

Kujenga Maisha East Africa (KUMEA)

Project Completion Report



- Project Identification & Community Mobilization
- Formation of Self Help Groups & Capacity Building
- Drilling of Boreholes & Installation of Pumps
- Training Community in Hygiene & Sanitation



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1.0 EXECUTIVE SUMMARY

Safe and secure water is essential to poor people's survival and health, hence the need for this project. Providing water security can play a wider role in poverty reduction and improving livelihoods. Improved domestic water supplies and improved institutions surrounding them bring multiple benefits: they reduce sickness, save time, generate income, enhance food security, strengthen local organizations and build cooperation between people. Before the water project, the women hauled water to the houses from scoop holes in dry river beds. It was used for food preparation, drinking and bathing the young children, as well as for domestic animals: cows, chicken and goats.



Left: The Community of Kamuwongo in Mwingi district drawing water from scoop holes in a dry river bed. **Below:** A donkey brings water home from the river.



This report describes the details for the project: drilling 10 deep boreholes rehabilitating 1 existing borehole, digging 1 shallow well and Connection of a school to a community water source in Mwingi, Kenya. The project was funded by [Help-Hilfe Zur Selbsthilfe](#). The project involved the actual drilling, test pumping, civil works and pump installation to supply the communities with safe and clean water. It also covered the capacity building of the benefiting communities in operating and maintaining the water sources in such a way that the sustainability of the sources is guaranteed. KUMEA is the implementing Partner who has been responsible for community mobilisation, supervision, monitoring and reporting.

2.0 BACKGROUND OF THE IMPLEMENTING PARTNER - KUMEA

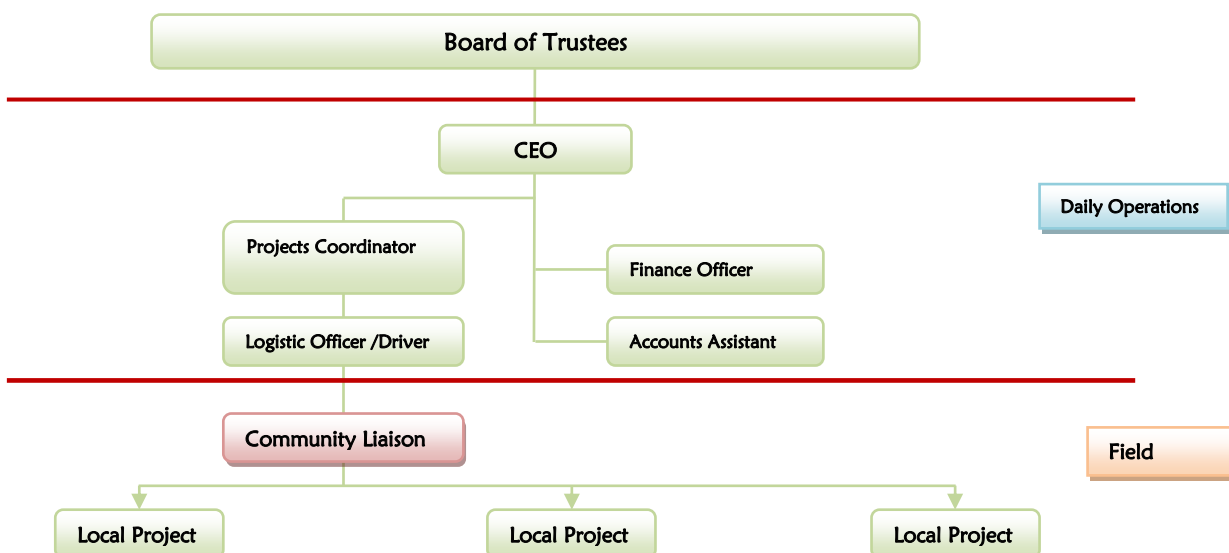
Kujenga Maisha East Africa (KUMEA) was established and registered in Kenya in 2010 as an NGO for the New Apostolic Church; East Africa District. It grew out of the Relief and humanitarian activities of the church that had been going on for several years. Kumea observes that poor climatic conditions are major contributors to rural poverty in East Africa.

