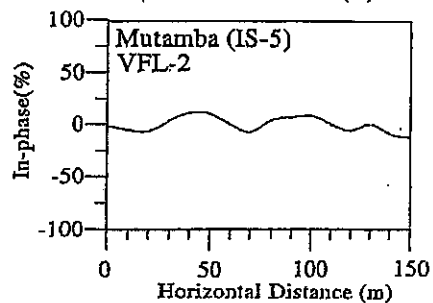
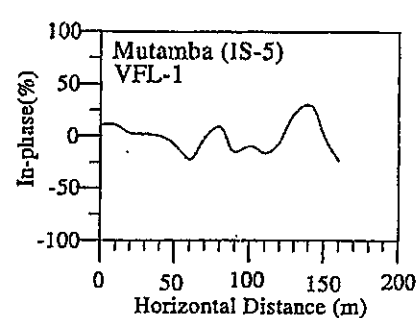
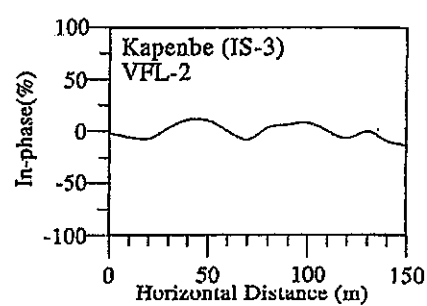
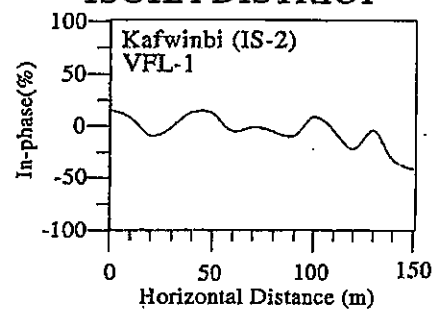
CHINSALI DISTRICT



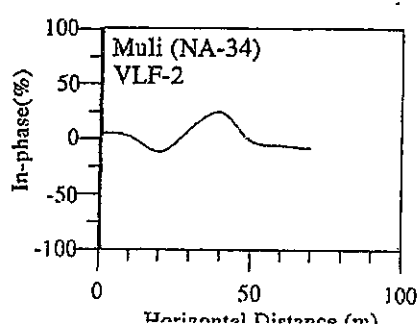
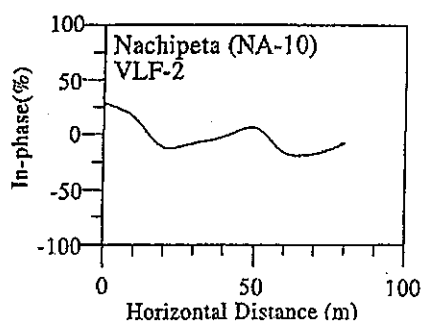
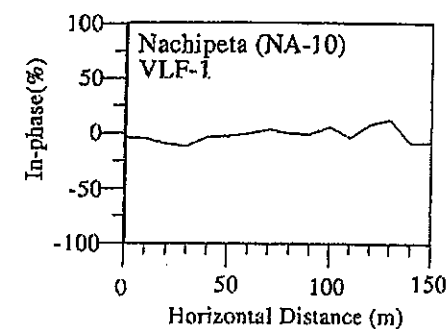
CHINSALI DISTRICT



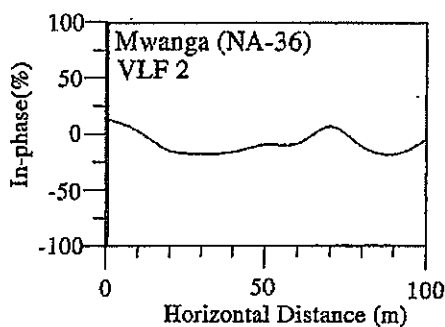
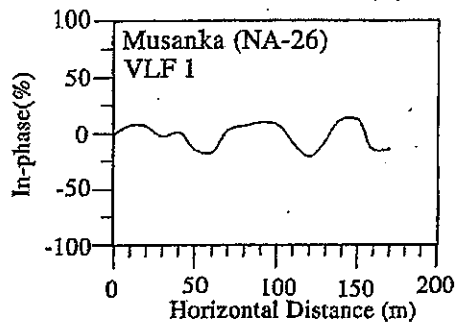
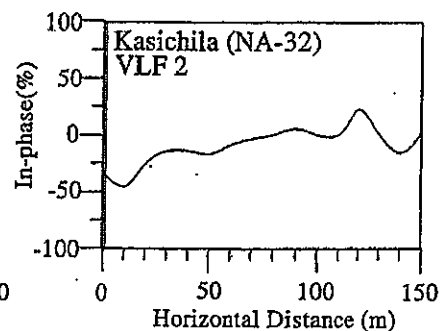
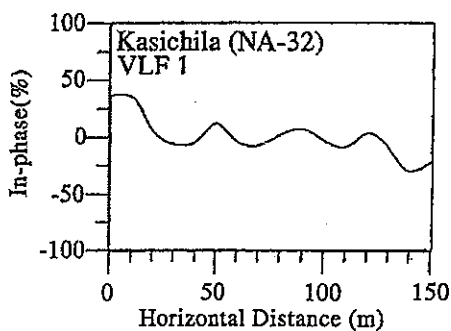
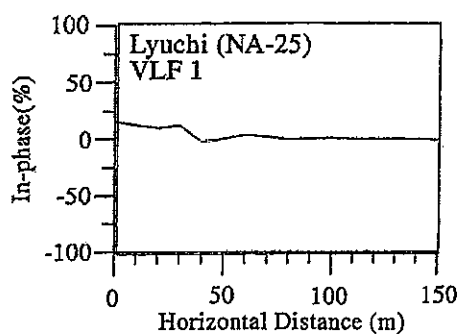
ISOKA DISTRICT



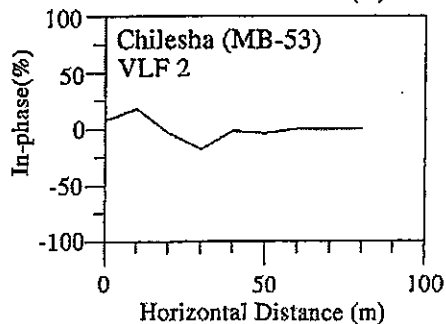
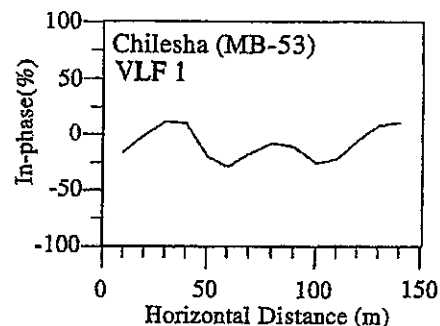
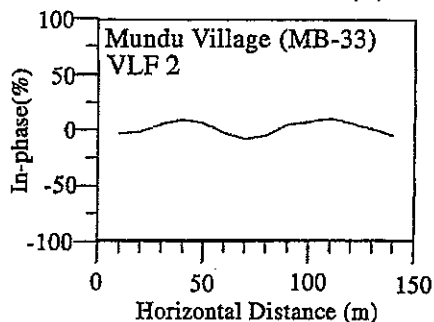
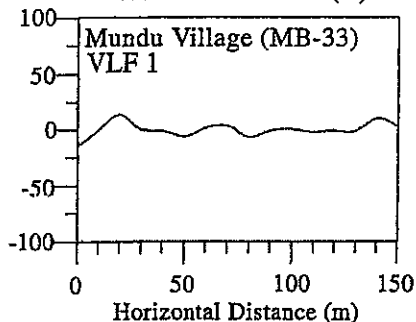
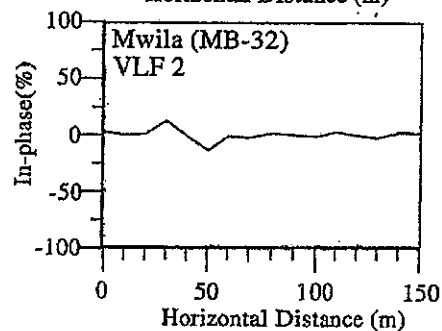
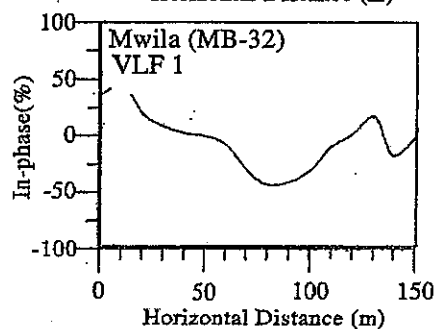
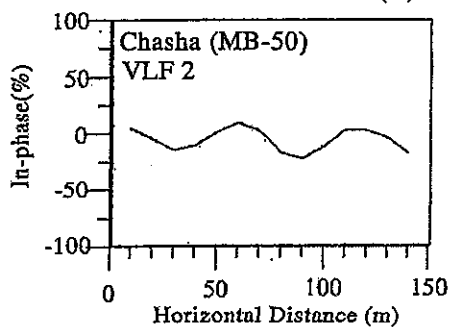
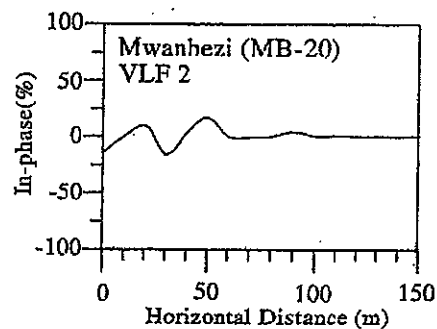
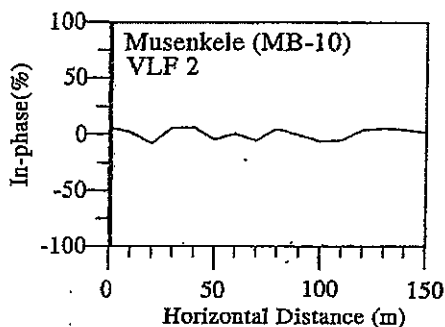
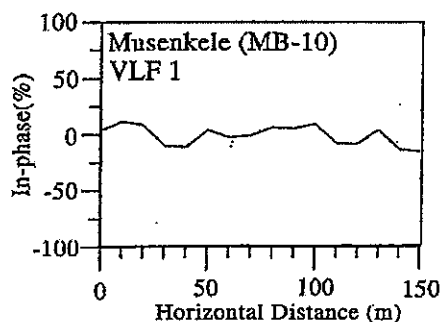
NAKONDE DISTRICT



NAKONDE DISTRICT

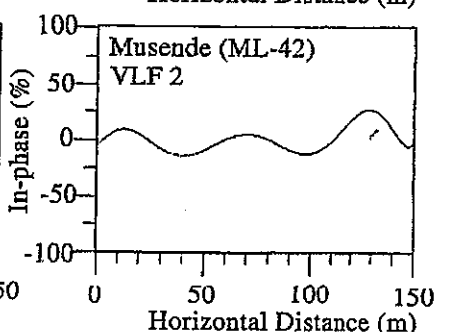
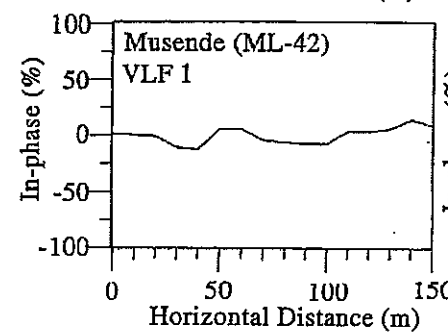
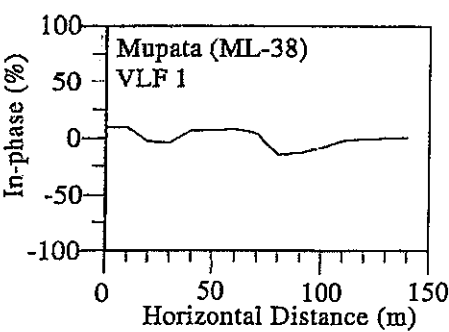
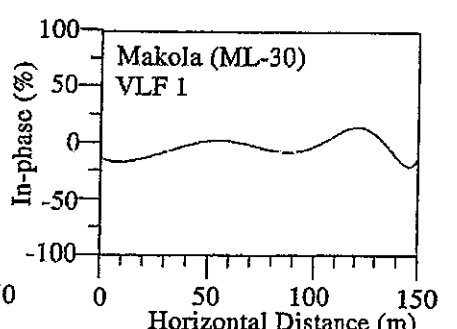
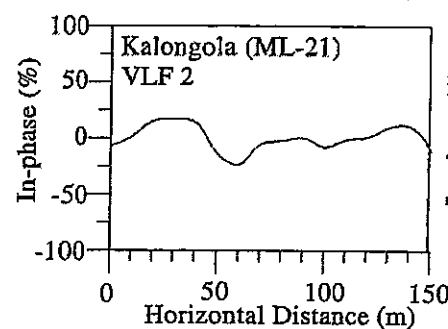
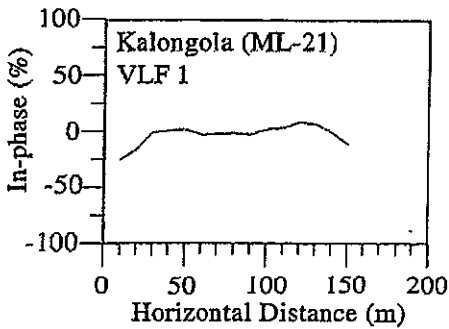
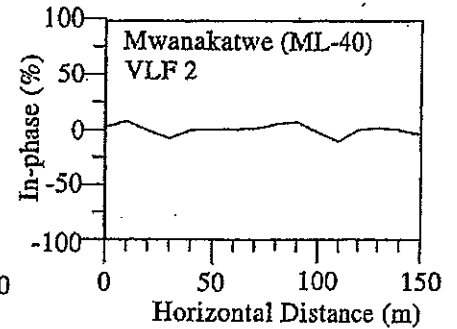
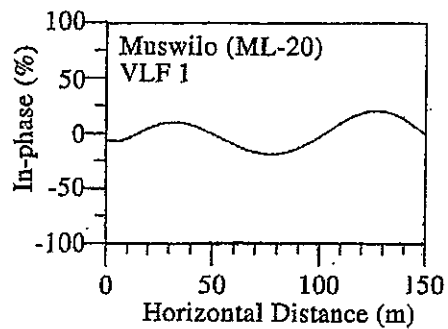
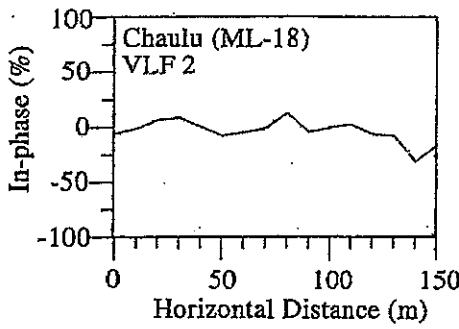
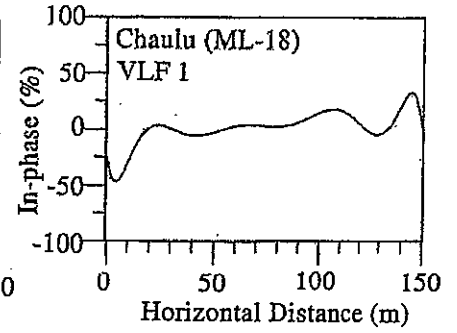
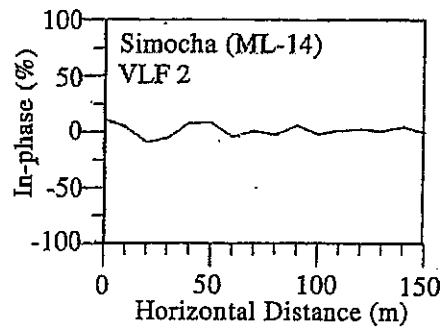
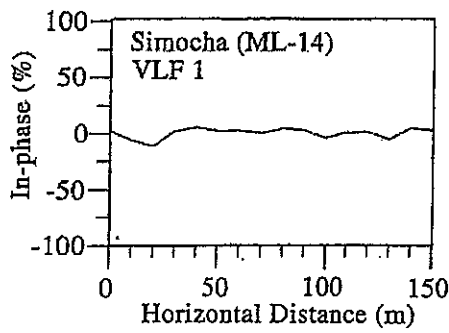


