

NAKAWA SCHOOL FARM - ZAMBIA

Horticulture Feeding Project

January – July 2020



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Lead Organization: Consultant

The following were the intended goal and objectives for this Project;

Project Goal

The project goal was to contribute towards increased feeding of pupils and which would have led to good daily attendance and also bring reduction in food related diseases.

This project was designed to benefit over 95 vulnerable pupils of Nakawa Pre-school and indirectly 100 parents /school management.

Project Objectives

The project had the following key objectives;

1. To create a strong strategic plan for Nakawa school administration towards challenges in their daily feeding programs of over 95 pupils.
2. To train pupils on simple but practical ways of modern farming at the school garden with advocacy for climate change awareness.
3. Building up capacity in the use of renewable micro irrigation systems (Solar energy).
4. Training of teachers and interested parents on basic Agriculture Practices.

Intended Project Activities to be implemented

The following were the intended / planned activities to be implemented at Nakawa School garden

- Establishment of school garden/farm as pilot project.
- Train pupils, teachers and interested parents on basic agriculture practices.
- Training on the usage and maintenance of proposed irrigation models.
- Setting up of complete solar irrigation models at Nakawa School.
- Training in horticulture production and compost making.
- Training in record keeping, leadership, and business management.
- Training learners in project ownership.
- Support learners in the implementation and maintenance of irrigation models.

Out of the eight planned activities to be implemented; only three activities were implemented due to circumstance beyond our control which was caused by Corona Virus Disease which started in December 2019 and spread to Africa in March 2020.

Progress highlights of activities implemented

The following were the activities managed to be implemented;

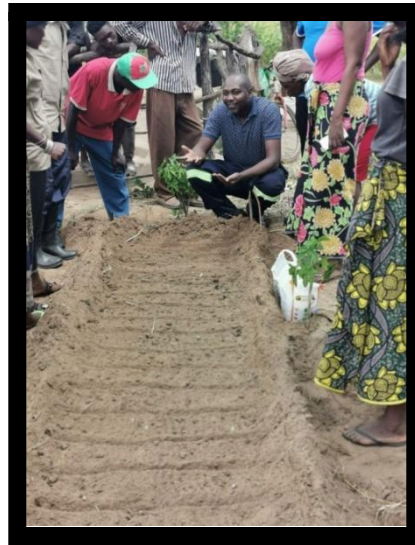
- ☐ Community Mobilization/sensitization
- ☐ The project has managed to set up a complete 50m*50m of a vegetable garden.
- ☐ Setting up a complete solar irrigation system.
- ☐ Trained learners in the maintenance of the irrigation and nursery establishment.

COMMUNITY MOBILIZATUION

- Several meetings were conducted to sensitize the community about the school feeding programme where much emphasis was made that they should contribute in kind(labour) towards achieving the intended goal of feeding 95 pupils and of course imparting knowledge to all parents willingly to participate.

SETTING UP A 50*50m GARDEN

- **Nakawa School Farm** focused on growing varieties of different vegetable production specifically to feed the most vulnerable pupils and also to impart Agricultural knowledge to the communities around the school. The following vegetables were planted in the school garden at different intervals;
- Cabbage
- Green pepper
- Okra
- Onion (not yet transplanted still on the nursery beds)
- Egg plant
- Green maize
- Rape
- Green beans
- Butternuts



SETTING UP A COMPLETE SOLAR IRRIGATION

A complete function irrigation system was installed and was powered by renewable energy (solar) gravitated by a tank stand at the highest of 3.5 meters about the ground with approximation of 350 meters away from the main garden.



CHALLENGE/CONSTRAINT DURING AND RECOMMENDATIONS

- Few people were coming for these meetings due to the hunger situations in their home stead and the COVID19 outbreak.

- Heavy rains during the month of March which delayed certain activities i.e. Land preparation, manure application, Tank stand installation.
- High inflation rate (Dollar exchange to Kwacha) which led to nearly all the inputs to shoot up the prices including pump fuel prices.
- High level of sodium in the water which led to drip pipe blockages.
- Need to find a chemical that can be applied inside the borehole to neutralize the Sodium based from the recommendation from the water analysis.
- Unexpected Human wildlife conflict which led to damaging of 80% of all the planted vegetables in the garden.
- Thieves stealing all the solar panels powering the irrigation system in the month of June 2020.
- If solar panels are to be replaced, they will need to build a house and panels be placed on top of the house roof where one or two people should be living in all year round.
- Once government uplifts restriction on gathering, we shall need about 4-5 months of intensive training with communities to catch up with lost time.

NAKAWA SCHOOL FARM PROJECT
Financial Report - As of 31st July 2020

Activity Description		Budget Amount -ZMW	Actual Spend ZMW	Variance (Actual Vs Budget) ZMW
A	Project Activities			
1	Purchase of Solar Equipments			
1.1	Solar Pump (panels, and electrical works)	62,500.00	63,880.00	(1,380.00)
Sub-total- Objective 1		62,500.00	63,880.00	(1,380.00)
2	Land preparation & Soil Preparation			
2.1	Digging of trenches, Stamping	1,200.00	1,200.00	-
2.2	Manure	3,000.00	6,000.00	(3,000.00)
Sub-total- Objective 1		4,200.00	7,200.00	(3,000.00)
3	Irrigation Equipments & Infrastructure			
3.1	Tanks, Stands, Pipes, Connectors, Drip Kits, Valves, Transportation	61,500.00	71,260.00	(9,760.00)
Sub-total- Objective 2		61,500.00	71,260.00	(9,760.00)
4	Production Costs			
4.1	Sprayers, Seeds, Chemicals & Tools	18,490.00	18,490.00	-
Sub-total- Objective 3		18,490.00	18,490.00	-

5	Program Support			
5.1	Consultancy fee	24,000.00	24,000.00	-
5.2	Contingency	10,000.00		10,000.00
5.3	Capacity building with farmers (trainings + manuals)	4,000.00	4,000.00	-
5.4	Fuel	6,000.00	12,000.00	(6,000.00)
5.5	Tear & wear	3,000.00	3,500.00	(500.00)
Sub-total- Objective 4		47,000.00	43,500.00	3,500.00
TOTAL PROJECT ACTIVITIES COSTS		193,690.00	204,330.00	(10,640.00)