Although KUMEA is a Faith based NGO, it operates beyond the boundaries of the New Apostolic church. It brings together people of all faiths and persuasions without discrimination. KUMEA seeks to improve the living conditions of vulnerable members of the community through developmental activities. It is a vehicle through which an organization or individual can contribute towards sustainable development in the communities of East Africa. The Objectives of KUMEA include:-

- Enhancing agricultural crop and animal yield through modern, innovative, cost effective and efficient farming techniques and improving sanitation
- Employing agricultural extension officers to train adult Kenyans in modern farming techniques and assisting them acquire managerial skills;
- Drilling boreholes and erecting water catchments reservoirs
- Distributing farm implements free or at subsidized cost to individual or collective members of the beneficiary communities, and actively initiating or participating in activities and projects aimed at economic empowerment of the people within the organisation’s sphere of operation.
- Engaging members and the general public in environmental conservation efforts and sensitization.

2.1 The Organization

KUMEA currently has 4 board members and 4 permanent staff based in the Nairobi office. The board oversees the running of the organization. Community Liaison officers are volunteers responsible for coordinating the activities of common Interest groups and liaising with the secretariat.



3.0 PROJECT OVERVIEW

3.1 Project Area Description

Mwingi district is in Kitui County. The entire county of Kitui has only 20 per cent of its population accessing improved sources of drinking water. The main source of drinking water is surface water accounting for about 69 per cent of users. Majority of the households take more than one hour for a round trip to collect water and the average time to the source of drinking water is estimated as 2 hrs (KNBS Survey 2008).

Most schools in Mwingi have no access to clean and safe water. Classes take it in turn to go down to scoop holes in dry river beds to collect water for the rest of the school. As a result, many hours are lost without lessons and this affects the general performance of the children. Teachers’ and

pupils' punctuality are greatly affected by water scarcity in schools as most of the morning hours are spent in searching for water.

3.2 Project Goal

To improve the health and quality of life of Mwingi community by providing access to sustainable water sources. The project contributes directly to the Millennium Development Goal 7.

3.3 Project Objectives

- To drill 10 deep boreholes, rehabilitate 1 existing borehole, dig one shallow well and connect one school to an existing water source.
- Increase availability of safe drinking water by 20 litres per day per household to up to 9000 households in Mwingi (exact number yet to be verified)
- Establish and train 9 water and sanitation committees comprising 10 people elected by water users.
- To construct 2 water selling kiosks one at Kaundu school and the other at Kyandali

3.4 Project Location

Mwingi district lies in Kitui County of Kenya. It is an area that is characterized by constant droughts.

3.5 Origin of the Project

The needs being addressed by this project were primarily identified by the KUMEA regional committee in the target areas in collaboration with the community leaders of Mwingi. KUMEA received a list of preferred villages for assistance. Later, KUMEA program manager visited the district together with *Help-Hilfe zur Selbsthilfe* counterparts and assessed the water and sanitation situation in Mwingi. The communities confirmed that lack of water has been a major hindrance to their development. KUMEA also observed that the type of water they were drinking was not good for their health.

3.6 Community Participation

KUMEA has involved the community participation in the following ways:

- Contribution of land
- Educating the community members on safe use of water
- Establishment of Self Help Groups that will ensure the sustainability of the project

3.7 Expected Results

- The number of people using safe and adequate drinking water has increased
- The number of children under 5 years old in the project area suffering from water borne diseases is expected to reduce.
- Health standards for villagers will improve through provision of clean water
- Livestock are receiving Water

3.8 Sustainability of the Project

The sustainability of Mwingi water project is based on the following:

- KUMEA has mobilized the community to form Self help groups that are overseeing the overall running and management of the boreholes. These Self Help groups are also responsible for collecting membership and regular fees from the community.
- A fee is charged for watering the animals

4.0 PROJECT PLANNING AND IMPLEMENTATION

Community Self Help Groups ensured full participation of the community at different stages of the project. KUMEA provided a project team that could oversee the planning and implementation phases. KUMEA got the boreholes drilling company and water pump Supply Company; it also coordinated the entire project while seeking technical advice from the experts.

The project has provided education to the local communities regarding sanitation and hygiene. For every borehole a borehole committee has been formed and educated in operating and maintaining the boreholes financially and technically.