MBALA DISTRICT

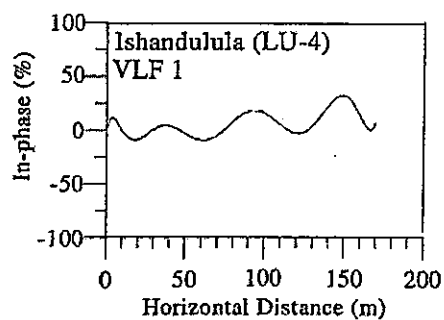
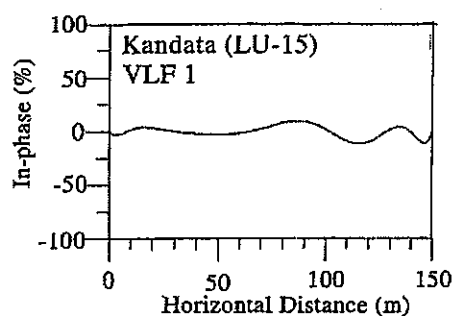
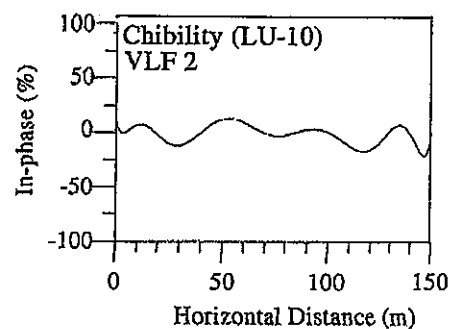
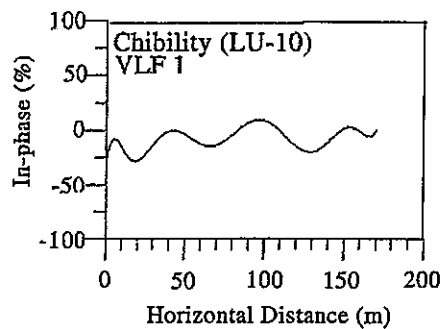
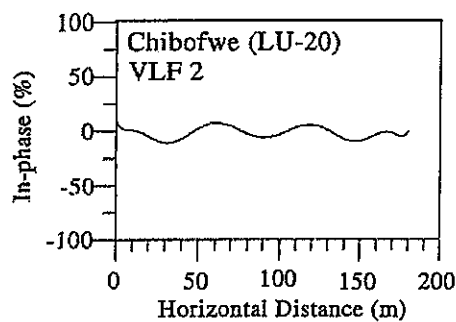
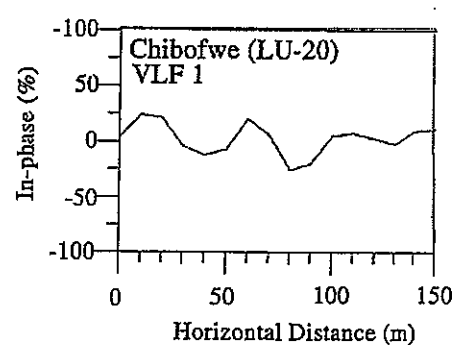
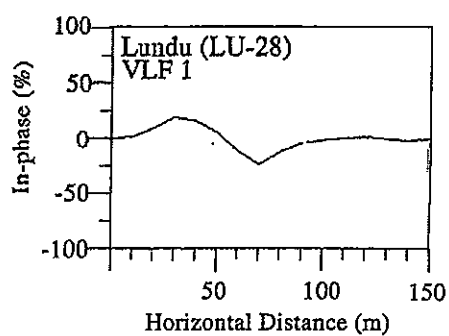
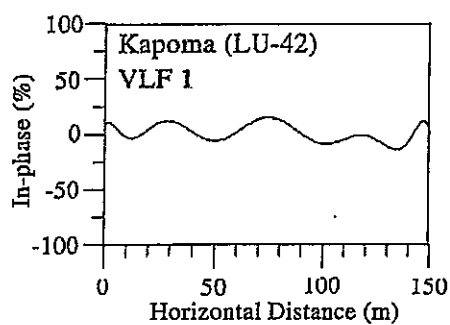


MPULUNGU DISTRICT

VLF-Survey



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 recommended 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 |
|----------------------|--------|-----------|-----------|--------------|
| pH | | 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 | | |
| 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

| District | Code No. | Site Name | Source | Taste | Odour Colour | pH | Cond. mS/m | Temp °C | Cl mg/l | Hardness mg/l | Ca mg/l | Mg mg/l | M-Alk mg/l | Acidity mg/l | Fe mg/l | Mn mg/l | Cu mg/l | B mg/l | F mg/l | NH ₄ ⁺ mg/l | NO ₃ ⁻ mg/l | COD mg/l | Coliform | |
|----------|----------|-------------------------|-------------------|----------|--------------|------|------------|---------|---------|---------------|---------|---------|------------|--------------|---------|---------|---------|--------|--------|-----------------------------------|-----------------------------------|----------|----------|---|
| Mpika | | Polito | Borehole | Rusty | Rusty | 6.0 | 94 | 24.3 | 0 | 75 | 25 | 5 | 55 | 175 | 6.1 | 0.2 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 50 | - | |
| | | Danger Hill School | Borehole | Rusty | Rusty | 6.6 | 175 | 23.0 | | | | | | | 4.6 | 0.5 | | | 0.4 | | | | | |
| | | Malamba School | Borehole | Good | None | 5.9 | 67 | 23.0 | | | | | | | | 0.8 | 0.1 | | | 0.0 | | | | |
| | | Mweng | Borehole | Rusty | Rusty | 6.0 | 242 | 27.0 | 0 | 70 | 20 | 5 | 120 | 100 | >6.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.2 | 0.0 | 0.0 | 10 | + |
| | | Chibaye | Borehole | Rusty | Rusty | 6.2 | 129 | 25.6 | 0 | 50 | - | - | 25 | 95 | >6.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | - |
| | | Chibaye Village North | Borehole | Rusty | Rusty | 6.0 | 88 | 23.2 | | | | | | | | 6.0 | 0.5 | | | | | | | |
| | | Chibaye Basic School | Borehole | Rusty | Rusty | 6.6 | 46 | 25.8 | 0 | 45 | 15 | 0 | 20 | 60 | 5.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.2 | 1.0 | 0.0 | 5 | - |
| | | Mukungile RHC | Borehole | Rusty | Rusty | 6.5 | 91 | 23.5 | 0 | 55 | 20 | 0 | 30 | 55 | >6.0 | 0.0 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | - |
| | (MK-10) | Mukungile School | Borehole | Good | None | 6.5 | 173 | 23.4 | | | | | | | | 0.0 | 0.0 | | 0.4 | | | | | |
| | Chinsali | | Chinsali Hospital | Borehole | Good | None | 6.0 | 39 | 26.4 | 0 | 25 | 10 | 0 | 10 | 10 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 | 1.0 | 0.0 | 50 | - |
| | | Ofu | Borehole | Good | None | 6.0 | 37 | 21.5 | 0 | 40 | 25 | 0 | 50 | 70 | 0.0 | 0.0 | - | - | 0.0 | 0.0 | 0.0 | - | - | |
| | | Kapwepwe Basic School | Borehole | Good | None | 6.2 | 88 | 22.0 | 0 | 60 | 25 | 0 | 40 | 170 | 0.0 | 0.0 | - | - | 0.0 | 0.5 | 0.0 | 0.0 | - | |
| CH-23 | | Matumbo | Borehole | Rusty | Rusty | 6.0 | 112 | 24.9 | | | | | | | 4.2 | 0.1 | | | 0.4 | | | | | |
| | | Kapwepbe School | Borehole | Good | None | 6.0 | 73 | 24.7 | | | | | | | 1.0 | 0.0 | | | 0.0 | | | | | |
| CH-6 | | Nambuluma Village | Borehole | Good | None | 5.8 | 67 | 23.4 | 0 | 40 | 15 | 0 | 15 | 100 | 0.2 | 0.0 | - | - | 0.0 | 0.0 | 0.0 | - | - | |
| CH-22 | | Mundu | Borehole | Good | None | 7.4 | 202 | 25.0 | 0 | 360 | 150 | 0 | 160 | 40 | 0.5 | 0.0 | 0.5 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 20 | - |
| 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 | Borehole | Good | None | 6.0 | 101 | 27.3 | 0 | 55 | 20 | 0 | 50 | 140 | 0.0 | 0.0 | - | - | 0.0 | 1.0 | 2.0 | 0.5 | - | |
| | | Malango | Borehole | Rusty | Rusty | 5.8 | 74 | 23.9 | 0 | 75 | - | 0 | 40 | 30 | 4.5 | 0.2 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 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 | Borehole | Rusty | Rusty | 5.8 | 37 | 25.9 | 0 | 105 | 40 | 0 | 30 | 35 | >6.0 | 0.1 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 10 | - |
| | | Kafwimbi Village | Borehole | Rusty | Rusty | 5.9 | 58 | 25.3 | 0 | 45 | 15 | 0 | 55 | 15 | 4.5 | 0.0 | 0.0 | 0.0 | 0.8 | 0.4 | 10.0 | 0.0 | 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 | - |
| IS-37 | | Namyala | Borehole | Good | None | 5.9 | 86 | 27.2 | 0 | 290 | 100 | 15 | 190 | 70 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 5 | + |
| | | Nindi Basic School | Borehole | Rusty | Rusty | 6.4 | 100 | 25.2 | 0 | 50 | 20 | 0 | 45 | 75 | 2.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0 | - |
| | | Iloila | Borehole | Good | None | 6.0 | 126 | 23.9 | 0 | 80 | 30 | 0 | 65 | 90 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + | |
| | | Nleko Basic School | Borehole | Rusty | Rusty | 6.0 | 151 | 25.4 | 0 | 90 | 35 | 0 | 105 | 120 | 5.0 | 0.1 | 0.0 | 0.0 | 0.2 | 2.0 | 0.0 | 5 | - | |
| | | Chitamba Primary School | Borehole | Good | None | 6.6 | 72 | 23.0 | 0 | 35 | 15 | 0 | 45 | 130 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 10 | - |
| | | Mulizye | Borehole1 | Rusty | Rusty | 6.6 | 20 | 22.5 | | | | | | | 5.0 | 0.3 | | | 0.0 | | | | | |
| | | Borehole2 | Borehole2 | Rusty | None | 6.6 | 20 | 23.4 | | | | | | | 0.5 | 0.0 | | | 0.0 | | | | | |
| NA-8 | | Mayembe Village | Borehole | Good | None | 6.0 | 62 | 28.3 | 0 | 20 | 5 | 0 | 25 | 60 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 5 | + |
| NA-26 | | Musanka Village | Borehole | Good | None | 6.4 | 32 | 26.8 | 0 | 40 | 15 | 0 | 65 | 75 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 10.0 | 0.2 | 5 | + |
| | | Borehole | 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 | Borehole | Rusty | None | 5.8 | 71 | 20.9 | 0 | 40 | 15 | 0 | 30 | 45 | 1.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | - |
| | | Mbala Central | Borehole | Good | None | 6.0 | 161 | 23.9 | 0 | 95 | 35 | 0 | 90 | 30 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + |
| | | Maiteneke Village | Borehole | Rusty | Rusty | 6.7 | 202 | 20.0 | | | | | | | 3.5 | 0.2 | | | 0.8 | | | | | |
| MB-10 | | Musenkele Village | Borehole | Rusty | Rusty | 6.7 | 79 | 24.2 | 0 | 45 | 15 | 0 | 65 | 125 | 2.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0 | - |
| | | Mwambe | Borehole | Good | None | 5.8 | 49 | 25.3 | | | | | | | 0.1 | 0.0 | | | 0.0 | | | | | |
| ML-38 | | Mupata | Borehole | Good | None | 6.8 | 43 | 28.3 | 0 | 205 | 70 | 10 | 230 | 80 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + |
| ML-42 | | Musende Village | Borehole | Rusty | Rusty | 6.7 | 42 | 24.4 | 0 | 305 | 100 | 5 | 250 | 140 | 2.5 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | - |
| | | Luwingu High School | Borehole | Good | None | 6.0 | 22 | 22.1 | 0 | 20 | 5 | 0 | 15 | 5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | - |
| | | Nsombo School | Borehole | Rusty | Rusty | 6.0 | 28 | 24.8 | 0 | 45 | 15 | 0 | 25 | 75 | >6.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.2 | 0.0 | 0.0 | 10 | - |
| | | Makalongo School | Borehole | Rusty | Rusty | 6.0 | 65 | 22.0 | | | | | | | 4.5 | 0.2 | | | 0.0 | | | | | |
| | | Borehole1 | Borehole1 | Rusty | Rusty | 6.0 | 67 | 23.2 | | | | | | | 4.0 | 0.2 | | | 0.0 | | | | | |
| | | Menga School | Borehole2 | Rusty | Rusty | 6.4 | 119 | 22.0 | | | | | | | 4.0 | 0.5 | | | 0.4 | | | | | |
| Kasama | | Provincial DWA | Borehole | Rusty | Rusty | 6.8 | 12 | 25.0 | | | | | | | 4.5 | | | | | | | | | |

| | | | | | | | | | | |
|--|--------|---------|------|--------|-----|-----|-----|-----|-----|-----|
| Water Quality Standards for Drinking Water | Zambia | 6.5-8.0 | 250 | 500 | 1.0 | 0.1 | 1.0 | 0.3 | 1.5 | 1.5 |
| | | 6.5-8.5 | 2500 | 500300 | 0.3 | 0.5 | 2.0 | 0.5 | 1.5 | 0.8 |
| | | | | | | | | | | |
| | | | | | | | | | | |

