



EAR, KIGEME DIOCESE

B.P 67 NYAMAGABE

**ANGLICAN CHURCH OF RWANDA  
KIGEME DIOCESE,**

**SUSTAINABILTY OF THE MCC  
PROJECT.**

**Prepared by**

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Kigeme, August 2018

## **SUSTAINABILITY OF MCC PROJECT.**

### **PROJECT SUMMARY**

This project will be run under The Food Security Program which is based on the following 3 Pillars:

1. Livestock system
2. Agriculture system
3. Saving and Credit system

Kigeme Diocese has good experience in animal livestock especially cattle. Since 2003, it has strived to help the community with its livestock (cow, small animals distribution and animal health care), agriculture systems. Since 2002, Kigeme Diocese has also experience in saving and credit associations.

In order to help with disease prevention in animals, the Diocese has started the Para-Veterinarian Project. The Para- vets (Vet assistants) help the Vets to ensure there is a reduction in mortality and morbidity among domestic animals and provide veterinary services to farmers. Sixty-four (**64**) Para-vets from different parishes of EAR (Kigeme Diocese), Kigeme in Nyamagabe and Nyaruguru Districts were trained in collaboration with their origin cells and sectors in 2 Pillars (Livestock and Agriculture systems). In the savings and credit system, ninety five (**95**) facilitators are trained in this program and they help people in their 1307 associations. This will help the beneficiaries in Kigeme diocese increase animal production, decrease and prevent animal diseases and implement a savings system. These Para vets can also help the beneficiaries of the Girinka program (one cow per one family program implemented by the Rwandan government) to take care of their cows and other domestic animals they may have.

In this case we strive to involve all Para-vets and facilitators in educating the community about milk hygiene, increasing milk production and developing a savings system.

In Partnership with Nyamagabe District, EAR Kigeme Diocese now owns the “**MILK COLLECTION CENTER**” in the Gasarenda area that will help to boost the sustainability of The Food Security Program. Important skills will be imparted to the people in the domain of intervention of the Kigeme Diocese. To achieve this, the following facilities are needed:

- Continued training of the para veterinarians on the topics of treatment of animal diseases frequent in the area
- To increase the milk production in the area through training of the local farmers on topics such as general animal husbandry and disease prevention in the areas of intervention.

- Improving the knowledge of saving and credit as well as training of the beneficiaries in off-farm income generating activities such as basket making and sewing.

To increase the milk production through these Para-vets, we have four domains of activities:

1. **Domain I:** Running the milk collection center and increasing milk production of the cows contributing their milk to the center.
2. **Domain II:** Training of the farmers about animal health care and disease prevention
3. **Domain III:** Community mobilization and capacity building on saving
4. **Domain IV:** Ensuring a milk market and, in future, adding the production of milk by-products such as cheese and yogurt through the MCC.

In Partnership with EAR, Kigeme Diocese and **THE UDDER PROJECT** in the “**Food Security Program**”; it is possible to help the beneficiaries using the veterinary team and the trained Para-vets by working with the beneficiaries in their community and addressing their main issues of animal disease and animal production.

### **THE PROJECT SUSTAINABILITY**

This project will help the community with the following steps:

1. Improving animal genetics, especially in cattle, through an artificial insemination system that will help to improve the milking genetics of the local cows (by introducing “exotic milking breeds). Farmers who will have genetically superior cows will be able to produce more milk from these cows. As a result, the income of the people will be increased. The role of the MCC is to collect much milk from the community, add value and safety to it by pasteurizing it and then sell it.
2. Training of the farmers about animal health care. This will help them to receive some skill about animal health such as: livestock feeding especially cows, animal treatment (some disease like Mastitis), and disease prevention
3. Reduction of diseases and poor milk production. In this point, the para-vets of the Kigeme Diocese will intervene more than the veterinarians because there is one para-vet in each area, they live in the community and they know the local farmers. The veterinarians will be available to advise and provide continual training to the para-veterinarians.

4. Collecting milk from the community. The MCC is able to collect all the milk from the farmers in the different zones of the milk collection center. The payment to the farmers will be done bimonthly. The MCC is the market of all the farmers in area.
5. Milk transformation. When there is an increased milk yield in the area, we will progress to producing some products like cheese and yogurt. These products from the milk will be something new that can be marketed in the area and beyond.
6. Fighting against malnutrition in families (children, women). By having more pasteurized milk in the area, some diseases from drinking raw (unpasteurized) milk will be decreased or even eliminated.
7. Distribution of safe milk to the population. It is mandatory in all districts to sell and consume safe milk from the MCC. The impact of milk pasteurization is to prevent all diseases transmitted by raw milk.