4.1 Project Identification & Community Mobilization



Meeting with the community at Katse



Meeting with the community at Mukonga



Waita Community Preparing the site for Drilling



Students of Kaundu School Scooping Water from a dry river bed

4.2 Formation of Self Help Groups & Capacity Building

Capacity building process of the Water User Associations was conducted for two days from 16th May, 2012 to 17th May, 2012 involving 46 participants at Matuu Ndallas Hotel. The workshop was based on the following key objectives;

- To orient Water User Association leaders on Management and implementation of community Water projects
- Foster understanding of financial management principles to enhance sustainability of community water project
- Share experiences in implementation of water and sanitation projects
- Develop community action plans for implementation of water and sanitation projects

The assignment was confined to thirteen 13 Project sites identified by KUMEA in Kitui County and the areas around Thika Municipality for provision of safe water via drilling of boreholes and a shallow well.

The workshop process was facilitated based on participatory and interactive methods of learning and covering a wide scope of sessions focusing on the key aspects of water user management and registration of water user associations.

The methods used in the workshop ranged from group discussions, plenary presentations, pairing, role plays/drama and relevant video documentaries on water development and environmental health.

The process has immensely achieved the following;

- Enhanced community management and leadership principles for the Water User Associations in the thirteen identified water projects
- Understanding of the water sector reforms, rationale and their key roles in project implementation
- Appreciation of their involvement in implementation and coordination of project activities
- Willingness to mobilize community members to participate actively in project activities
- Understanding of the key objectives of the water projects and the role of KUMEA in facilitating the implementation of the water projects
- Appreciated the role of women in enhancing water development and the need to address the gender disparity gaps
- Understood the evolution of development groups and the need to support the systematic growth of their own groups through effective leadership and cohesion



Participants of the two day Workshop at Matuu



Participants of the two day Workshop at Matuu making Work Plans

4.3 Training Community in Hygiene & Sanitation

KUMEA organized hygiene and sanitation orientation for all project water points. Communities participated actively. The objective of the learning event was as follows;

- Improve community hygiene and sanitation status to enhance effective use of water points
- Enhance improved sanitation coverage to facilitate better access to sanitation
- Reduce contamination of water from water points to homes for domestic use
- Facilitate better understanding of good hygiene and sanitation behaviors thus reduce bad hygiene behaviors among the communities
- Preparation of key hygiene and sanitation resolutions and action plans to stimulate hygiene and sanitation promotion at various project sites.

The learning process at the project sites involved group discussions with various hygiene and sanitation promotion tools. The key tools applied include the following; Faecal Oral routes, Faecal Barriers, Barrier Matrix, hygiene and sanitation behaviour analysis based on 3-pile sorting cards, Sanitation assessment based on sanitation ladders, Participatory mapping for water and sanitation, Planning for change based on story with a gap tools and water contamination cycle to reduce water contamination from water point to households.

Communities participated actively in the learning sessions with communities appreciating the exercise and prepared action plans/resolutions to be undertaken. The process has achieved the following;

- Communities have understood their sanitation situation and realized the need to improve sanitation coverage to reduce diarrhea diseases in the respective project sites.
- Better understanding on adapting positive hygiene and sanitation behaviors to reduce contamination
- Points of water contamination from water point to households and how they could be tackled /addressed
- Collective responsibility in hygiene and sanitation improvements with participation of households and water committees officials i.e. Digging of latrines on merry-go round basis
- The need to ensure water collection in clean containers and fencing of the water points to reduce contamination from animals.

The action plans developed by each water project communities reflect their need to improve the hygiene and sanitation situation in the respective communities.