Water Quality of Surveyed Water Sources

| District | Code No. | Site Name | Source | Taste | Odour Colour | pH | Cond. mS/m | Temp °C | Cl mg/l | Hardness mg/l | Ca mg/l | Mg mg/l | M-Alk mg/l | Acidity mg/l | Fe mg/l | Mn mg/l | Cu mg/l | B mg/l | F mg/l | NH ₄ ⁺ mg/l | NO ₃ ⁻ mg/l | NO ₂ ⁻ mg/l | COD mg/l | Coliform Count | |
|----------|----------|-----------------------|-------------------------|-----------|--------------|-------|------------|---------|---------|---------------|---------|---------|------------|--------------|---------|---------|---------|--------|--------|-----------------------------------|-----------------------------------|-----------------------------------|----------|----------------|---|
| Mpika | | Polito | Borehole | Rusty | Rusty | 6.0 | 94 | 24.3 | 0 | 75 | 25 | 5 | 55 | 175 | 6.1 | 0.2 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 50 | - | |
| | | Danger Hill School | Borehole | Rusty | Rusty | 6.6 | 175 | 23.0 | | | | | | | 4.6 | 0.5 | | | 0.4 | | | | | | |
| | | Malamba School | Borehole | Good | None | 5.9 | 67 | 23.0 | | | | | | | 0.8 | 0.1 | | | 0.0 | | | | | | |
| | | Mweng | Borehole | Rusty | Rusty | 6.0 | 242 | 27.0 | 0 | 70 | 20 | 5 | 120 | 100 | >6.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.2 | 0.0 | 0.0 | 10 | + | |
| | | Chibaye | Borehole | Rusty | Rusty | 6.2 | 129 | 25.6 | 0 | 50 | - | - | 25 | 95 | >6.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | - | |
| | | Chibaye Village North | Borehole | Rusty | Rusty | 6.0 | 88 | 23.2 | | | | | | | 6.0 | 0.5 | | | 0.0 | | | | | | |
| | | Chibaye Basic School | Borehole | Rusty | Rusty | 6.6 | 46 | 25.8 | 0 | 45 | 15 | 0 | 20 | 60 | 5.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.2 | 1.0 | 0.0 | 5 | - | |
| | | Mukungie RHC | Borehole | Rusty | Rusty | 6.5 | 91 | 23.5 | 0 | 55 | 20 | 0 | 30 | 55 | >6.0 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | - | |
| | (MK-10) | Mukungie School | Borehole | Good | None | 6.5 | 173 | 23.4 | | | | | | | 0.0 | 0.0 | | | 0.4 | | | | | | |
| | MK-32 | Mukungie Palace | Dug Well | Good | None | 6.5 | 178 | 24.2 | 0 | 113 | 40 | 5 | 135 | 30 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0 | - | |
| | MK-4 | Mpumba Village | Dug Well | Good | None | 6.0 | 87 | 23.8 | 0 | 30 | 25 | 1 | 60 | 90 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0 | + | |
| | MK-15 | Chobera School | Dug Well | Good | None | 6.2 | 46 | 25.1 | 0 | 25 | 15 | 0 | 35 | 65 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | + | |
| | MK-38 | Kopa School | Dug Well | | | 6.0 | 38 | 25.4 | 0 | 100 | 15 | 5 | 40 | 95 | 0.2 | 0.5 | 0.0 | 0.5 | 0.0 | 0.2 | 0.0 | 0.0 | 10 | + | |
| | MK-2 | Chilonga | Public Tap | Good | None | | 19 | 27.7 | 0 | 10 | 5 | 1 | 15 | 5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 10 | + | |
| | MK-9 | Chisongo Village | Public Tap | Good | None | | 17 | 25.2 | 0 | 5 | 5 | 0 | 10 | 35 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | + | |
| | 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 | Kopa Village | River | Good | None | | 32 | 25.9 | 0 | 50 | 10 | 1 | 35 | 10 | 1.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 | 0.0 | 13 | + | |
| | MK-5 | Lukulu Village | Stream | Good | None | | 21 | 25.1 | 0 | 15 | 5 | 1 | 15 | 10 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | | Chinsali Hospital | Borehole | Good | None | 6.0 | 39 | 26.4 | 0 | 25 | 10 | 0 | 10 | 10 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.0 | 0.0 | 50 | - |
| | | Ofu | Borehole | Good | None | 6.0 | 37 | 21.5 | 0 | 40 | 25 | 0 | 50 | 70 | 0.0 | 0.0 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - | - | |
| | | Kapwepwe Basic School | Borehole | Good | None | 6.2 | 88 | 22.0 | 0 | 60 | 25 | 0 | 40 | 170 | 0.0 | 0.0 | - | - | 0.0 | 0.5 | 0.0 | 0.0 | - | - | |
| CH-23 | | Matumbo | Borehole | Rusty | Rusty | 6.0 | 112 | 24.9 | | | | | | | 4.2 | 0.1 | | | 0.4 | | | | | | |
| | | Kapwepbe School | Borehole | Good | None | 6.0 | 73 | 24.7 | | | | | | | 1.0 | 0.1 | | | 0.0 | | | | | | |
| CH-6 | | Nambuluma Village | Borehole | Good | None | 5.8 | 67 | 23.4 | 0 | 40 | 15 | 0 | 15 | 100 | 0.2 | 0.0 | - | - | 0.0 | 0.0 | 0.0 | 0.0 | - | - | |
| CH-22 | | Mundu | Dug Well | Good | None | 6.0 | 29 | 28.7 | 0 | 10 | 10 | 1 | 20 | 85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + | |
| | | Mundu Clinic | Dug Well | | | 7.4 | 202 | 25.0 | 0 | 360 | 150 | 0 | 160 | 40 | 0.5 | 0.0 | 0.5 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 20 | - | |
| CH-20 | | Chandamali Village | Dug Well | Good | None | 6.2 | 41 | 26.4 | 0 | 5 | 5 | 0 | 5 | 65 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 10 | + | |
| | | Chandamali Village | Dug Well | Good | None | 6.0 | 36 | 24.7 | 0 | 5 | 0 | 0 | 10 | 65 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + | |
| CH-25 | | Choshi Village | Public Tap | Good | None | | 65 | 25.6 | 0 | 15 | 5 | 1 | 15 | 15 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 10 | + | |
| CH-18 | | Chibesa School | River | Good | None | | 11 | 26.6 | 0 | 10 | 5 | 0 | 15 | 5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 10 | + | |
| CH-19 | | Mwalala School | River | Good | None | | 20 | 26.7 | 0 | 10 | 10 | 1 | 40 | 10 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 13 | + | |
| CH-21 | | Katimba School | Spring | Good | None | | 19 | 27.6 | 0 | 10 | 0 | 0 | 10 | 125 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 50 | + | |
| 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 | - | |
| CH-15 | | Lubuwa Village | Pond | Good | None | | 18 | 26.1 | 0 | 10 | 5 | 1 | 10 | 70 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0 | + | |
| CH-3 | | Musanya School | Waterhole | | | | 28 | 23.7 | 0 | 10 | 5 | 0 | 15 | 65 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 13 | - | |
| Isoka | | 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 | Borehole | Good | None | 6.0 | 101 | 27.3 | 0 | 55 | 20 | 0 | 50 | 140 | 0.0 | 0.0 | - | - | 0.0 | 1.0 | 2.0 | 0.5 | - | - |
| | | | Malango | Borehole | Rusty | Rusty | 5.8 | 74 | 23.9 | 0 | 75 | - | 0 | 40 | 30 | 4.5 | 0.2 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 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 | Borehole | Rusty | Rusty | 5.8 | 37 | 25.9 | 0 | 105 | 40 | 0 | 30 | 35 | >6.0 | 0.1 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 10 | - | |
| | | Kafwimbi Village | Borehole | Rusty | Rusty | 5.9 | 58 | 25.3 | 0 | 45 | 15 | 0 | 55 | 15 | 4.5 | 0.0 | 0.0 | 0.0 | 0.8 | 0.4 | 10.0 | 0.0 | 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 | - | |
| | IS-37 | Namya | Borehole | Good | None | 5.9 | 86 | 27.2 | 0 | 290 | 100 | 15 | 190 | 70 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 5 | + | |
| | IS-21 | Mutukumbi | Dug Well | Good | None | 6.0 | 79 | 29.4 | 0 | 20 | 15 | 0 | 40 | 76 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + | |
| | IS-23 | Kosamu Village | Dug Well | Good | None | 5.8 | 76 | 27.1 | 0 | 30 | 20 | 1 | 45 | 105 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + | |
| | IS-26 | Thendele RHC | Dug Well | Good | None | 6.2 | 116 | 24.6 | 0 | 60 | 55 | 2 | 65 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + | |
| | IS-1 | Wenela | River | Good | None | | 89 | 26.4 | 0 | 40 | 25 | 2 | 55 | 5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10 | + | |
| | IS-29 | Chinyansi Village | Spring | Good | None | | 38 | 26.7 | 0 | 20 | 10 | 0 | 25 | 35 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + | |
| | IS-3 | Kapembe | Spring | Good | None | | 33 | 22.9 | 0 | 20 | 10 | 1 | 25 | 45 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + | |
| | IS-5 | Mulamba | Stream | Good | None | | 50 | 28.0 | 0 | 30 | 15 | 2 | 45 | 5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + | |
| | Nakonde | | Ntindi Basic School | Borehole | Rusty | Rusty | 6.4 | 100 | 25.2 | 0 | 50 | 20 | 0 | 45 | 75 | 2.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0 | - |
| | | | Ilola | Borehole | Good | None | 6.0 | 126 | 23.9 | 0 | 80 | 30 | 0 | 65 | 90 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | + |
| | | | Nteko Basic School | Borehole | Rusty | Rusty | 6.0 | 151 | 25.4 | 0 | 90 | 35 | 0 | 105 | 120 | 5.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 2.0 | 0.0 | 5 | - |
| | | | Chitamba Primary School | Borehole | Good | None | 6.6 | 72 | 23.0 | 0 | 35 | 15 | 0 | 45 | 130 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 10 | - |
| | | | Mulizye | Borehole1 | Rusty | Rusty | 6.6 | 20 | 22.5 | | | | | | | 5.0 | 0.3 | | | 0.0 | | | | | |
| | | | Borehole2 | Rusty | Rusty | 6.6 | 20 | 23.4 | | | | | | | 0.5 | | | | | | | | | | |

Iron Content Distribution in Target Area

| District | Source | No. of Samples | Iron Concentration Distribution (%) | | | | | Range (mg/lit) | |
|--------------|-----------------|----------------|-------------------------------------|--------------------|------------------|------------------|----------|----------------|------------|
| | | | 0.5mg/l | >0.5mg/l, 1mg/l | >1mg/l, 2mg/l | >2mg/l, 5mg/l | >5mg/l | Min. | Max. |
| Mpika | Borehole | 9 | 1 | 1 | 0 | 1 | 6 | 0.0 | 6.1 |
| | Dug Well | 4 | 4 | | | | | 0.2 | 0.5 |
| Chinsali | Borehole | 7 | 5 | 1 | 0 | 1 | 0 | 0.0 | 3.9 |
| | Dug Well | 4 | 4 | | | | | 0.0 | 0.1 |
| Isoka | Borehole | 7 | 3 | 1 | 0 | 2 | 1 | 0.0 | 5.3 |
| | Dug Well | 3 | 3 | | | | | 0.0 | 0.0 |
| Nakonde | Borehole | 8 | 4 | 0 | 1 | 2 | 1 | 0.0 | 5.0 |
| | Dug Well | 4 | 4 | | | | | 0.0 | 0.2 |
| Mbala | Borehole | 5 | 2 | 0 | 2 | 1 | 0 | 0.3 | 3.5 |
| | Dug Well | 2 | 2 | | | | | 0.0 | 0.0 |
| Mpulungu | Borehole | 3 | 2 | 0 | 1 | 0 | 0 | 0.1 | 1.3 |
| | Dug Well | 0 | | | | | | | |
| Luwingu | Borehole | 5 | 1 | 0 | 0 | 3 | 1 | 0.0 | 6.0 |
| | Dug Well | 4 | 4 | | | | | 0.0 | 0.2 |
| Total | Borehole | 44 | 18 | 3 | 4 | 10 | 9 | 0.0 | 6.1 |
| | 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 is 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. | Problems awareness and practices of residents related to water and sanitation, income generation of households, willingness to bear cost for operation and maintenance of water supply facilities and amount they are willing and able to pay | 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 Household Survey | PRA |
|----------|---|--|
| Mpika | MK1 Kapoko MK3 Mpumba School MK6 Ngwai MK7 Katongo Kapala MK10 Mukungule Village MK13 Chifinshi Village MK18 Mwamfushi Village MK23 Kopa Village MK31 Mpepo Village MK37 Chakopo Village (Total 10 sites) | MK1 Kapoko MK10 Mukungule Village |
| Chinsali | CH1 Mbanga Village CH2 Mpyanabwalya Village CH7 Mulanga Village CH13 Chikalanga School CH15 Lubwa Village CH16 Mungulube School CH17 Poya School CH30 Kalisha School (Total 8 sites) | CH1 Mbanga Village CH7 Mulanga Village |
| Isoka | IS2 Kafwimbi C IS9 Mweni Mpangala Village IS21 Mutukumbi IS28 Muyombe Village A IS32 Kantensha (Yazaza) IS33 Sichinga (Choma) Village IS41 Nachisitu Village IS43 Mulkatembo (Total 8 sites) | IS21 Mutukumbi IS28 Muyombe Village A |
| Nakonde | NA3 Kandalala Village NA6 Nega (A) NA10 Nachipeta Village NA12 Uzinji School NA23 Mutachi Village NA25 Lyuchi Village NA29 Mwanga Village NA31 Chisambwe Village (Total 8 sites) | NA23 Mutachi Village NA29 Mwanga Vilalge |
| Mbala | MB5 Chupa Village MB7 Musipazi School MB11 Lukwesa Village | MB16 Songolo Village MB28 Vimbuli Village |

| | | |
|----------|--|--|
| | MB16 Songolo Village MB28 Vimbuli Village MB31 John Chivuta School MB34 Elon Village MB43 Isanya Village MB49 Chilesya 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 Mpsa 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

Available Water Source in the Target Sites

| Type of Wate Source | Breakdowns (%) | | | | | | | Total |
|---------------------|----------------|----------|-------|---------|-------|----------|---------|-------|
| | Mpika | Chinsali | Isoka | Nakonde | Mbala | Mpulungu | Luwingu | |
| 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

| 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 |
| Diarrhea | 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 Factors | | J | F | M | A | M | J | J | A | S | O | N | D |
|---------------------------|-----------|---------------|------------------------|--------------------|------------------------|-------------------|------------|-------------------|-------------------|----------------------|-------------------------|------------|--------------|
| Rainfall | | 0000 | 000 000 000 | 0000 0000 00 | 0 | | | | | | | 00 | 000 |
| Water availability | | 00 | 000 | 0000 0 | 000 000 0 | 000 000 | 000 0 | 00 | 0 | | | | |
| Prevalent Disease Pattern | Diarrhoea | | | | 000 0 | 000 00 | 000 000 | 000 000 000 | 000 000 000 | 0000 0000 0000 | 00000 00000 00000 | | |
| | Bilharzia | 000 | 000 0 | 0000 | 000 00 | | | | | | | | |
| | Malaria | 00000 0 | 000 000 | 0000 0000 | 000 000 000 0 | 000 000 000 | 000 000 | 000 0 | 000 000 | 0000 00 | 00000 | 0000 00 | 0000 0000 |
| | Scabies | 00000 0000 | 000 000 000 0 | 0000 0000 | 000 000 0 | 000 000 | 000 0 | 000 0 | 000 0 | 0000 0 | 00000 | 0000 00 | 0000 0000 |