### **Problem analysis**

The number of cows in Nyamagabe is increasing every year. Some cows are from the one cow per one family program (Girinka Program), some of them are from Kigeme Diocese in different associations operating in this area. All of these animals are giving milk to the family. However, until now, we did not have a way of buying milk from the farmers and the farmers did not get the benefits of receiving money for the milk as well as a way to have safe milk to consume. It is important to find a permanent market for the increased milk from this area as this will help to improve daily family income as well as improve the general health of the population by drinking the safe and available milk.

The farmer beneficiaries of the MCC need not only the help through the Food Security program to obtain knowledge on animal health care that will increase milk production but also the skills about the agricultural system of using the manure from the cows for fertilizing crops and learning about income generating projects through the saving and credit program. The savings and credit will also be helpful as the farmers will be able to buy some drugs and supplements for their cows needed to improve the cows' general health. The MCC currently has 98 farmers who are Food Security beneficiaries from different sites around the center. The goal is to collect all milk from those sites and more, which will call on creating different milk collection posts in each sector.

## SWOT ANALYSIS

<b>STRENGTH:</b>	<b>WEAKNESS:</b>
<ul style="list-style-type: none"> <li>- Experience about animal production</li> <li>- Level of study (2 Doctors of Veterinary Medicine)</li> <li>- 64 Para-veterinarians trained about animal health care, animal production and Milk processing.</li> <li>- 95 facilitates trained in saving and credit</li> <li>- Farmer cooperatives created in the areas of the Kigeme Diocese</li> <li>- 35, 948 cows in 10 Sectors that produce milk</li> <li>- The building and equipment, plus the materials used to collect milk and keep it cool until it is sold.</li> </ul>	<ul style="list-style-type: none"> <li>- The veterinarians, Para-veterinarians and other staff currently have minimal training in cheese and yogurt processing</li> <li>- Absence of a technician trained in food sciences</li> </ul>
<b>OPPORTUNITIES:</b>	<b>THREATS:</b>
<ul style="list-style-type: none"> <li>- Cows distributed by Kigeme Diocese on the region</li> <li>- Girinka Program contributions by different NGOs such us: World Vision, Send Cow, Red cross, FARG and RAB,</li> <li>- Good collaboration with the local Government.</li> </ul>	<ul style="list-style-type: none"> <li>- Other milk being sold in the shops that has not been properly processed and competing with the sale of the MCC's milk.</li> <li>- Farmers not trained about animal feeding and animal husbandry</li> <li>- Absence of water from WASC (Water and Sanitation Corporation) at the MCC site.</li> </ul>

### General Objectives:

The general objective of this project is to offer a market of safe milk to the local farmers, create commerce from the improved animal production generated by the teachings of the veterinary team and to fight against malnutrition. Another objective is to generate enough income through the MCC to support the Food Security Program and ensure its self-sustainability.

### Specific objectives:

- Managing the health and production of the animals
- Creating commerce service from the animal production
- Help the community to generate income from cow farming
- Fight against malnutrition
- To reach full capacity of the MCC (selling at least 270,000 L of milk per year)
- Job creation for the unemployed people

## **Main activities of the project**

- Training of the Para-veterinarians
- Training of the farmer on animal health care and improved production
- Training the farmers about saving and credit activities
- Collecting of milk
- Treatment of milk
- Selling of safe milk
- Marketing of milk to areas within the Kigeme Diocese and beyond

## **MCC MANAGEMENT**

The MCC will be managed and evaluated by the following steps of persons:

### **A. Board of MCC committee:**

1. The President of the board (Diocesan Bishop).
2. The Administrator and Manager of Diocese
3. MCC Accountant in Diocese
4. Employee responsible for Diocesan Development and Planning

### **B. Food Security Staff:**

1. Food Security Coordinator
2. Food Security technicians: An Agronomist, 2 Veterinarians and a Social Worker
3. Dean of the Para-vets

### **C. Field technical point:**

1. Food Security technicians (Agronomist, 2 veterinarians and Social worker)
2. Para-Veterinarians
3. Dean of the Para-vets
4. President of the farmers

## **STRATEGIES AND DIFFERENT ACTIVITIES OF THE PROJECT**

### **• STRATEGIES**

The project will be owned and managed by the Anglican Church, Kigeme Diocese. Two Doctors of Veterinary Medicine will act as coordinators of project activities on daily basis. They are also in charge of different trainings of the farmers and Para-vets. The MCC will have a Special Technician for Milk treatment and packaging, an agent for center security, one cleaner and other needed casual workers.

Kigeme Diocese has trained the Para-vets in the field to work with the farmers with the goal of improving the animal production especially milk production. Animal feeding and animal health care are mentioned in their responsibilities in collaboration of the government vets in different sectors.

In partnership with local government, all milk shop centers will be selling milk from the M CC.

