

JUSTICE AND MERCY COMMUNITY INTEGRATED PROJECT

JAM



**BOREHOLE & BIODIGESTER PROJECT
FOR ST. ELIZABETH SWINDON CLINIC**



1 INTRODUCTION

JAM entered into partnership with Kitchen Table Charity Trust (KTCT) very first time in 2019, Where JAM benefited in the construction of a modern maternity and baby care unit in the rural community of Kasipul, this project led to many successful growth and due to its successful completion the KTCT again considered our funding application for the drilling of Borehole and management of sewage system at St. Elizabeth Swindon clinic through construction of Bio-digester which is a source of organic manure for our food security farming and learning for the rural poor farmers.

Its important to note that both Borehole and Bio-Digester could not be completed at the same time due to cost implication and the additional approval by public health in Kenya. This process has been completed and we are grateful for the patience of the leadership of KTCT.

1.1 Objective of the Project

The projects aim was to:

- Ensure stable supply of water at St Elizabeth Swindon Clinic for improved sanitation.
- Enhance availability of water for the community to use domestically and in their farms to improve food security.

1.2 Rationale of the project (Biodigester)

As a result of growing population biological waste Management is of Big Concern in Relationship with health-related issues, contamination of soil and water sources (water table), more so benefits of organic manure in agribusiness. Hence this construction of biodigester is a milestone in trying to address the waste management and boost our organic farming approach. The second phase of the bio-digester will be to upgrade it to biodigester and Biogas plant to biologically manage waste of waterborne toilets and animal waste i.e Cattle, poultry and pigs with an aim of managing contamination of water table, Recycling Human and animal waste for purposes of organic farming with an aim of making more people healthy, production of gas for cooking in clinic kitchen and heating at the maternity unit i.e Brooder to help cut down on Energy costs for cooking and other various needs, but most importantly to also help preserve Eco system by preserving trees which are being used as firewood.

COMPLETION OF THE WORK

Finally, the last phase of this project was Biodigester of which has been completed and it is constructed in a way that it can be upgraded to bio-gas for the facility which will even take all forms of waste within JAM complex and turn them to gas and heaters for the health facility as explained in the rationale above. Find photos below

Project Sustainability.

To sustain this project, the beneficiaries (Mainly event organizers and water boozers) pay minimum water charges to sustain various costs for maintenance of the project. This has picked up well since the community were fully involved in the identification and implementation of the project. We expect the community to take about 4000l/day and sell to water trucks about 10,000l/day.

Secondly and very key for the project self-sustaining is sourcing for funds to install water plant as JAM borehole gives very quality water which is highly recommended for bottling as most of the families visiting their sick relatives has to bring mineral water from outside where that can be good opportunity for the facility to sell its own water to the clients and their relatives.

2 CHALLENGES

St. Elizabeth Swindon Clinic is now being faced with huge demand of its services to the point that we no longer have room for admission forcing the clinic administration to use out patient unit as children ward, this is as a result of clinic being accredited by national hospital insurance fund this was because of the modern maternity and baby care unit funded by KTCT.

What does being accredited by National Hospital Insurance Fund mean to the clinic is steady income to support medical supply and consumables.

3 SUMMARY AND CONCLUSIONS

The drilling of the 100 meters boreholes was successfully done and the community are benefiting from the project already. Using the solar water pump, water can be pumped into the reservoir for use by the hospital and sales to community this has worked very well. A second face of the project that involved establishment a bio-digester has now been completed and operationalized and which is an exemplary improvement in sanitation within the hospital and improved quality healthcare services for the community.

4 LESSON LEARNT

It has been noted that community mobilization is very essential in implementation of every project and that it does not just involve telling the communities what will be done and how but also informing them on their level of involvement in problem identification and giving them room to make decision on the implementation and the course of action to be taken to address the problem. This is very essential for sustainability. Being flexible to new ideas is key to project great impact JAM management was able to listen to advice with regards to drilling of borehole as oppose to rain harvesting and introduction of Biodigester. Now its not only provision of water to the center but its an income generating project too to help hospital pay its bills

5 FUTURE PROJECTS

5.1 Construction of Children Ward and outpatient unit.

As a result of growth experienced after the government accreditation of St. Elizabeth Swindon Clinic the patients flow has tremendously increase both inpatient and out patient hence complete shortage and pressure on the existing infrastructure for example our Modern maternity unit was designed and planned to be occupied every time by 3 pre-natal and 3 post-natal this has now been squeezed to 4 per room has the number of women seeking delivery service in this clinic has doubled.

Its therefore our humble request that KTCT can help us further next year to put up Twin classroom size to be used as Out Patient unit and Children ward. This will not only help JAM and the clinic to address the pressure on the infrastructure but also open the Clinic to provide effective health care to both rural poor women and children but also attract the insurance companies which will improve the clinic income.

5.2 Water Bottling

Installation of water bottling plant to bottle water to take advantage of expanding market for drinking water consumption by the surrounding community is a key area for expansion of the project. The plant will produce pure drinking water of different classes and sizes as 500ml, and 1L. JAM will form an exclusive, innovative brand that will distinguish our bottled water products from other companies' products and make a name as "the manufacture of a comfortably tasty water." Our water will also be of high-quality and be of reasonable price. The proceeds from this will be directed toward supporting Orphans and vulnerable children school fees, Maintenances of the borehole and water system and promote rural poor farmers through value additions.