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

| Primary cause of Diarrhoea | Accompanying Cause | Frequency of Cause Score | Cause Rank |
|----------------------------|---|--------------------------|------------|
| Water related | <ul style="list-style-type: none"> Dirty run off to water source Water micro organisms Poor storage of water (uncovered) | 0000 0000 00 | 1 |
| Poor hygiene related | <ul style="list-style-type: none"> Having no pit latrine; flies have access to faecal matter and Transmitting disease to foods Having no rubbish pit Unwashed utensils | 000 00 | 2 |
| Food related | <ul style="list-style-type: none"> Over eating Food gone bad Not cooked enough | 00 | 3 |

(5) Communal Activities

Existing CBOs

| | Respondent | % |
|-------|------------|------|
| Yes | 272 | 93.8 |
| No | 18 | 6.2 |
| Total | 290 | 100 |

Experiences of Communal Activities

| | Respondent | % |
|-------|------------|------|
| Yes | 256 | 88.3 |
| No | 34 | 11.7 |
| Total | 290 | 100 |

Contents of Communal Activities

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

Type of Existing CBOs

| Organisation | (%) |
|-------------------------------|-------|
| Village Development Committee | 23.6 |
| Cooperative | 13.4 |
| PTA | 24.9 |
| Health Committee | 18.6 |
| V-WASHE | 13.0 |
| Water Committee | 4.9 |
| Others | 1.6 |
| Total | 100.0 |

Ratio of Female Members

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

| 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 |
| construction 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 Water Source | V-WASHE/Water 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% |

(Village 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% |
| Furrow | 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 Water 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 Inventory Data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|----------|---------------------|---------------|--------------|-------------------|---------------|---------------------------------|-------------------------------|---|-------------------|--------------------------|--|------------------------------|----------------------|-------------------|--|-------------------------|------------------------|------------------|---------------------------------------|-------------------------------|-------------|-----|------------------|---------|-----------------|--------|--|-------------------------|--------------------------------|---------------------------|----------------|----------------|---------------------------------|--|--|-------------------------------|------------------------------------|---|--|----------------|-----------|-----|
| District | Site No. | Site Name | Ward | Chief Area | Target Population | Accessibility | Type of Existing Water Sources | | Perceptions of Existing Main Water Source | | | 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 Maintenance Activities of Existing Main Water Source | | | Resources which the Community Members can Contribute for Construction of New Water Facilities | Affordable Amount for Maintenance Fund (selected the preferable mode of payment by the respondent) | | | |
| | | | | | | | Maing Water Source for Drinking | Other Available Water Sources | Quality of Water | Quantity of Water | Time taken to the source | No. of Hand Dug Wells | No. of Hand Dug Wells in Use | Who constructed? | When constructed? | No. of Boreholes | No. of Boreholes in Use | Type of Pumping Devise | Who constructed? | When constructed? | Village Development Committee | Cooperative | PTA | Health Committee | V-WASHE | Water Committee | Others | Health Education | Construction of Latrine | Construction of Water Facility | Distribution of Food/Seed | Skill Training | Literacy Class | Micro Credit | Others | Responsible Actor | Maintenance Fund (K/HH/month) | Where the Maintenance Fund is Kept | | K/HH/month | K/person/month | K/HH/year | |
| MK | 1 | Kapoko | Nachikufu | Chikwanda | 800 | A | borehole | stream | bad | sufficient | 5 | . | . | . | . | 1 | 1 | India Mark II | Drill Africa | 2002 | yes | yes | yes | yes | yes | yes | no | no | no | no | no | no | no | relief food | V-WASHE/Water Committee | 500 | in the village | labour,sand,stones | 500 | N/A | N/A | | |
| MK | 2 | Chilonga | Nachikufu | Chikwanda | 465 | A | public tap | | bad | seasonal | 15 | . | . | . | . | 1 | 0 | India Mark II | D-WASHE | . | yes | yes | yes | yes | no | yes | no | no | no | yes | no | no | no | no | no | assisting orphans | V-WASHE/Water 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 | no | no | no | no | 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 | no | no | no | no | no | no | . | nobody | no | N/A | labour, sand | 500 | N/A | N/A | | | |
| MK | 5 | Lukulu Village | Chikanda | Mpumba | 360 | A | scoop hole | stream | bad | sufficient | 30 | . | . | . | . | 1 | 0 | Cylinder Bucket | Irish Aid | . | yes | yes | yes | yes | yes | no | no | no | yes | yes | no | no | no | no | construction of school | the villagers | no | N/A | labour,sand,stones | 500 | N/A | N/A | |
| MK | 6 | Ngwai | Chibwa | Luchembe | 205 | A | dug well | | bad | sufficient | 15 | 1 | 1 | . | . | . | . | . | . | . | yes | no | yes | yes | no | yes | no | yes | no | no | no | no | yes | yes | yes | . | V-WASHE/Water Committee | 500 | in the village | labour,sand,stones | 1,500 | N/A | N/A |
| MK | 7 | Katongo Kapala | Kanchibiya | chikwanda | 600 | A | stream | | bad | seasonal | 15 | . | . | . | . | . | . | . | . | . | yes | yes | yes | yes | yes | no | no | yes | no | no | no | yes | no | no | canal construction, road construction | nobody | no | N/A | labour,sand,stones | 500 | N/A | N/A | |
| MK | 8 | Mwateshi | Lwitikila | chikwanda | 130 | A | scoop hole | | bad | seasonal | 5 | . | . | . | . | . | . | . | . | . | yes | yes | yes | yes | yes | no | no | no | no | no | no | yes | yes | yes | no | road construction, constructing the bridge | the villagers | no | N/A | labour | 500 | N/A | N/A |
| MK | 9 | Chisongo Village | Nachikufu | chikwanda | 1,000 | A | public tap | scoop hole | acceptable | seasonal | 30 | . | . | . | . | . | . | . | . | . | yes | yes | no | no | no | yes | no | no | no | yes | no | no | no | bee keeping, industrial support | V-WASHE/Water Committee | no | N/A | labour | No Answer | No Answer | No Answer | | |
| MK | 10 | Mukungule Village | Chipembele | Mukungule | 200 | B | scoop hole | | acceptable | seasonal | 15 | . | . | . | . | 1 | 1 | Cylinder Bucket | Irish Aid | . | yes | no | no | no | no | no | no | no | no | no | no | no | no | ram press | the villagers | no | N/A | labour,sand,stones | 500 | N/A | N/A | | |
| MK | 11 | Lufila Village | Mutekwe | Mukungule | 185 | A | stream | | bad | sufficient | 30 | . | . | . | . | . | . | . | . | . | yes | yes | yes | yes | yes | no | no | no | no | no | no | no | no | no | ram press | nobody | no | N/A | labour | 1,000 | N/A | N/A | |
| MK | 12 | Kakoko Village | Mutekwe | Mukungule | 95 | B | stream | | bad (salty) | sufficient | 10 | . | . | . | . | . | . | . | . | . | yes | no | yes | yes | no | no | no | no | no | no | no | no | no | 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 | no | no | no | no | 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 | no | no | no | no | yes | no | 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 (muddy) | sufficient | 15 | 1 | 1 | D-WASHE | . | . | . | . | . | . | no | yes | yes | yes | no | no | no | no | no | no | no | yes | no | no | no | . | nobody | no | N/A | labour,sand,stones | 5,000 | N/A | N/A |
| MK | 16 | Chishala Village | Mutekwe | Mukungule | 156 | A | scoop hole | stream | bad | seasonal | 30 | 1 | 0 | D-WASHE | . | . | . | . | . | . | yes | yes | yes | yes | yes | no | no | no | no | no | no | no | 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 hole | stream | acceptable | seasonal | 10 | . | . | . | . | . | . | . | . | . | no | yes | yes | yes | yes | no | no | no | no | yes | yes | no | 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 | no | no | no | no | no | no | no | yes | . | the villagers | no | N/A | labour,sand,stones | 200 | N/A | N/A | |
| MK | 19 | Kaluba Village | Chipembele | Mukungule | 2,500 | A | scoop hole | stream | bad | seasonal | 30 | 1 | 0 | . | . | 1 | 0 | . | Council | . | yes | yes | yes | yes | yes | no | no | no | no | no | no | no | yes | no | no | construction of storage shed | the villagers | no | N/A | sand,stones | 1,000 | N/A | N/A |
| MK | 20 | Ifunda Village | Mpika Central | Chikwanda | 510 | A | scoop hole | | good | sufficient | 3 | 1 | 0 | . | . | . | . | . | . | . | yes | no | yes | no | no | yes | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | labour,sand,stones | 1,000 | N/A | N/A | |
| MK | 21 | Mufubushi Village | Nachikufu | Chikwanda | 100 | A | stream | | bad | seasonal | 15 | 1 | 0 | ESP | . | 1 | 0 | Cylinder Bucket | D-WASHE | . | yes | yes | yes | yes | no | no | no | no | yes | no | yes | no | no | no | road construction, constructing the bridge | the villagers | no | N/A | labour,sand,stones | N/A | N/A | 5,000 | |
| MK | 22 | Malambwa Village | Mukungwa | Chikwanda | 1,326 | A | dug well | borehole | bad (salty) | not sufficient | 30 | 20 | 20 | . | . | 1 | 1 | India Mark II | Irish Aid | . | yes | no | yes | no | no | yes | no | yes | no | yes | no | no | no | no | . | V-WASHE/Water Committee | no | N/A | labour,sand, moulding bricks | No Answer | No Answer | No Answer | |
| MK | 23 | Mpepo Village | Chambeshi | Mpepo | 2,000 | A | stream | dug well | bad | sufficient | 40 | 75 | 10 | community themselves | . | . | . | . | . | . | yes | yes | no | no | no | no | no | yes | no | no | no | no | no | no | . | Health Committee | no | N/A | labour, moulding bricks | 2,000 | N/A | N/A | |
| MK | 24 | Chambeshi Village | Kanchibiya | Mpepo | 2,214 | A | stream | | bad | sufficient | 10 | . | . | . | . | . | . | . | . | . | no | no | yes | yes | no | yes | no | no | no | no | no | no | no | . | nobody | no | N/A | labour | 1,000 | N/A | N/A | | |
| MK | 25 | Kamulamwiko Village | Chambeshi | Mpepo | 1,000 | A | dug well | | acceptable | sufficient | 5 | 1 | 1 | D-WASHE | . | . | . | . | . | . | no | no | yes | no | no | no | no | yes | no | yes | no | no | no | no | educational assistance | the headman | no | N/A | labour,moulding bricks | 2,000 | N/A | N/A | |
| MK | 26 | Kaole Village | Nachikufu | Chikwanda | 1,812 | A | scoop hole | dug well, borehole | bad | seasonal | 15 | 1 | 1 | ESP | . | 1 | 1 | India Mark II | Irish Aid | . | no | yes | yes | yes | yes | yes | no | yes | no | yes | yes | no | yes | yes | . | the villagers | no | N/A | labour | N/A | N/A | 5,000 | |
| MK | 27 | Ndakala Village | Kanchibiya | Luchembe | 300 | A | stream | | acceptable | seasonal | 40 | . | . | . | . | . | . | . | . | . | no | no | no | no | no | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | labour,sand,moulding bricks | 5,000 | N/A | N/A | | |
| MK | 28 | Aluni Village | | Luchembe | 1,300 | A | scoop hole | | bad | sufficient | 3 | . | . | . | . | . | . | . | . | . | N/A | N/A | | | | | | | | | | | | | | | | | | | | | |

| Village Inventory Data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| District | Site No. | Site Name | Ward | Chief Area | Target Population | Accessibility | Type of Existing Water Sources | | Perceptions of Existing Main Water Source | | | 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 Maintenance Activities of Existing Main Water Source | | | Resources which the Community Members can Contribute for Construction of New Water Facilities | Affordable Amount for Maintenance Fund (selected the preferable mode of payment by the respondent) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Maing Water Source for Drinking | Other Available Water Sources | Quality of Water | Quantity of Water | Time taken to the source | No. of Hand Dug Wells | No. of Hand Dug Wells in Use | Who constructed? | When constructed? | No. of Boreholes | No. of Boreholes in Use | Type of Pumping Devise | Who constructed? | When constructed? | Village Development Committee | Cooperative | PTA | Health Committee | V-WASHE | Water Committee | Others | Health Education | Construction of Latrine | Construction of Water Facility | Distribution of Food/Seeed | Skill Training | Literacy Class | Micro Credit | Others | Responsible Actor | Maintenance Fund (K/HH/month) | Where the Maintenance Fund is Kept | | K/HH/month | K/person/month | K/HH/year | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CH | 1 | Mubanga Village | Chilinda | Mubanga | 568 | A | stream | | acceptable | sufficient | 30 | . | . | . | . | . | . | . | . | . | yes | yes | yes | yes | yes | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no | no |