- **ACTIVITIES OF THE PROJECT**

- Buying the material for collection, treatment and selling milk
- Seeking personnel and giving employment
- Training the facilitators
- Training of the Para-vets and Farmers.
- Marketing
- Follow up and evaluation of the MCC activities

### **FOLLOW UP AND EVALUATION**

The manager of the project will do a daily follow up and a weekly evaluation. However, we will also welcome the input of advise/new ideas from our partners and beneficiaries. A monthly report will be given to the owner and the partners (Udder Project) of the project from the MCC.

- **IMPLEMENTATION OF THE PROJECT**

#### **Milk collection techniques**

The raw milk will be collected using the jugs of 40L and carried by bicycles to the milk collection Center. The milk will be tested for quality. The quality milk will be put into the cooling tank.

- **The capacity of milk collection center**

The center will collect 1,200 Liters of raw milk per day.

Per year the center will collect 432,000 Liters of milk.

The milk loss per year will be approximately 10% which is equivalent to 43,200 L. So, it is anticipated that ~ 388,800 Liters of milk will be sold per year.

- Training of the Para-vets about the MCC. This is very important because the Para-vets will help us to train the farmers in the community about animal health care and animal nutrition with the goal of increasing milk yield.
- Training of the facilitators and the farmers about saving and credit

- These para-vets will also be responsible for collecting the milk from the community.

Each site should have a person who follows up the milk collection. The Milk Collection Center requires some repairs to be made and replacement of some materials. It will be necessary also to build the fence aiming to protect the MCC and building or buying other water tanks to ensure enough water at the MCC. Finally, we plan to make other products such as cheese and yogurt, but, not before the MCC shows good success with the milk processing and distribution as well as showing enough profit to support production of milk by-products.

## BUDGET OF THE PROJECT

### SALARIES OF THE PERSONNEL FOR ONE YEAR

No	Title of the worker	Number	Monthly salary (Rwf)	Total Per year (Rwf)	U.S Dollars
1.	Engineer technician in milk processing	1	300,000	3, 600,000	4,234.2
2.	Watchmen	2	40,000	960,000	1,129.4
3.	Cleaner	1	50,000	600,000	705.8
4.	Cashier	1	200,000	2, 400,000	2,823.5
5.	Vets (one being a manager of MCC)	2	400,000	9,600,000	11,294.0
<b>S/TOTAL 1</b>				<b>17,160,000</b>	<b>20,188.2</b>

1 USD = 850 Rwf

### 3. URGENT MATERIALS NEEDED FOR TO FUNCTION WELL

N <sup>o</sup>	MATERIELS	QUANTITY	UNIT PRICE	TOTAL PRICE	Dollars (\$)
1	Pasteurizer (1,000 liters)	1	7,000,000	7,000,000	8,235.2
2	Fridges for 2 sites	2	600,000	1,200,000	1,411.7
3	Water tanks	2	2,500,000	5,000,000	5,882.3
4	Can stainless steel 20 L	5	30,000	150,000	176.4
5	Alcohol gain	1	80,000	80,000	94.1
6	Vehicle	1	ff	30,000,000	35,294.1
7	Building the Fence (remainder activities)	1	ff	1,200,000	1,411.7
<b>S/TOTAL 2</b>				<b>44,630,000</b>	<b>52,505.8</b>
<b>GENERAL TOTAL</b>				<b>61,790,000</b>	<b>72,694.1</b>

We say seventy nine thousand seven hundred and fifty three U.S Dollars (*U.S \$ 72,694.1*)

**OTHER ESSENTIEL MATERIALS NEEDED TO HAVE THE MCC WELL KEPT.**

<b>N<sup>0</sup></b>	<b>MATERIELS</b>	<b>QUANTITY</b>	<b>UNIT PRACE</b>	<b>TOTAL PRICE</b>
<b>(i)</b>	Cooling room (Chambre froide)	1	3,000,000	3,000,000
<b>(ii)</b>	Can stainless steel 40L	5	85,000	425,000
<b>(ii)</b>	Can stainless 50L	5	100,000	500,000
<b>3</b>	Building insurance /year	2	250,000	500,000
<b>4</b>	Bicycle	10 (sites)	80,000	800,000
<b>5</b>	Products to make cheese and yogurt	ff	-	2,000,000
<b>6</b>	Packages of the products	Ff	-	5,000,000
<b>7</b>	Office materials	Ff	-	800,000
<b>8</b>	Electricity and Water/year	Ff	-	2,000,000
<b>9</b>	Training of the farmers and milk collectors	Ff	-	6,450,000
<b>10</b>	Training of the Para-vets and facilitates	Ff	-	6,900,000
<b>11</b>	Milk packaging for long time, emballages			2,000,000
<b>TOTAL</b>				<b>30,375,000</b>

We say thirty million three hundred seventy five thousand Rwanda francs ( **RWF 30,375,000**) equivalent to U.S \$ 35,735.

**TOTAL BUDGET OF THE PROJECT : Frw 92,165,000 equivalent to U.S \$ 108,429.**

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