6 APPENDIX

6.1 Expenditure Summary

SOURCES OF FUNDS		
SOURCES	AMOUNT IN KSH	
KTCT Grant	843,220.25	
JAM Contribution	467,000.00	
DCM Grant	480,000.00	
Total Amount	1,690,220.25	
EXPENDITURE REPORT		
ITEMS	AMOUNT IN KSH.	BUDGET NOTES
Statutory Costs for drilling	62,500.00	These are the costs of licences used during and after drilling
Drilling Cost	834,174.00	These include drilling cost, installation of cases and other Borehole drilling expenses paid direct to drilling company.
Plumbing Cost	191,200.00	This is incurred in buying water pump and connecting water from the borehole into the tank
Solar	494,000.00	Cost of installing solar to pump water from borehole to tank
Construction and installation of Biodigester	208,346	Cost of digging the system, lumbering, installation of Biodigester and biodigester Bacteria, organic manure collection point
Total Amount	1,790,220.00	

PICTORIAL PRESENTATION OF BIODIGESTER AT ST.ELIZABETH SWINDON CLINIC



From the start of the Biodigester constructions







Final stage of the biodigester closed.

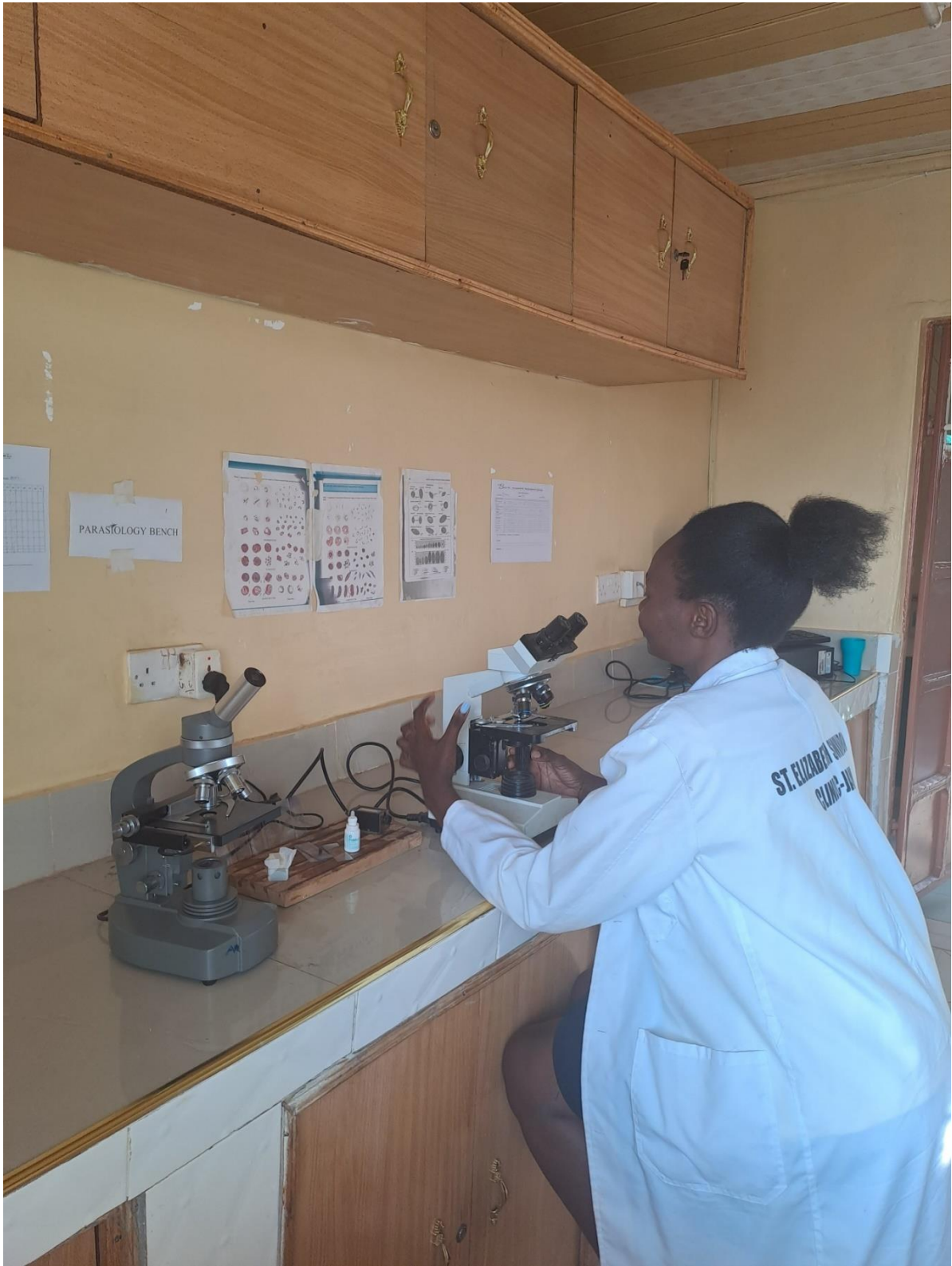
NEW LOOK OF THE CLINIC



The sign post with the NHIF New development as a result of KTCT Support



The main entrance of the Modern Maternity.



St. Elizabeth Laboratory in use



New look of Maternity Unit.

On behalf of JAM Community Integrated Project, we want to sincerely thank Mr. Brian and your Board for entrusting us with your resources to improve the water supply and storage, construction of bio-digester to treat and recycle human waste into organic manure.

A handwritten signature in black ink, appearing to read 'Margret Ojuando'.

Mrs. Margret Ojuando

Board Chairperson,

Justice And Mercy (JAM) Community Integrated Project