| District | Site No. | Site Name | Ward | Chief Area | Target Population | Accessibility | Type of Existing Water Sources | | Perceptions of Existing Main Water Source | | | 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 Maintenance Activities of Existing Main Water Source | | | Resources which the Community Members can Contribute for Construction of New Water Facilities | Affordable Amount for Maintenance Fund (selected the preferable mode of payment by the respondent) | | |
|----------|----------|--------------------|-------------|------------|--------------------------|---------------|---------------------------------|-------------------------------|---|-------------------|--------------------------|--|------------------------------|----------------------|------------------|---|-------------------------|-------------------------|------------------|-------------------|--------------------------------|---------------------------------------|-----|-------------------|-----------|-------------------|--------|-------------------|--|---------------------------------|------------------------------|------------------------------------|-----------------|------------------------------------|--------|-------------------|--|------------------------------------|-------------|---|--|------------|--|
| | | | | | | | Maing Water Source for Drinking | Other Available Water Sources | Quality of Water | Quantity of Water | Time taken to the source | No. of Hand Dug Wells | No. of Hand Dug Wells in Use | Who constructed? | When construced? | No. of Boreholes | No. of Boreholes in Use | Type of Pumping Devise | Who constructed? | When constructed? | Village Developm ent Committee | Cooper ative | PTA | Health Comm ittee | V- WAS HE | Water Com mitte e | Others | Health Educatio n | Constru ction of Latrine | Construct ion of Water Facility | Distribut ion of Food/S seed | Skill Training | Literac y Class | Micro Credit | Others | Responsible Actor | Maintenan ce Fund (K/HH/m onth) | Where the Maintenance Fund is Kept | K/HH/m onth | | K/perso n/month | K/HH/ye ar | |
| IS | 1 | Wenela | Kakoma | Muyambe | 784 | A | stream | scoop hole | bad | seasonal | 30 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | nobody | V-WASHE/Water Committee | no | N/A | labour,sand,stones,moulding bricks | 500 | N/A | N/A | | | | | | |
| IS | 2 | Kafwimbi C | Milonga | Kafwimbi | 1,000 | A | borehole | dug well | good | sufficient | 60 | 4 | 3 | community themselves | . | 3 | 3 | Cylinder Bucket & IMKII | Irish Aid, MPU | . | yes | yes | yes | yes | no | no | no | no | no | paying patients fees | V-WASHE/Water Committee | no | N/A | labour,sand,stones | N/A | N/A | 1,000 | | | | | | |
| IS | 3 | Kapembe | Mukutu | | 157 | A | spring | stream, dug well | acceptable | sufficient | 30 | 1 | 1 | . | . | . | . | . | . | yes | yes | yes | no | no | no | no | no | no | Health Committee | no | N/A | labour,sand,stones | 1,000 | N/A | N/A | | | | | | | | |
| IS | 4 | Ntumbi | | Kafwimbi | 105 | A | dug well | | good | sufficient | 4 | 4 | 4 | 2000 | . | . | . | . | . | N/A | N/A | N/A | N/A | N/A | N/A | N/A | no | no | nobody | no | N/A | labour | 1,000 | N/A | N/A | | | | | | | | |
| IS | 5 | Mulamba | Luangwa | Katyete | 260 | A | stream | | bad (mudd | sufficient | 10 | . | . | . | . | . | . | . | no | yes | yes | yes | yes | no | no | no | no | the villagers | no | N/A | labour,sand,stones,cash | N/A | N/A | 5,000 | | | | | | | | | |
| IS | 6 | Chitete Village | Mafinga | Kampungpu | 560 | A | stream | dug well, borehole | bad | seasonal | 60 | 1 | 1 | Ireland Aid | . | 1 | 1 | . | . | N/A | N/A | N/A | N/A | N/A | N/A | N/A | no | no | the headman | no | N/A | labour,sand,stones,moulding bricks | 1,000 | N/A | N/A | | | | | | | | |
| IS | 7 | Mupapa | | | 215 | B | stream | | bad (salty) | seasonal | 3 | . | . | . | . | . | . | . | no | no | yes | no | no | no | no | no | no | nobody | no | N/A | labour,cash | 2,500 | N/A | N/A | | | | | | | | | |
| IS | 8 | Mweniwisi | | | Inaccessible to the site | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IS | 9 | Mweni Mpangala | Mpungu | Mweniwisi | 2,500 | B | stream | | acceptable | sufficient | 20 | . | . | . | . | . | . | . | yes | no | yes | no | no | no | no | no | no | agriculture | V-WASHE/Water Committee | no | N/A | labour,poles | 2,000 | N/A | N/A | | | | | | | | |
| IS | 10 | Mweniwisi School | | | Inaccessible to the site | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IS | 11 | Namisuku (Kalungu) | Sansamwenje | Kafwimbi | 1,676 | A | stream | dug well | bad | seasonal | 40 | 18 | 18 | . | . | 2 | 0 | Irish Aid | . | yes | no | no | yes | yes | no | no | no | no | the villagers | no | N/A | labour,sand,stones | 5,000 | N/A | N/A | | | | | | | | |
| IS | 12 | Mwaiensi 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 | no | no | owners of wells | no | N/A | labour,sand,stones | 1,000 | N/A | N/A | | | | | | | | |
| IS | 13 | Chanama | Mukutu | Chipungwe | 350 | B | stream | | acceptable | sufficient | 10 | . | . | . | . | . | . | . | yes | no | no | no | no | no | no | no | no | Health Committee | no | N/A | labour,sand,stones | 10,000 | N/A | N/A | | | | | | | | | |
| IS | 14 | Chiwanda Village | Kapililonga | Kafwimbi | 600 | A | stream | | bad | not suffici | 10 | 1 | 0 council | . | . | . | . | . | yes | no | no | no | no | no | no | no | no | nobody | no | N/A | labour,sand,stones, | N/A | 500 | N/A | | | | | | | | | |
| IS | 15 | Kapililonga | Kapililonga | Kafwimbi | 375 | A | dug well | borehole | good | seasonal | 30 | 1 | 1 Ireland Aid | . | 1 | 1 | India Mark II | Irish Aid, Drill Africa | . | no | yes | yes | no | no | no | no | no | agriculture | V-WASHE/Water Committee | 500 | No Answer | labour,sand,stones,moulding bricks | 10,000 | N/A | N/A | | | | | | | | |
| IS | 16 | Tubale | Kalanga | Muyombe | 200 | B | stream | | good | seasonal | 60 | . | . | . | . | . | . | . | N/A | N/A | N/A | N/A | N/A | N/A | N/A | yes | no | nobody | no | N/A</ | | | | | | | | | | | | | |