Hygiene & sanitation Training at Nguni



Hygiene & sanitation Training at Kyandali

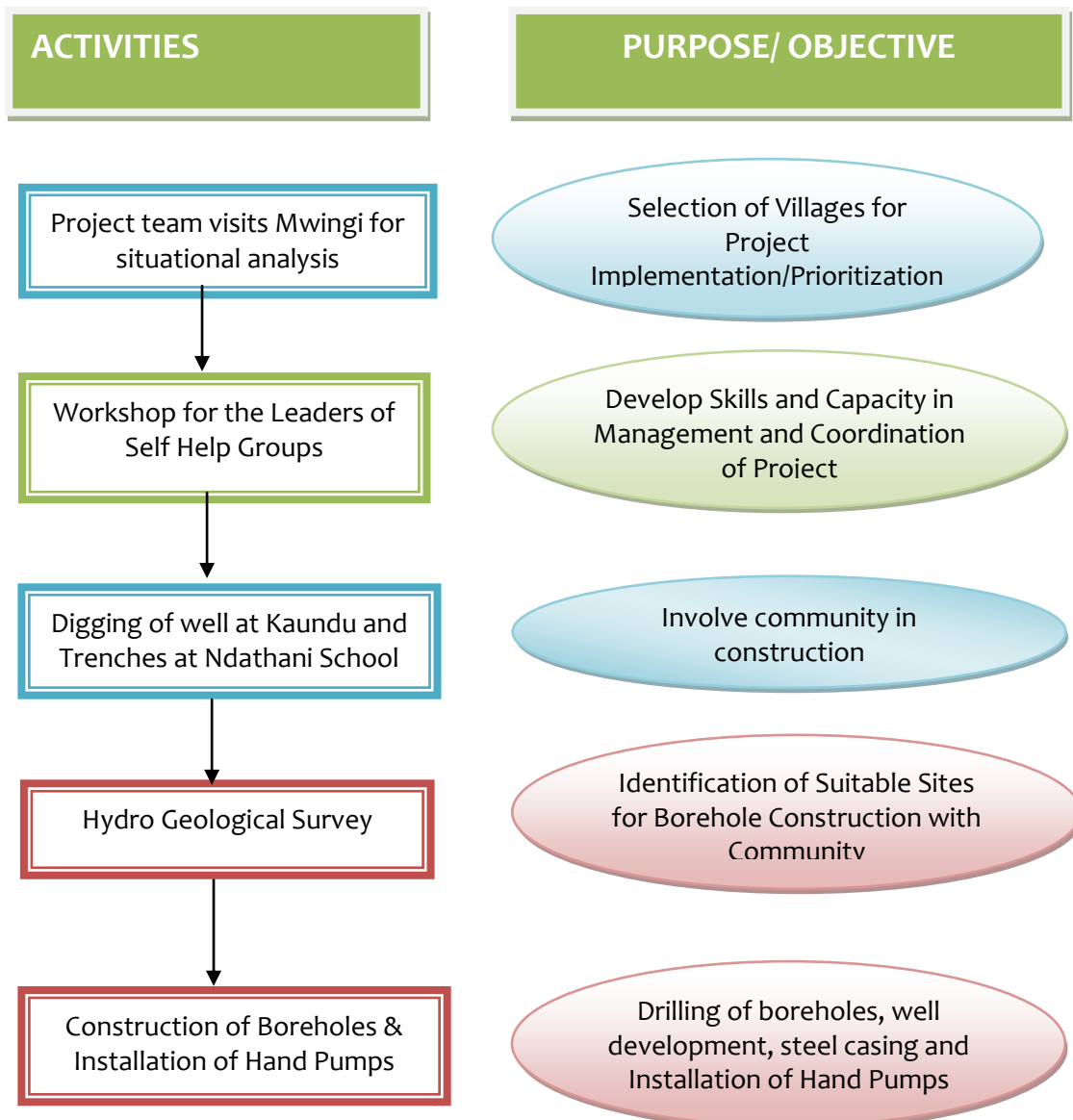


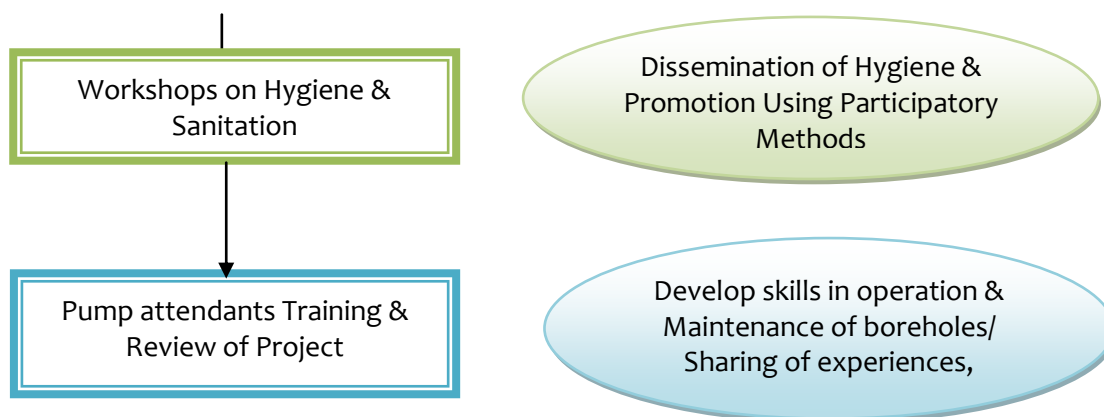
Hygiene & Sanitation Training at Ndiuni



Hygiene & Sanitation Training at Mukonga

4.4 Project Implementation Flow Chart





5.0 CHALLENGES & LESSONS LEARNED

- A total of **5 dry boreholes** were drilled to depths in excess of 150m, leading to extension of time and supervision costs as re-surveys had to be done at alternative sites. This encounter would have had dire financial consequences if this kind of situation had not been anticipated.
- Bad road conditions made it very difficult for the drilling rigs to reach projects sites.
- The contractor that won the drilling tender initially deserted the project due to equipment brake down leading to time loss.

6.0 SUMMARY OF PROJECT STATUS

	VILLAGE	WORKS	SELF HELP GROUP	STATUS	DEPTH (M)
1	Mutanda	Deep borehole	Kaisinga Self Help Group	Completed	83
2	Waita	Deep borehole	Thonoa Orphaneese SHG	Completed	190
3	Nguni	Deep borehole	Wendo wa Sele SHG	Completed	80
4	Mukonga	Deep borehole	Mukimbo SHG	Completed	120
5	Katse	Deep borehole	Kisungi SHG	Completed	160
6	Kaundu Secondary School	Shallow Well & Water Kiosk	Kaundu Secondary School	Completed	10
7	Ikongo	Deep borehole	Ikongo Primary School	Completed	160
8	Ndathani Primary school	Connect School to Community Water Tank	Ndathani Pri School	Completed	
9	Tulanduli	Deep borehole	Tulanduli Primary School	Completed	120
10	Kyandali	Rehabilitation & Water Kiosk	Kyandali Borehole Community water Supply	Completed	80
11	Thua	Deep borehole	Thua Primary School	Completed	101
12	Ndiuni	Deep borehole	Ndiuni Self Help Group	Completed	100
13	Kakuzi	Deep borehole	Mwahuro Ngurunga SHG	Completed	125

7.0 PHOTO STORY

NGUNI (Wendo Wa Sele SHG)



Drilling by Testek Water Services Ltd.



Borehole Undergoing Development



