



PETTA

**Borehole extension
Report 2024**



BACKGROUND

Without safe water, waterborne illnesses are prevalent; sanitation and hygiene cannot develop, and otherwise preventable deaths, are unavoidable.

Reliable access to clean water, along with better sanitation and hygiene practices, drastically improves the health and wellbeing of communities.

Africa Water Solutions' overall objective is to reduce diarrheal diseases and improve the wellbeing of the people.

This is achieved through a comprehensive sanitation and hygiene improvement program that is blended with safe water provision technologies. Access to safe water is improved through training in simple water treatment technologies and providing kits, construction of Rain Water Harvesting tanks, drilling and motorizing boreholes.

Petta motorised borehole system is located in Petta Sub-County, Tororo district, about 129 miles from Kampala; the capital city of Uganda. It has a pumping capacity of **36m³** daily and a reservoir capacity of **40m³**. Initially, the system covered a total distance of 6.09kms from the source to the points of distribution in 4

villages and 2 Trading centers. The system's original design had 8 water distribution points: 5 Public standpipes in the communities and 3 yard connections including Mbula Machari Primary School and Mbula Health Centre II. The system served 3,100 people before extension.

The extension works have covered a distance of 4.5 kms in which 6 PSPs have been constructed in 6 villages and a yard connection at Mbula Primary School. 2,525 additional people are served by the 6 new Public Standpipes and 1,267 pupils at Mbula Primary School. This brings the total number to 5,625 people in communities and 2,310 pupils benefitting from the water system.





WHAT WAS DONE UNDER THE EXTENSION WORKS

I. Extension of the distribution network.

The system only had one main distribution line and covered 5 kilometers before extension. 5 new distribution lines have been added. The table below summarises the extensions.

Distribution line	Description	Length
Distribution 2	Milo 1 TC to Komolo	1.18 km
Distribution 3	Reservoir junction to Kanangi C	1.35 km
Distribution 4	Milo 1 to Machari West	0.53 km
Distribution 5	Kisenyi to Mbula East Service line to Mbula Primary school	0.712 km 0.13 km
Distribution 6	Kisenyi to Mbula East	0.62 km
Total length of extension		4.522 km





II. Service points

7 service points have been constructed: 6 being Public Standpipes in the villages of Kathowa south, Kanangi C, Komolo, Machari West, Mbula East and Machari West; and 1 being a private connection at Mbula Primary School.

III. Beneficiaries

This will serve **2,525 people** from the **6 villages** and **1,267 pupils** from Mbula Primary School as shown:

Village	Beneficiaries
Kanangi C	499
Kathowa South	419
Machari West	375
Mbula West	795
Mbula East	437
	2,525