| Village Inventory Data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|----------|-----------------------|-----------|-------------|--------------------------|---------------|---------------------------------|-------------------------------|---|-------------------|--------------------------|--|------------------------------|----------------------|-------------------|--|-------------------------|------------------------|--------------------|---------------------------------------|-------------------------------|-------------|-----|------------------|---------|--|--------|------------------|-------------------------|--------------------------------|----------------------------|----------------|-------------------|--|--------------------------------|---|---|--|-------------------------------------|-------------------------------------|----------------|-----------|-------|
| District | Site No. | Site Name | Ward | Chief Area | Target Population | Accessibility | Type of Existing Water Sources | | Perceptions of Existing Main Water Source | | | 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 Maintenance Activities of Existing Main Water Source | | | Resources which the Community Members can Contribute for Construction of New Water Facilities | Affordable Amount for Maintenance Fund (selected the preferable mode of payment by the respondent) | | | | | |
| | | | | | | | Maing Water Source for Drinking | Other Available Water Sources | Quality of Water | Quantity of Water | Time taken to the source | No. of Hand Dug Wells | No. of Hand Dug Wells in Use | Who constructed? | When constructed? | No. of Boreholes | No. of Boreholes in Use | Type of Pumping Devise | Who constructed? | When constructed? | Village Development Committee | Cooperative | PTA | Health Committee | V-WASHE | Water Committee | Others | Health Education | Construction of Latrine | Construction of Water Facility | Distribution of Food/Seeds | Skill Training | Literacy Class | Micro Credit | Others | Responsible Actor | | Maintenance Fund (K/HH/month) | Where the Maintenance Fund is Kept | K/HH/month | K/person/month | K/HH/year | |
| NA | 1 | Nakakola Village (A) | Popomozi | Waitwika | 1,000 | A | stream | dug well | good | sufficient | 10 | 1 | 1 | Ireland Aid | 1997 | . | . | . | . | yes | no | yes | yes | yes | no | no | no | no | no | yes | yes | no | no | no | . | rehabilitation of school infrastructure | the villagers | no | N/A | labour,sand,stones, moulding bricks | N/A | N/A | 2,000 |
| NA | 2 | Kawele School | | Waitwika | 232 | A | stream | | bad | seasonal | 10 | . | . | . | . | . | . | . | no | no | yes | yes | yes | no | no | no | no | no | no | no | no | no | no | . | | 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 | seasonal | 30 | . | . | . | . | . | . | . | no | yes | yes | yes | no | 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 | dug well | spring | good | sufficient | 20 | 1 | 1 | . | . | . | . | . | no | no | no | no | no | yes | no | no | no | no | no | no | no | no | no | . | nobody | nobody | no | N/A | labour,sand,stones | No Answer | No Answer | No Answer | |
| NA | 5 | Burton Village | Popomodzi | Waitwika | 1,115 | A | stream | | acceptable | not sufficient | No Answer | 2 | 0 | community themselves | . | . | . | . | yes | yes | yes | no | no | no | no | no | no | no | yes | no | no | no | no | no | assisting orphans | nobody | no | N/A | labour,sand,moulding bricks | 5,000 | N/A | N/A | |
| NA | 6 | Nega (A) | Musyani | Waitwika | 324 | A | dug well | spring | good | seasonal | 10 | 1 | 1 | Ireland Aid | 1999 | . | . | . | yes | yes | no | yes | yes | no | no | no | no | yes | no | no | no | no | no | . | | V-WASHE/Water Committee | no | N/A | labour | No Answer | No Answer | No Answer | |
| NA | 7 | Kasakalabwe Village | Mulalo | Waitwika | 207 | A | stream | | bad | seasonal | 5 | . | . | . | . | . | . | yes | no | yes | no | no | no | no | no | no | no | no | yes | no | no | yes | . | the villagers | no | N/A | labour,sand,stones, moulding bricks | N/A | N/A | 5,000 | | | |
| NA | 8 | Mayembe Village | Chiwanza | Waitwika | 309 | A | dug well | borehole | good | seasonal | 3 | 10 | 10 | . | . | 1 | 1 | Cylinder Bucket | Irish Aid | 1997 | no | yes | no | no | yes | no | no | no | no | no | no | no | no | no | . | owners of wells | no | N/A | labour,sand,stones, moulding bricks | 1,000 | N/A | N/A | |
| NA | 9 | Mipulya School | Luchinde | Waitwika | 320 | A | stream | | bad | seasonal | 30 | . | . | . | . | . | . | yes | yes | yes | yes | yes | no | no | no | no | no | no | yes | no | no | no | no | . | nobody | no | N/A | labour,sand,stones, moulding bricks | N/A | N/A | 5,000 | | |
| NA | 10 | Nachipeta A | Ngumba | Waitwika | 260 | A | spring | dug well. Borehole | bad | sufficient | 10 | 2 | 2 | DWA | 1980 | 1 | 1 | Cylinder Bucket | . | 2000 | no | yes | no | no | no | no | organ | no | no | no | no | no | no | no | construction of school | the villagers | no | N/A | sand,stones | 500 | N/A | N/A | |
| NA | 11 | Isasa Village | Luchinde | Waitwika | 170 | A | stream | dug well | bad (muddy) | seasonal | 30 | 1 | 1 | . | 1997 | . | . | . | yes | no | yes | no | yes | no | no | no | no | no | no | no | no | no | no | . | V-WASHE/Water Committee | 1000 | in the village | labour,sand,stones | N/A | 1,000 | N/A | | |
| NA | 12 | Uzinji School | Luchinde | Waitwika | 243 | B | spring | | good | sufficient | 10 | 1 | 0 | Ireland Aid | 1982 | . | . | . | yes | yes | yes | yes | yes | no | no | no | no | no | yes | no | no | no | no | . | school children | no | N/A | labour,sand,stones, cash | N/A | N/A | 5,000 | | |
| NA | 13 | Chiwale school | Ilonda | Waitwika | 135 | A | dug well | | bad | seasonal | 60 | 2 | 1 | . | . | . | . | N/A | N/A | N/A | N/A | N/A | N/A | N/A | no | no | no | no | no | no | no | no | no | . | owners of wells | no | N/A | labour,sand,stones | N/A | N/A | 2,000 | | |
| NA | 14 | Nankungulu School | Musele | Mwenempamba | 175 | A | scoop hole | | acceptable | not sufficient | 30 | . | . | . | . | . | . | yes | no | yes | yes | no | no | organ | no | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | labour,sand,stones, in kind | 1,000 | N/A | N/A | | |
| NA | 15 | Chisambwe School | | Mwenempamba | 150 | B | dug well | | bad | seasonal | 20 | 3 | 3 | community themselves | . | . | . | yes | no | yes | yes | yes | no | no | no | no | no | no | no | no | no | no | . | the villagers, school committee | no | N/A | labour,sand,stones | 500 | N/A | N/A | | | |
| NA | 16 | Kazembe School | | | Inaccessible to the site | | | | | | | | community themselves | . | . | . | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NA | 17 | Yolo Community School | Nakonde | Waitwika | 240 | A | stream | dug well | acceptable | sufficient | 40 | 3 | 3 | community themselves | . | . | . | no | yes | no | no | no | 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 | | |
| NA | 18 | Musesengoma School | Musyani | Wawaitwika | 360 | A | borehole | | good | sufficient | No Answer | . | . | . | . | 1 | 1 | India Mark II | Irish Aid | 2003 | yes | yes | yes | no | no | no | no | no | yes | yes | no | no | no | no | construction of school | school committee | no | N/A | sand,stones | No Answer | No Answer | No Answer | |
| NA | 19 | Shemu RHC | Mpande | Kafwimbi | 108 | B | dug well | | bad | seasonal | 5 | 4 | 3 | GRZ | . | . | . | no | no | yes | yes | yes | no | no | no | no | no | no | no | no | no | no | no | . | V-WASHE/Water Committee | no | N/A | sand,stones | 500 | N/A | N/A | | |
| NA | 20 | Kalanda | Ilonda | Waitwika | 65 | A | stream | scoop hole, pond | bad | seasonal | 60 | . | . | . | . | . | . | N/A | N/A | N/A | N/A | N/A | N/A | N/A | no | no | 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 | seasonal | 30 | . | . | . | . | . | . | no | yes | no | yes | no | no | no | no | no | no | no | yes | no | no | no | no | . | nobody | no | N/A | labour,sand,stones | 2,500 | N/A | N/A | | |
| NA | 22 | Ilenga Village | Mpande | Kafwimbi | 105 | B | stream | | bad | seasonal | 45 | . | . | . | . | . | . | no | no | yes | no | no | no | no | no | no | no | no | no | no | no | no | no | . | nobody | no | N/A | labour,sand,stones | 2,000 | N/A | N/A | | |
| NA | 23 | Mutachi Village | Musele | Mwenempamba | 647 | B | dug well | | good | seasonal | 10 | 1 | 1 | DWA | . | . | . | yes | no | no | yes | yes | no | no | no | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | labour,sand,stones, moulding bricks | N/A | N/A | 2,000 | | |
| NA | 24 | Kazembe Village | Mpande | Kafwimbi | 425 | B | stream | scoop hole | bad | seasonal | 20 | . | . | . | . | . | . | N/A | N/A | N/A | N/A | N/A | N/A | N/A | no | no | no | no | no | no | no | no | no | . | nobody | no | N/A | labour,sand,stones | N/A | N/A | 2,000 | | |
| NA | 25 | Lyuchi Village | Ilonda | Waitwika | 465 | A | dug well | | good | seasonal | 3 | 19 | 19 | . | . | . | . | yes | yes | no | yes | no | no | organ | no | no | 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 | seasonal | No Answer | 1 | 1 | Ireland Aid | 1997 | . | . | . | yes | no | 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 | seasonal | 30 | 2 | 2 | Ireland Aid | . | . | . | yes | yes | yes | yes | yes | no | no | no | no | no | no | no | no | no | no | no | educational assistance | the villagers | no | N/A | labour,sand,stones | 500 | N/A | N/A | | |
| NA | 28 | Musesengoma Village | Musyani | Waitwika | 107 | A | dug well | | good | sufficient | 10 | 1 | 1 | Ireland Aid | 2001 | . | . | . | yes | yes | yes | yes | yes | no | no | no | no | yes | no | no | no | no | no | . | the villagers | 500 | in the village | sand,stones | 5,000 | N/A | N/A | | |
| NA | 29 | Mwanga Village | Mulalo | Waitwika | 431 | A | stream | | good | not sufficient | 30 | . | . | . | . | 1 | 0 | Cylinder Bucket | D-WASHE | . | yes | yes | yes | no | yes | no | no | no | yes | no | no | no | no | . | V-WASHE/Water 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 | seasonal | 30 | 1 | 1 | Ireland Aid | 1999 | . | . | . | yes | yes | yes | yes | yes | yes | no | no | no | no | no | yes | no | no | no | . | the villagers | no | N/A | sand,stones,cash | N/A | N/A | 2,000 | | |
| NA | 31 | Chinsambwe Village | Musele | Chinsambwe | 170 | A | scoop hole | dug well | bad | seasonal | 30 | 5 | 5 | community themselves | . | . | . | no | no | yes | no | no | 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 | scoop hole | dug well, borehole | good | seasonal | 20 | 4 | 4 | community themselves | . | 1 | 1 | . | Irish Aid | 1996 | no | yes | yes | yes | no | no | no | yes | no | no | no | no | assisting orphans | nobody | no | N/A | sand,stones,cement | 1,000 | N/A | N/A | | | |
| NA | 33 | Chozi | Mulalo | Waitwika | 950 | A | borehole | | acceptable | seasonal | 2 | . | . | . | . | 2 | 2 | India Mark II | Chinese, Irish Aid | 2001 | yes | yes | yes | yes | no | yes | no | no | no | yes | no | no | no | no | . | health staff | no | N/A | cash | No Answer | No Answer | No Answer | |
| NA | 34 | Muli Village | Isunda | Waitwika | 560 | A | stream | scoop hole | acceptable | seasonal | 10 | . | . | . | . | 1 | 0 | Cylinder Bucket | DWA, Irish Aid | . | no | yes | no | yes | no | no | organ | no | no | no | yes | no | yes | yes | hospital, paying patients fees | the villagers | no | N/A | labour,sand,stones, moulding bricks | N/A | N/A | 3,000 | |
| NA | 35 | Chapanya School | Chiwanza | Waitwika | 300 | A | spring | stream | bad | seasonal | 20 | . | . | . | . | 1 | 0 | Cylinder Bucket | D-WASHE, Irish Aid | . | no | no | yes | yes | no | no | no | no | no | no | no | no | no | . | teachers | no | N/A | labour,sand | N/A | N/A | 10,000 | | |
| NA | 36 | Mwanga School | Mulalo | Waitwika | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Village Inventory Data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| District | Site No. | Site Name | Ward | Chief Area | Target Population | Accessibility | Type of Existing Water Sources | | Perceptions of Existing Main Water Source | | | 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 Maintenance Activities of Existing Main Water Source | | | Resources which the Community Members can Contribute for Construction of New Water Facilities | Affordable Amount for Maintenance Fund (selected the preferable mode of payment by the respondent) | | | | |
| | | | | | | | Maing Water Source for Drinking | Other Available Water Sources | Quality of Water | Quantity of Water | Time taken to the source | No. of Hand Dug Wells | No. of Hand Dug Wells in Use | Who constructed? | When constructed? | No. of Boreholes | No. of Boreholes in Use | Type of Pumping Devise | Who constructed? | Wnen constructed? | Village Developm ent Committee | Cooper ative | PTA | Health Comm ittee | V- WAS HE | Water Com mitte e | Others | Health Educatio n | Constru ction of Latrine | Constru ction of Water Facility | Distribut ion of Food/S eed | Skill Training | Literac y Class | Micro Credit | Others | Responsible Actor | | Maintenan ce Fund (K/HH/m onth) | Where the Maintenance Fund is Kept | K/HH/m onth | K/perso n/month | K/HH/ye ar |
| ML | 1 | Kamba | Katwe | Chitimbwa | 170 | B | borehole | | acceptable | sufficient | 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 | no | V-WASHE/Water Committee | no | N/A | labour,sand,stones | 1,000 | N/A | N/A |
| ML | 2 | Kambole | Katwe | Chitimbwa | 150 | B | stream | | acceptable | seasonal | 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 | 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 | scoop hole | | bad | seasonal | 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 | stream | | acceptable | sufficient | 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 | stream | | good | sufficient | 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 | | acceptable | 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 | 150 | A | stream | | acceptable | sufficient | 35 | . | . | . | . | . | . | . | . | . | yes | no | no | yes | no | no | no | no | no | no | no | no | no | the villagers | no | N/A | labour,sand,stones | 1,500 | N/A | N/A | | |
| ML | 9 | Kasusu | Chisha | Chinakila | 250 | A | stream | | bad | sufficient | 20 | 1 | 0 | Ireland Aid | 1992 | 1 | 0 | Cylinder Bucket | Irish Aid | 1996 | yes | no | yes | no | no | no | no | no | yes | no | no | no | no | rehabilitation of school infrastructure | school children | no | N/A | sand, stones | 1,000 | N/A | N/A | |
| ML | 10 | Ntema | Isunga | Chinakila | 116 | B | stream | | bad (mudd | seasonal | 60 | . | . | . | . | . | . | . | . | . | yes | no | yes | no | no | no | no | no | no | no | no | no | no | nobody | no | N/A | labour,sand,stones | 1,000 | N/A | N/A | | |
| ML | 11 | Shimwalota | Isunga | Chinakila | 170 | B | stream | | bad (mudd | sufficient | No Answer | 1 | 0 | GRZ | 1960 | . | . | . | . | . | yes | no | no | no | no | no | no | no | no | no | no | no | nobody | no | N/A | sand,stones | 2,000 | N/A | N/A | | | |
| ML | 12 | Kabamba | Isunga | Chinakila | 500 | B | stream | | good | sufficient | 30 | . | . | . | . | . | . | . | . | . | yes | no | yes | yes | yes | no | no | no | no | no | no | no | no | construction of school | the villagers | no | N/A | labour,cash | 1,000 | N/A | N/A | |
| ML | 13 | Kopeka | Isunga | Chinakila | 4,815 | B | stream | | good | seasonal | No Answer | 2 | 2 | community themselves | . | . | . | . | . | . | yes | no | yes | no | yes | no | no | no | no | no | no | no | no | educational assistance | nobody | no | N/A | labour,sand,stones | 2,500 | N/A | N/A | |
| ML | 14 | Simoche | Chibulula | Tafuna | 531 | C | spring | stream, dug well | bad | seasonal | 5 | 4 | 4 | community themselves | 1995 | . | . | . | . | . | yes | no | no | yes | no | no | no | no | no | no | no | no | nobody | no | N/A | labour,sand,stones, moulding bricks | N/A | N/A | 5,000 | | | |
| ML | 15 | Jecap | Vyamba | Chinakila | 2,220 | A | stream | dug well | bad | seasonal | 60 | 6 | 4 | community themselves | . | . | . | . | . | . | yes | yes | yes | yes | yes | no | no | no | no | no | no | no | nobody | no | N/A | labour,sand,stones | N/A | N/A | 2,000 | | | |
| ML | 16 | Kasasi | Vyamba | Chinakila | 333 | C | dug well | stream | bad | seasonal | 5 | 2 | 1 | community themselves | 1995 | . | . | . | . | . | no | no | no | yes | no | yes | no | no | no | no | no | no | no | the villagers | 400 | in the village | labour,sand,stones | N/A | N/A | 5,000 | | |
| ML | 17 | Chilwa | | Chitimbwa | 2,400 | B | stream | | bad | seasonal | 60 | . | . | . | . | . | . | . | . | . | yes | yes | no | no | yes | no | no | yes | no | no | no | no | no | nobody | no | N/A | labour,sand,stones | N/A | N/A | 1,000 | | |
| ML | 18 | Chaulu (School) | Vyamba | Chitimbwa | 370 | A | stream | | acceptable | sufficient | 60 | . | . | . | . | . | . | . | . | . | yes | no | yes | no | no | no | no | no | no | no | no | no | no | the villagers | no | N/A | labour | 500 | N/A | N/A | | |
| ML | 19 | Mengo (School) | Chisha | Chinakila | 360 | B | stream | | bad | sufficient | 20 | . | . | . | . | . | . | . | . | . | no | no | yes | no | no | no | no | no | no | no | no | no | no | nobody | no | N/A | sand,stones | 500 | N/A | N/A | | |
| ML | 20 | Muswilo (School) | Isoko | Tafuna | 530 | A | stream | | bad | sufficient | 15 | . | . | . | . | . | . | . | . | . | no | no | yes | yes | yes | no | no | no | no | no | no | no | no | educational assistance | nobody | no | N/A | labour,construction materials,cash | 500 | N/A | N/A | |
| ML | 21 | Kalongola | Katwe | Chitimbwa | 170 | B | scoop hole | spring | acceptable | sufficient | 10 | . | . | . | . | . | . | . | . | . | yes | no | yes | no | no | no | no | no | no | no | no | no | no | the villagers | no | N/A | labour,sand,stones | 200 | N/A | N/A | | |
| ML | 22 | Chibote | Vyamba | Chinakila | 240 | C | stream | | good | sufficient | 15 | . | . | . | . | . | . | . | . | . | yes | no | no | no | no | no | no | no | no | no | no | no | no | nobody | no | N/A | labour,sand,stones | N/A | N/A | 5,000 | | |
| ML | 23 | Chitinta | Mpulungu | Tafuna | 370 | A | stream | | bad | sufficient | 15 | . | . | . | . | . | . | . | . | . | no | no | yes | yes | no | no | no | yes | no | no | no | no | no | nobody | no | N/A | labour,sand,stones | 5,000 | N/A | N/A | | |
| ML | 24 | Patrick | Kasimango | Tafuna | 380 | A | furrow | | bad | seasonal | 5 | . | . | . | . | . | . | . | . | . | yes | no | yes | yes | 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 | stream | | bad (mudd | sufficient | 10 | 1 | 0 | community themselves, | 1998 | . | . | . | . | . | no | no | no | no | yes | no | no | 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 | stream | | bad | sufficient | 45 | . | . | . | . | . | . | . | . | . | yes | no | yes | yes | yes | 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 | No Answer | . | . | . | . | . | . | . | . | . | yes | no | yes | yes | yes | 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 (mudd | sufficient | 45 | . | . | . | . | . | . | . | . | . | yes | no | 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 | 29 | Isoko (School) | Isoko | Tafuna | 320 | A | stream | | bad | sufficient | 15 | . | . | . | . | 1 | 0 | Cylinder Bucket | Irish Aid | 1998 | yes | yes | yes | yes | yes | no | no | no | no | no | no | no | no | rehabilitation of school infrastructure | nobody | no | N/A | poles | 5,000 | N/A | N/A | |
| ML | 30 | Makola (School) | Isoko | Tafuna | 284 | A | furrow | | bad | sufficient | 5 | . | . | . | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Village Inventory Data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|----------|----------------------------|--------------|------------|-------------------|---------------|---------------------------------|-------------------------------|---|-------------------|--------------------------|--|------------------------------|------------------------------|-------------------|--|-------------------------|------------------------|------------------|---------------------------------------|--------------------------------|--------------|-----|-------------------|-----------|--|--------|-------------------|--------------------------|---------------------------------|-----------------------------|--|-----------------|------------------------|---|--|--------------------|-------------------------------------|------------------------------------|-------------|-----------------|------------|
| District | Site No. | Site Name | Ward | Chief Area | Target Population | Accessibility | Type of Existing Water Sources | | Perceptions of Existing Main Water Source | | | 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 Maintenance Activities of Existing Main Water Source | | | Resources which the Community Members can Contribute for Construction of New Water Facilities | Affordable Amount for Maintenance Fund (selected the preferable mode of payment by the respondent) | | | | | | |
| | | | | | | | Maing Water Source for Drinking | Other Available Water Sources | Quality of Water | Quantity of Water | Time taken to the source | No. of Hand Dug Wells | No. of Hand Dug Wells in Use | Who constructed? | When constructed? | No. of Boreholes | No. of Boreholes in Use | Type of Pumping Devise | Who constructed? | When constructed? | Village Developm ent Committee | Cooper ative | PTA | Health Comm ittee | V- WAS HE | Water Com mitte e | Others | Health Educatio n | Constru ction of Latrine | Construc tion of Water Facility | Distributi on of Food/S eed | Skill Training | Literac y Class | Micro Credit | | Others | Responsible Actor | Maintenan ce Fund (K/HH/m onth) | Where the Maintenance Fund is Kept | K/HH/m onth | K/perso n/month | K/HH/ye ar |
| LU | 1 | Chanda Chipalo | Namukolo | Chipalo | 432 | A | dug well | | bad | seasonal | No Answer | 10 | 10 | community themselves | . | . | . | . | . | . | yes | no | no | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | labour,sand,stones | N/A | N/A | 5,000 | | | |
| LU | 2 | Saili (school) | Chulungoma | Chipalo | 405 | A | furrow | dug well | bad | sufficient | 5 | 10 | 4 | community themselves | . | . | . | . | . | . | yes | no | yes | no | yes | yes | no | no | no | no | yes | no | no | . | V-WASHE/Water Committee | no | N/A | labour,stones | N/A | N/A | 1,500 | |
| LU | 3 | Paundi | Ipusukilo | Chipalo | 200 | A | dug well | scoop hole | good | sufficient | 30 | 5 | 5 | community themselves | . | . | . | . | . | . | yes | no | no | yes | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | labour,sand,stones | 3,000 | N/A | N/A | | |
| LU | 4 | Isandulula | Namukolo | Chipalo | 900 | A | dug well | scoop hole, spring | bad (muddy) | sufficient | 10 | 10 | 10 | community themselves | . | . | . | . | . | . | yes | no | no | no | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | labour | 1,000 | N/A | N/A | | |
| LU | 5 | Kapisha | Namukolo | Chipalo | 1,124 | A | stream | scoop hole, dug well | good | sufficient | 15 | 100 | 100 | community themselves | . | . | . | . | . | . | yes | no | no | no | no | no | no | yes | no | no | no | no | no | . | the villagers | no | N/A | sand,stones,cash | 1,000 | N/A | N/A | |
| LU | 6 | Mulala School | Kaela | Katuta | 286 | A | scoop hole | | bad | seasonal | 30 | . | . | . | . | . | . | . | . | . | yes | no | yes | yes | yes | no | no | yes | no | no | yes | no | no | . | the villagers | no | N/A | labour,sand,stones, moulding bricks | 5,000 | N/A | N/A | |
| LU | 7 | Chitwa School | Kaela | Katuta | 126 | A | spring | scoop hole | acceptable | sufficient | 8 | . | . | . | . | . | . | . | . | . | no | no | yes | yes | yes | no | no | no | no | no | no | no | no | . | school children | no | N/A | sand,stones | N/A | N/A | 2,000 | |
| LU | 8 | Mucheleka School | Masonde | Mucheleka | 361 | A | spring | scoop hole, dug well | bad | sufficient | 10 | 7 | 7 | community themselves | . | . | . | . | . | . | yes | no | yes | yes | no | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | sand,stones | N/A | N/A | 2,000 | |
| LU | 9 | Mpasa School | Itandashi | Katuta | 223 | A | scoop hole | | bad | seasonal | 10 | . | . | . | . | . | . | . | . | . | yes | no | yes | yes | yes | no | no | yes | yes | no | yes | no | no | . | the villagers | no | N/A | labour,sand,stones, moulding bricks | N/A | N/A | 5,000 | |
| LU | 10 | Chibiliti Community School | Bwalinde | Chabula | 348 | A | stream | scoop hole, spring | acceptable | not suffici | 10 | . | . | . | . | . | . | . | . | . | yes | no | yes | yes | yes | no | no | no | no | no | no | no | fertilizers | the villagers | no | N/A | sand | N/A | N/A | 5,000 | | |
| LU | 11 | Katuta Village | Munshinga | Katuta | 400 | A | scoop hole | borehole | bad | seasonal | 35 | 1 | 0 | community themselves | . | . | . | . | . | . | yes | yes | yes | yes | yes | yes | no | no | no | yes | no | no | no | . | the villagers | no | N/A | sand,stones,mouldin g bricks | N/A | N/A | 5,000 | |
| LU | 12 | Chifwile School | Chifwile | Shimumba | 250 | A | spring | scoop hole, dug well | acceptable | sufficient | 30 | 4 | 4 | community themselves | . | . | . | . | . | . | no | no | yes | yes | yes | 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 School | Chifwile | Shimumba | 234 | B | borehole | | good | sufficient | No Answer | . | . | . | . | 1 | 1 | India Mark II | DWA | 2001 | no | yes | yes | no | no | yes | no | no | no | no | no | no | no | . | V-WASHE/Water Committee | no | N/A | labour | 500 | N/A | N/A | |
| LU | 14 | Misambula School | Chifwila | Shimumba | 188 | A | scoop hole | | acceptable | sufficient | 15 | 1 | 0 | D-WASHE community themselves | 2003 | . | . | . | . | . | yes | no | yes | yes | yes | no | no | no | no | yes | yes | no | no | . | school children | no | N/A | labour,sand,stones | N/A | N/A | 5,000 | |
| LU | 15 | Kandata School | Mushitu | Shimumba | 234 | A | spring | scoop hole, spring | bad | sufficient | 40 | 1 | 1 | community themselves | . | . | . | . | . | . | yes | yes | yes | yes | no | yes | no | no | no | no | yes | no | no | . | nobody | no | N/A | labour,sand,mouldin g bricks | 1,000 | N/A | N/A | |
| LU | 16 | Luena Clinic | Luata | Shimumba | 200 | A | stream | dug well | bad | sufficient | 10 | 1 | 1 | GRZ community themselves | . | . | . | . | . | . | yes | no | yes | yes | no | no | no | yes | yes | yes | yes | no | no | no | . | school children, Council | no | N/A | labour,sand,stones | No Answer | No Answer | No Answer |
| LU | 17 | Mfungwe School | Isansa | Tungati | 368 | A | dug well | scoop hole | bad (muddy) | seasonal | 30 | 20 | 20 | community themselves | . | . | . | . | . | . | yes | yes | yes | no | no | no | no | no | no | no | yes | no | no | no | . | the villagers | no | N/A | labour,sand,stones | 500 | N/A | N/A |
| LU | 18 | Nsolo School | Isansa | Tungati | 106 | A | scoop hole | dug well | bad | sufficient | 30 | 5 | 4 | community themselves | . | . | . | . | . | . | no | no | yes | yes | no | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | labour,sand,mouldin g bricks | 2,000 | N/A | N/A | |
| LU | 19 | Washeni School | Mwelawamangu | Tungati | 216 | A | dug well | scoop hole | acceptable | sufficient | 40 | 12 | 12 | community themselves | . | . | . | . | . | . | yes | no | yes | yes | no | yes | no | no | no | no | yes | no | no | . | the villagers | no | N/A | labour,poles | 1,000 | N/A | N/A | |
| LU | 20 | Chibofwe (School) | M.wampangu | Tungati | 455 | A | spring | dug well | acceptable | sufficient | 10 | 5 | 5 | D-WASHE community themselves | . | . | . | . | . | . | yes | yes | yes | no | no | no | no | no | no | yes | no | no | no | home based care | the villagers | no | N/A | labour | N/A | N/A | 500 | |
| LU | 21 | Kabangala School | Kafinsa | Chungu | 221 | A | stream | | bad | not suffici | 30 | . | . | . | . | . | . | . | . | . | yes | no | yes | yes | no | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | labour,stones,mould ing bricks | N/A | N/A | 5,000 | |
| LU | 22 | Chakaba Village | Kafinsa | Chungu | 360 | B | dug well | | good | sufficient | 1 | 6 | 6 | community themselves | . | . | . | . | . | . | yes | no | no | no | no | no | no | no | no | no | no | no | no | . | the villagers | no | N/A | labour,sand,stones, moulding bricks | N/A | N/A | 16,000 | |
| LU | 23 | Malaya Village | Kafinsa | Chungu | 210 | B | dug well | | good | sufficient | 5 | 5 | 5 | community themselves | . | . | . | . | . | . | yes | yes | no | no | no | no | no | no | no | no | no | no | no | . | owners of wells | no | N/A | labour,sand | 1,000 | N/A | N/A | |
| LU | 24 | Mumba Village | Kapemba | Chungu | 394 | A | scoop hole | dug well | bad | sufficient | 30 | 1 | 1 | community themselves | 2000 | 1 | 0 | . | HIPC | 2002 | yes | yes | yes | yes | no | no | no | no | no | yes | no | no | no | construction of school | the villagers | no | N/A | labour,cash | 1,000 | N/A | N/A | |
| LU | 25 | Chabula School | Bwalinde | Chabula | 274 | A | scoop hole | | bad | seasonal | 60 | . | . | . | . | . | . | . | . | . | yes | yes | yes | no | yes | no | no | yes | no | no | no | no | no | . | the villagers | no | N/A | labour,sand,mouldin g bricks | 500 | N/A | N/A | |
| LU | 26 | Mwando School | Mwalinde | Chabula | 200 | A | scoop hole | | bad | seasonal | 10 | 1 | 0 | council | . | . | . | . | . | . | no | no | yes | yes | yes | no | no | yes | no | no | no | no | no | . | the villagers | no | N/A | labour,sand | 2,000 | N/A | N/A | |
| LU | 27 | Shindaila Village | Kafinsa | Chungu | 275 | A | stream | | bad | sufficient | 30 | . | . | . | . | . | . | . | . | . | yes | no | yes | yes | yes | no | no | yes | no | no | yes | no | no | . | nobody | no | N/A | sand,stones,mouldin g bricks | N/A | N/A | 5,000 | |
| LU | 28 | Lundu School | Ibale | Chanika | 520 | A | spring | dug well | bad | seasonal | 10 | 1 | 1 | . | . | . | . | . | . | . | no | no | yes | yes | no | no | no | yes | no | no | no | yes | no | no | assisting orphans | Health Committee | no | N/A | labour,stones,in kind | 1,000 | N/A | N/A |
| LU | 29 | Nsombo Village | Lupososhi | Chabula | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Ap 5-3 Questionnaires Used for Socio-Economic Survey