Completed Borehole at Nguni



Completed Borehole at Nguni

MUKONGA (Mukimbo SHG)



Drilling Started by Kisima Drilling EA Ltd



Completed Borehole at Mukonga

KAUNDU School Complex



Community Started by Digging the Well



The Well is completed



The well is sealed & Installed with a Submersible Pump



Water Kiosk Completed



Fabian Nolde of Help donates a generator to the School



Handing Over the project to the School Complex

KYANDALI



Removal of Broken Pipes was attempted by Testek in July '12



Removal of Broken Pipes & Recharge Testing by Kisima Drilling E.A



New Hand Pump Was Installed



New Hand Pump Was Installed

KATSE (Kisungi SHG)



Kisima Drilling Strikes Water at Katse



Completed Borehole at Katse

KATSE (Kisungi SHG)



Completed Borehole at Katse



Completed Borehole at Katse

NDIUNI (Ndiuni SHG)



Drilling by Testek Water Services



Pump Installation & Recharge Testing



Completed Borehole at Ndiuni



Commissioning of the borehole at Ndiuni

IKONGO Primary School



Arrival of the Drilling Rig at Ikongo



Water was found at a depth of 160m



Completed Borehole at Ikongo



Completed Borehole at Ikongo

MUTANDA (Kaising SHG)



24 hrs Recharge Testing of the borehole



Completed borehole at Mutanda

THUA Primary School



Project briefing at Thua School



Students of Thua School Testing the Pump



Completed Borehole at Thua



Completed Borehole at Thua

KAKUZI (Muhoro Ngurunga SHG)



Completed Borehole at Kakuzi



Completed Borehole at Kakuzi

WAITA (Orphaneese SHG)



Project Initiation at Waita



Completed Borehole at Waita

TULANDULI Primary School



Commissioning of the borehole at Tulanduli Primary School

NDATHANI Primary School



Installation of Grundfos CR 5-16 Pump



The Community Dug the Trenches



Laying of 2" PVC Pipes



Laying of 2" PVC Pipes



Pump Testing at Ndathani School



This Tank Was also Rehabilitated