



DIOCESE OF MONZE

DIOCESAN DEVELOPMENT DEPARTMENT



PROGRESS REPORT

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1.0. Introduction

This progress report highlights activities that have since been carried out in Fumbo Parish of Gwembe District where a Lukonde Community borehole was drilled to a depth of 90 meters. The valley area is well known for moving from one extreme to another either by way of experiencing a drought or floods. Inadequate water within village perimeters has been a source of concern for Lukonde Community and this problem will soon be a thing of the past as the process in the provision of safe and clean water is well under way and this is all made possible through the financial support from Fairhandeln. The pumping test revealed that community members will greatly benefit from this water facility having recorded a yield of 1.53 liters per second during the pumping test.

This report will provide information on works that have been done by end of October,2021 and what remains to be done having covered so much ground in terms of drilling and equipping of the water facility.

2.0. Update on planned Activities

2.1. Activities done to date

Key Activity Carried Out	Details of sub activities implemented	status
Supported Lukonde community establish a multipurpose water scheme that is climate resilient to be equipped with a solar driven submersible pump	Facilitated geophysical water sitting.	Completed
	Facilitated drilling of 1 borehole to a depth of 90m.	Successfully Completed
	Facilitated fabrication and installation of a water tank stand.	Completed
	Facilitated pumping test	Completed

2.2. Activities Not Yet Done

Activity	Details	status
Support Lukonde community establish a multipurpose water scheme that is climate resilient equipped with a solar driven submersible pump	Fabrication and installation of solar panel frame	Pending
	Procurement of solar pump , powering unit and other accessories.	Pending
	Procurement of plumbing accessories	Pending
	Facilitate procurement of a 5, 000-liter water tank	Pending

3.0. Challenges during the drilling process

The first 16 meters turned out that it was loose formation, therefore, 8 inch metal casings were put up to 18 meters and this resulted paying an extra amount of ZMW 25,056. Use of metal casings was necessary as the first 16 meters was loose formation and having such casings will enable community members derive maximum benefits for decades.

4.0. Request for disbursement of the final allocation of funds

Having covered so much work in line with what needs to be done for the Lukonde Community solar powered water facility, a quotation for the 1 HP submersible pump (Centrifugal, 10, 000 L daily average) Solar panels, Pump cable, water pipe, Enclosure Box 40 x 30 x 20 and other accessories has been obtained. The project has since spent a sum of ZMW 148,714 for drilling and other activities that have since been implemented. A detailed income and expenditure statement will be presented when the project is completed.

Acknowledging the fact that the first installment of 5, 000 Euros was received from Fairhandeln, we are requesting that the second disbursement of funds amounting to a balance of 3, 753. 80 Euros be made so as to enable Caritas Monze complete the task. The total cost of the project comes to 8, 753. 80 Euros as budgeted.

5.0. Conclusion

It is gratifying to note that the drillers struck water at a depth of between 55 and 69 meters, which translates to the fact that the drilled borehole will most likely be an all year round source of safe and clean drinking water. The solar powered water facility has a 140 mm PVC casing to a depth of 90 meters while 16 meters has metal casings and will be equipped with a 1 HP submersible pump. Based on the advice that was given to Caritas Monze by the technician, installation will be done at a depth of 70 meters.

Caritas Monze is grateful for the support that Fairhandeln has continued to render to the people of the Diocese of Monze. Lukonde Community members are equally grateful for such support as this will improve people's standard of living. Installation of this facility will enable Lukonde Community members to spend less time drawing water while creating time for them to do other economic activities. Having safe and clean water will reduce the distance they used to cover to the nearest water point and will also make people of Lukonde enjoy good health. Having such a water facility, in addition, will allow children in the area go to school instead of spending most of their time drawing water for household use.

Animals will equally have a source of water where they will drink from as opposed to a situation where more than 7 kilometers are covered for farmers to provide adequate water for their animals. Community members will have an opportunity to grow vegetables for both home consumption and for sell. This will lead to community members have nutritious meals and a source of income that will help them buy other essential commodities.

Pictorial Report on Work done



Figure 3 Geophysical Water Sitting



Figure 1 Drilling on the selected site



Figure 4 Borehole Drilling



Figure 2 Digging a foundation for the Water Tank Stand



Figure 6 Erecting the water tank stand



Figure 5 Fabrication of the 5 meter water tank stand



Figure 7 Preparing for laying of pipes



Figure 8 Pumping Test