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

Village Inventory Survey

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

Village Survey Sheet

Ref. No. _____ Date of Survey _____ / _____ / 2003

Name of Interviewer _____

Name of Key Informant _____ Number of People Gathered M ____ F ____

A. GENERAL INFORMATION

| | | |
|------|------------------------------------|--|
| 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. ACCESSIBILITY TO THE VILLAGE

| | | | |
|------|---|--|-------------------------------------|
| B-1. | Accessibility by drilling rigs | Accessible in all season _____ Not accessible _____ | Accessible only in dry season _____ |
| B-2. | Type of Approach Road | Tarmac _____ Gravel _____ Mud _____ Bush road _____ | |
| B-3. | Need to cross: | Dambo _____ Stream _____ River _____ Rocky areas _____ Hills _____ | |
| B-4. | Is bush clearing required to approach the site with a drilling rig? | Yes _____ No _____ | |

C. POPULATION DETAILS

| | | | |
|------|--------------------------------|-------------|----------------------------------|
| C-1. | Population of the Village | _____ | Ratio: Male _____% Female _____% |
| C-2. | Number of Households | Total _____ | Average No. of HH Members _____ |
| C-3. | No. of Female-Headed Household | _____ | |
| C-4. | No. of Child-Headed Household | _____ | |

D. SOCIAL INFRASTRUCTURE IN THE VILLAGE

Q. What kind of public facilities are there in the village?

| | | |
|------|-------------------------|---|
| D-1. | Health Facility | Rural Health Centre _____ Health Post _____ Others (_____) |
| D-2. | School | Basic School _____ No. of Pupils _____ High School _____ No. of Pupils _____ Community School _____ No. of Pupils _____ |
| D-3. | Other Public Facilities | Church _____ Market _____ Cooperative _____ Depot _____ Administrative Office _____ Others (_____) |

E. ECONOMIC ACTIVITIES

| | | | | |
|------|---|-------------------------------|--------------------|-------------------------|
| E-1. | What is the main income source for community members in the village? (multiple answer) | Agriculture Others (_____) | Fishing | Cattle Rearing |
| E-2. | What are the major crops of agriculture? (multiple answer) | Maize Finger Millet | Sorghum Cassava | Beans Others (_____) |
| E-3. | What kind of livestock is reared in the village? (multiple answer) | Cattle Pigs | Goats Chickens | Donkeys |

F. EXISTING WATER SOURCES

| | | | | | |
|------|--|---|-----------------------------------|--|--------------|
| F-1. | Which water source do community members mainly use for drinking water? | Scoop hole Dug Well Others (_____) | Stream Borehole | Pond Spring | Dambo Dam |
| F-2 | Which water source do community members mainly use for washing? | Scoop hole Dug Well Others (_____) | Stream Borehole | Pond Spring | Dambo Dam |
| 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 Not sufficient | available month (_____) | | |
| 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 Lined with concrete/ bricks/ wood Bucket Apron Handpump Others (_____) | Windlass Drainage Wind mill | Parapet Soak-away Submersible Pump | Rope/ Chain |
| 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 _____ Which organization assisted construction? _____ When was it constructed? _____ | | | |
| F-9 | What is the reason for out of use of hand dug wells or boreholes, if any? | Water is not available from the source. Pumping devise is not working. The facility is located too far from the village. Quality of water is not sufficient. Others (_____) | | | |

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 pit latrine Improved pit latrine with concrete slab VIP latrine Nothing | | |
| 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 implemented? | Construction of school/ health post Construction/ rehabilitation of road/ bridge Construction/ rehabilitation of water facility Others (_____) | | | |
| H-3. | If Yes to H-1, what kind of resources did the community members contribute to implement and maintain the activities? | Labour Materials (Specify _____) Cash (K_____ per household/ person) Others (_____) | | | |
| H-4. | What are common issues for the community to improve their living condition? (specify the order of priority) | Education Agriculture Others (_____) | Health Transport | Sanitation | Water |
| H-5. | Is there community-based organization in the village? | Yes | No | | |
| H-6. | If Yes to H-5, what type of organization is it? (multiple answer) | Village Development Committee Cooperative V-WASHE | PTA Water Committee | Health Committee | |
| H-7. | How is the status of participation of women in the community-based organization? | More than 50% of members Less than 50% of members 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 implemented by the external organization? | Health education Construction of water facilities Distribution of food/ seeds Literacy class Others (_____) | Construction of latrine Skill training Micro credit | | |

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? | 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 facility? | K_____ / 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 |

Sample Household Survey

Questionnaire for Sample Household Survey

Interview No. _____ Date of Survey / / 2003 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 Household

| | | |
|------|--|--|
| 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 source selected in B-2? | <div>[1] Sufficient throughout a year</div> <div>[2] Seasonal</div> <div>[3] Not sufficient throughout a year</div> | | | | | | | | | | | |
| B-8. | If the answer to B-7 is [2] Seasonal, which month is the water available? | J | F | M | A | M | J | J | A | S | O | N | D |
| 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? | <div></div> <div></div> | | | | | | | | | | | |
| B-10 | How long does it take to reach to the water source from your house? | <div>[1] less than 15 minutes</div> <div>[2] 15-30 minutes</div> <div>[3] 30-60 minutes</div> <div>[4] more than 60 minutes</div> | | | | | | | | | | | |
| B-11. | How long do you have to queue up before you get your turn to fetch water? | <div>[1] less than 15 minutes</div> <div>[2] 15-30 minutes</div> <div>[3] 30-60 minutes</div> <div>[4] more than 60 minutes</div> | | | | | | | | | | | |
| B-12. | How often does your household fetch water in a day from the water source? | <div>[1] once a day</div> <div>[2] twice a day</div> <div>[3] 3 times a day</div> <div>[4] Others (specify _____)</div> | | | | | | | | | | | |
| B-13. | What kind of vessel does your household use to fetch and carry water? | <div>[1] Container with a lid</div> <div>[2] Container without a lid</div> <div>[3] Bucket with a lid</div> <div>[4] Bucket without a lid</div> <div>[5] Wash basin</div> <div>[6] Others (_____)</div> | | | | | | | | | | | |
| B-14. | How much water does your household use per day on average? | _____ containers/ buckets | | | | | | | | | | | |
| B-15. | Is the quantity of water enough for drinking and cooking purposes? | <div>[1] Yes</div> <div>[2] No</div> | | | | | | | | | | | |
| B-16. | Who usually collect water in your household? (multiple answer) | <div>[1] Adult men</div> <div>[2] Adult women</div> <div>[3] Boy child</div> <div>[4] Girl child</div> <div>[5] Water vendors</div> <div>[6] Others (Specify _____)</div> | | | | | | | | | | | |
| B-17. | Do you use separate water source for washing and gardening from the one for drinking water? | <div>[1] Yes</div> <div>[2] No</div> | | | | | | | | | | | |
| B-18. | If yes to B-17, which water source do you use for washing and gardening? | <div>[1] Scoop hole</div> <div>[2] Stream</div> <div>[3] Pond</div> <div>[4] Dambo</div> <div>[5] Dug well</div> <div>[6] Borehole</div> <div>[7] Spring</div> <div>[8] Dam</div> <div>[9] Others (Specify _____)</div> | | | | | | | | | | | |
| B-19. | Could you briefly describe problems you are facing related to present water supply condition? | <div></div> <div></div> | | | | | | | | | | | |

C. Existing Sanitation Facilities for the Household

| | | | |
|-------|---|---|--|
| C-1. | Which type of sanitation facility does your household have? | [1] Pit latrine [3] VIP latrine [5] Others (_____) | [2] Improved pit latrine with concrete slab [4] Nothing |
| 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 [3] VIP latrine [4] Others (_____) | [2] Improved pit latrine with concrete slab |
| C-5. | Which type of sanitation facilities does your household own apart from the latrine? (multiple answer) | [1] Refuse pit [3] Hand washing facility [4] Others (specify _____) | [2] Dish rack |
| C-6. | When do you normally wash your hands? (multiple answer) | [1] Before cooking [3] After going to the latrine [5] Others (specify: _____) | [2] Before eating [4] After working outside |
| C-7. | How do you wash your hands? | [1] In the basin [3] Pour water from a cup [4] Others (specify: _____) | [2] Outside the basin |
| 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 [3] Filtering [5] Pouring ash in and allowing it to settle [6] Others (Specify _____) | |
| | | [2] Putting chlorine [4] Allowing it to settle | |

D. Health Status of Members of Household

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

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? | <hr/> <hr/> | | |

E. Maintenance of Water and Sanitation Facilities

| | | | | |
|------|--|--|--------|-------------|
| E-1. | Is your household supposed to pay for operation and maintenance cost of the water facility which your household uses for drinking water? | [1] Yes | [2] No | [3] Unknown |
| E-2. | If yes to E-1, how much is your household supposed to pay? | K_____ per month/ year | | |
| E-3. | If yes to E-1, does your household actually pay for the cost? | [1] Yes | [2] No | |
| E-4. | If No to E-3, what is the reason for your household not to pay? | | | |
| E-5. | Who is usually maintaining water source which your household uses for drinking water? | [1] Water committee [2] Nobody [3] Others (Specify _____) | | |
| E-6. | Who is responsible for repairs of the water facility when it breaks down? | [1] Water committee [2] District officers [3] Nobody [4] Others (Specify _____) | | |
| E-7. | Has your household ever tried to improve water facility by your own effort? | [1] Yes | [2] No | |
| E-8. | If Yes to E-7, how did you try to improve the existing water facility for your household? And why? | <hr/> <hr/> | | |

Sample Household Survey

| | | |
|-------|---|--|
| E-9. | Has your household ever tried to improve sanitation facility by your own effort? | [1] Yes [2] No |
| E-10. | If Yes to E-9, how did you try to improve existing sanitation facility for your household? And why? | _____ |
| E-11. | Would you be willing to contribute in cash for construction and maintenance of communal improved water supply facility if it happens in your village? | [1] Yes [2] No |
| E-12. | If Yes to E-11, how much could your household pay as a maintenance fund for improved communal water facility? | K _____ per month/ year |
| E-13. | Would you be willing to contribute in kind for construction and maintenance of communal improved water supply facility if it happens in your village? | [1] Yes [2] No |
| E-14. | If Yes to E-13, what kind of materials can you household contribute for construction of communal improved water facility? (multiple answer) | [1] burnt bricks [2] sand [3] crushed stone [4] poles [5] Others (_____) |
| E-15. | What is your priority on the areas mentioned below concerning improvement of your living condition? (Please put number from high priority.) | Health [] Education [] Water [] Latrine facility [] Meeting place [] Others (specify _____) |

F. Economic Status of the Household

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| F-1. | What is the main income source of your household? (multiple answer) | [1] Farming [2] Cattle rearing [3] Fishing [4] Trading [5] Piece work [6] Hand craft [7] Others (_____) | | | | | | | | | | | | | | | | | | | | | | | | |
| F-2. | When can you get cash income in a year? | <table border="1"> <tr> <td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> | J | F | M | A | M | J | J | A | S | O | N | D | | | | | | | | | | | | |
| J | F | M | A | M | J | J | A | S | O | 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 _____ / month | | | | | | | | | | | | | | | | | | | | | | | | |
| F-7. | How many members in your household earn a living? | [1] Adult men [] [2] Adult women [] [3] Boy child [] [4] Girl child [] | | | | | | | | | | | | | | | | | | | | | | | | |

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

| Site No. | Site Name | D-WASHE Priority | Project Priority | Screening to Assess Feasibility for Project Implementation | | | | | | | | Selection of Project Candidate Sites | Summary of Status of the Site |
|---|-------------------------|------------------|------------------|--|-----------|---------------|----------------------------|----------------------------|-------------|--------------------|--|--------------------------------------|-------------------------------|
| | | | | Field survey | Pop.> 100 | Accessibility | Condition of Water Supply | | Willingness | Other Intervention | Results of Selection of Feasible Sites | Existing CBOs in water or health | |
| | | | | | | | Existing Main Water Source | Other Available Sources | | | | | |
| MK 22 | Malambwa Village | 2 | 1 | Y | 1326 | A | dug well | borehole | Y | N | Y | Y | Project Candidate Site |
| MK 20 | Ifunda Village | 5 | 2 | Y | 510 | A | scoop hole | | Y | N | Y | Y | Project Candidate Site |
| MK 19 | Kaluba Village | 6 | 3 | Y | 2500 | A | scoop hole | stream | Y | N | Y | Y | Project Candidate Site |
| MK 7 | Katongo Kapala | 7 | 4 | Y | 600 | A | stream | | Y | N | Y | Y | Project Candidate Site |
| MK 8 | Mwateshi | 8 | 5 | Y | 130 | A | scoop hole | | Y | N | Y | Y | Project Candidate Site |
| MK 26 | Kaole Village | 12 | 6 | Y | 1812 | A | scoop hole | dug well, borehole | Y | N | Y | Y | Project Candidate Site |
| MK 32 | Mukungule Palace | 13 | 7 | Y | 243 | A | scoop hole | borehole, dug well, stream | Y | N | Y | Y | Project Candidate Site |
| MK 17 | Chobela Village | 15 | 8 | Y | 105 | A | scoop hole | stream | Y | N | Y | Y | Project Candidate Site |
| MK 15 | Chobela School | 16 | 9 | Y | 250 | A | dug well | scoop hole, stream | Y | N | Y | Y | Project Candidate Site |
| MK 16 | Chishala Village | 17 | 10 | Y | 156 | A | scoop hole | stream | Y | N | Y | Y | Project Candidate Site |
| MK 14 | Chishala School | 18 | 11 | Y | 226 | A | stream | | Y | N | Y | Y | Project Candidate Site |
| MK 11 | Lufila Village | 19 | 12 | Y | 185 | A | stream | | Y | N | Y | Y | Project Candidate Site |
| MK 6 | Ngwai | 23 | 13 | Y | 205 | A | dug well | | Y | N | Y | Y | Project Candidate Site |
| MK 29 | Luchembe Village | 24 | 14 | Y | 1200 | A | dug well | scoop hole | Y | N | Y | Y | Project Candidate Site |
| MK 31 | Chakopo Village | 29 | 15 | Y | 3000 | A | dug well | | Y | N | Y | Y | Project Candidate Site |
| MK 24 | Chambeshi Village | 33 | 16 | Y | 2214 | A | stream | | Y | N | Y | Y | Project Candidate Site |
| MK 21 | Mufubushi Village | 34 | 17 | Y | 100 | A | stream | | Y | N | Y | Y | Project Candidate Site |
| MK 1 | Kapoko | 35 | 18 | Y | 800 | A | borehole | stream | Y | N | Y | Y | Project Candidate Site |
| MK 4 | Mpumba Village | 37 | 19 | Y | 600 | A | stream | | Y | N | Y | Y | Project Candidate Site |
| MK 5 | Lukulu Village | 38 | 20 | Y | 360 | A | scoop hole | stream | Y | N | Y | Y | Project Candidate Site |
| MK 33 | Chikole Village | 44 | 21 | Y | 455 | A | scoop hole | | Y | N | Y | Y | Project Candidate Site |
| MK 40 | New Kamwanya | 1 | 22 | Y | 8500 | A | public tap | | Y | N | Y | | Alternative Site |
| MK 34 | Chikwanda Village | 3 | 23 | Y | 800 | A | stream | | Y | N | Y | | Alternative Site |
| MK 18 | Mwamfushi Village | 4 | 24 | Y | 2000 | A | dug well | | Y | N | Y | | Alternative Site |
| MK 35 | Mundemwa School | 11 | 25 | Y | 728 | A | spring | | Y | N | Y | | Alternative Site |
| MK 10 | Mukungule Village | 14 | 26 | Y | 200 | B | scoop hole | | Y | N | Y | | Alternative Site |
| MK 44 | Kashaita Village | 21 | 27 | Y | 800 | A | stream | | Y | N | Y | | Alternative Site |
| MK 45 | Kashila Village | 22 | 28 | Y | 1000 | A | dambo | dug well | Y | N | Y | | Alternative Site |
| MK 28 | Aluni Village | 25 | 29 | Y | 1300 | A | scoop hole | | Y | N | Y | | Alternative Site |
| MK 27 | Ndakala Village | 26 | 30 | Y | 300 | A | stream | | Y | N | Y | | Alternative Site |
| MK 38 | Kopa School | 27 | 31 | Y | 573 | A | dug well | borehole | Y | N | Y | | Alternative Site |
| MK 37 | Kopa Village | 28 | 32 | Y | 1200 | A | dug well | borehole | Y | N | Y | | Alternative Site |
| MK 36 | Chikakala Village | 30 | 33 | Y | 265 | A | dug well | borehole | Y | N | Y | | Alternative Site |
| MK 25 | Kamulamwiko Village | 31 | 34 | Y | 1000 | A | dug well | | Y | N | Y | | Alternative Site |
| MK 23 | Mpepo Village | 32 | 35 | Y | 2000 | A | stream | dug well | Y | N | Y | | Alternative Site |
| MK 3 | Mpumba School | 36 | 36 | Y | 546 | A | stream | | Y | N | Y | | Alternative Site |
| MK 30 | Chisengo | 43 | 37 | Y | 516 | A | dug well | scoop hole | Y | N | Y | | Alternative Site |
| MK 2 | Chilonga | 9 | | Y | 465 | A | public tap | | Y | N | N (Existing water facilities sufficient) | | Excluded |
| MK 9 | Chisongo Village | 10 | | Y | 1000 | A | public tap | scoop hole | Y | N | N (Existing water facilities sufficient) | | Excluded |
| MK 12 | Kakoko Village | 20 | | Y | 95 | B | stream | | Y | N | N (Population too small) | | Excluded |
| MK 13 | Chifinshi Village | 42 | | Y | 1715 | C | dug well | | Y | N | N (Inaccessible) | | Excluded |
| MK 39 | Mpandafishala Community | 45 | | N | | | | | Y | N | N (no target community) | | Excluded |
| MK 41 | Chiundaponde Village | 39 | | N | | | | | Y | N | N (not surveyed) | | Excluded |
| MK 42 | Chiundaponde School | 40 | | N | | | | | Y | N | N (not surveyed) | | Excluded |
| MK 43 | Chiundaponde RHC | 41 | | N | | | | | Y | N | N (not surveyed) | | Excluded |
| No. of Project Candidate Sites/No. of Requested Sites | | | | | | | | | | | 21/45 | | |

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.

Duplication with other interventions Y: There is duplication on the project site with other intervention N: No duplication 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 third 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

| Site No. | Site Name | D-WASHE Priority | Project Priority | Screening to Assess Feasibility for Project Implementation | | | | | | | | Selection of Project Candidate Sites | | Summary of Status of the Site |
|---|----------------------|------------------|------------------|--|-----------|-----------------|----------------------------|-------------------------|-------------|--------------------|--|--------------------------------------|------------------------|-------------------------------|
| | | | | Field survey | Pop.> 100 | Access sibility | Condition of Water Supply | | Willingness | Other Intervention | Results of Selection of Feasible Sites | Existing CBOs in water or health | | |
| | | | | | | | Existing Main Water Source | Other Available Sources | | | | | | |
| CH 4 | Kalela Village 1 | 1 | 1 | Y | 1000 | A | stream | dug well | Y | N | Y | Y | Project Candidate Site | |
| CH 21 | Kantimba School | 2 | 2 | Y | 272 | A | spring | stream | Y | N | Y | Y | Project Candidate Site | |
| CH 30 | Kalisha School | 6 | 3 | Y | 510 | A | stream | | Y | N | Y | Y | Project Candidate Site | |
| CH 24 | Musonko School | 8 | 4 | Y | 272 | B | pond | | Y | N | Y | Y | Project Candidate Site | |
| CH 22 | Vitondo School | 9 | 5 | Y | 229 | A | spring | | Y | N | Y | Y | Project Candidate Site | |
| CH 6 | Nambuluma Village | 10 | 6 | Y | 575 | A | dug well | stream, borehole | Y | N | Y | Y | Project Candidate Site | |
| CH 27 | Kapashi Village | 12 | 7 | Y | 574 | B | stream | pond | Y | N | Y | Y | Project Candidate Site | |
| CH 31 | Shimwalule School | 13 | 8 | Y | 300 | A | dug well | | Y | N | Y | Y | Project Candidate Site | |
| CH 33 | Chipunga School | 14 | 9 | Y | 238 | A | stream | | Y | N | Y | Y | Project Candidate Site | |
| CH 10 | Kalela Village 2 | 15 | 10 | Y | 1000 | A | stream | dug well | Y | N | Y | Y | Project Candidate Site | |
| CH 34 | Mupeka School | 16 | 11 | Y | 200 | A | stream | | Y | N | Y | Y | Project Candidate Site | |
| CH 16 | Mungulube School | 17 | 12 | Y | 315 | A | scoop hole | | Y | N | Y | Y | Project Candidate Site | |
| CH 14 | Sele School | 18 | 13 | Y | 211 | A | scoop hole | | Y | N | Y | Y | Project Candidate Site | |
| CH 13 | Chinkalanga School | 19 | 14 | Y | 287 | A | stream | | Y | N | Y | Y | Project Candidate Site | |
| CH 9 | Chabala Village | 21 | 15 | Y | 400 | A | dug well | | Y | N | Y | Y | Project Candidate Site | |
| CH 7 | Mulanga Village | 22 | 16 | Y | 776 | A | spring | public tap | Y | N | Y | Y | Project Candidate Site | |
| CH 11 | Chibesakunda School | 23 | 17 | Y | 600 | A | furrow | stream, dug well | Y | N | Y | Y | Project Candidate Site | |
| CH 12 | Kabangama School | 24 | 18 | Y | 327 | A | stream | | Y | N | Y | Y | Project Candidate Site | |
| CH 19 | Mwalala School | 25 | 19 | Y | 500 | A | stream | | Y | N | Y | Y | Project Candidate Site | |
| CH 18 | Chibesa School | 26 | 20 | Y | 348 | A | stream | | Y | N | Y | Y | Project Candidate Site | |
| CH 26 | Mukwikile Palace | 28 | 21 | Y | 125 | A | scoop hole | stream, dug well | Y | N | Y | Y | Project Candidate Site | |
| CH 29 | Kapisha School | 29 | 22 | Y | 231 | A | stream | | Y | N | Y | Y | Project Candidate Site | |
| CH 32 | Cheswa School | 30 | 23 | Y | 270 | A | dug well | | Y | N | Y | Y | Project Candidate Site | |
| CH 1 | Mubanga Village | 31 | 24 | Y | 568 | A | stream | | Y | N | Y | Y | Project Candidate Site | |
| CH 3 | Musanya School | 32 | 25 | Y | 267 | A | stream | dug well | Y | N | Y | Y | Project Candidate Site | |
| CH 15 | Lubwa Village | 33 | 26 | Y | 800 | A | scoop hole | pond | Y | N | Y | Y | Project Candidate Site | |
| CH 2 | Mpyanavwalya Village | 34 | 27 | Y | 700 | A | scoop hole | | Y | N | Y | Y | Project Candidate Site | |
| CH 36 | Chilunda School | 3 | 28 | Y | 370 | A | dug well | | Y | N | Y | | Alternative Site | |
| CH 5 | Lubu Scheme | 5 | 29 | Y | 216 | A | dug well | stream | Y | N | Y | | Alternative Site | |
| CH 28 | Mukungwa School | 7 | 30 | Y | 230 | A | stream | | Y | N | Y | | Alternative Site | |
| CH 17 | Poya School | 11 | 31 | Y | 237 | A | stream | | Y | N | Y | | Alternative Site | |
| CH 8 | Musapa Village | 20 | 32 | Y | 310 | A | stream | | Y | N | Y | | Alternative Site | |
| CH 23 | Matumbo Village | 27 | 33 | Y | 2150 | A | stream | dug well | Y | N | Y | | Alternative Site | |
| CH 25 | Choshi Village | 35 | 34 | Y | 3000 | A | dug well | public tap | Y | N | Y | | Alternative Site | |
| CH 20 | Chandamali Village | 36 | 35 | Y | 2000 | A | public tap | dug well | Y | N | Y | | Alternative Site | |
| CH 35 | Bwinambo School | 4 | | N | | | | | Y | N | N (not surveyed) | | Excluded | |
| No. of Project Candidate Sites/No. of Requested Sites | | | | | | | | | | | | 27/36 | | |

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.

Duplication with other interventions Y: There is duplication on the project site with other intervention N: No duplication 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 third 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

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

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.

Duplication with other interventions Y: There is duplication on the project site with other intervention N: No duplication 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 third 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

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

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.

Duplication with other interventions Y: There is duplication on the project site with other intervention N: No duplication 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 third 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

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

Note:

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

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Duplication with other interventions Y: There is duplication on the project site with other intervention N: No duplication 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

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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 third 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

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

Note:

- 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.
 Duplication with other interventions Y: There is duplication on the project site with other intervention N: No duplication on the project site
 Results of Selection of Feasible Sites Y: Feasible sites N: Excluded from the project
- 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.
- 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 third 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.

(7) LUWINGU DISTRICT

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

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- 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.
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 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 | 5,206,000 | 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 members |
| Activity No. 4-1) | Orientation for Training to Area Mechanics on Repair and Maintenance of Borehole Facilities fitted with Handpumps | 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 | Provincial Local Government Office, Northern Province | 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 |