

DIOCESE CATHOLIQUE DE GIKONGORO



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CONFERENZA
EPISCOPALE
ITALIANA



TERMS OF REFERENCE (TOR) DEMONSTRATION TRAINING ON PREPARATION AND USE OF ORGANIC PESTICIDES

1. Background

Under the ongoing project “*Building Resilient Food Security for Smallholder Farmers through Sustainable Soil Management Practices and Income Generation Opportunities*,” Caritas Gikongoro has successfully conducted Training of Trainers (ToT) on Soil Management, with a strong focus on Integrated Soil Fertility Management (ISFM). Key topics covered included compost making, mineral fertilization, erosion control, and agroforestry. However, the practical component on pest control specifically the preparation and application of organic pesticides, remains insufficiently addressed.

The continued use of chemical pesticides among smallholder farmers has led to serious environmental and agricultural challenges, including the destruction of beneficial insects, particularly pollinators such as bees, which play a critical role in increasing crop yields and supporting biodiversity. Additionally, harmful chemicals negatively affect soil health by reducing populations of beneficial organisms, such as decomposer insects (“*inshuti z’umuhinzi*”), which are essential for producing high-quality organic manure.

In response, this activity aims to strengthen the capacity of trainers and farmers through practical demonstrations on the preparation and use of organic pesticides derived from locally available medicinal plants and materials such as *umuruku*, tobacco leaves (*ibibabi by’itabi*), chili (*urusenda*), garlic (*tungurusumu*), onions (*ibitungu*), and soap (*isabune*). Promoting these eco-friendly alternatives will contribute to biodiversity conservation, improved soil health, enhanced water retention and filtration, and climate change mitigation.

2. Purpose of the activity

To equip trainers and smallholder farmers with practical knowledge and skills in preparing and applying organic pesticides as a sustainable alternative to chemical pesticides.

3. Objectives

3.1 General objective

The general objective of this activity is to promote environmentally friendly pest management practices through the use of locally made organic pesticides.

3.2 Specific objectives

- i. To build practical skills in the preparation of organic pesticides using locally available materials
- ii. To reduce the use of harmful chemical pesticides among beneficiaries
- iii. To promote biodiversity conservation by protecting beneficial insects, especially pollinators
- iv. To improve soil health through environmentally sustainable farming practices
- v. To strengthen trainers' capacity to cascade knowledge to other farmers

4. Training details

Activity: Demonstration on Preparation and Use of Organic Pesticides

Duration: 1 Day

Venue: Rusenyi and Gafuhisha, Mugali, Mbeho and Bigazi demonstration sites

Target Area: Nyamagabe district, Cyanika sector, Nyanzoga cell (Rusenyi, Gafuhisha, Mugali, Mbeho and Bigazi villages).

Participants: 75 Trainers of Trainers (ToTs).

5. Scope of demonstration

The demonstration will emphasize practical, hands-on learning to ensure participants gain applicable skills in organic pest management. It will cover the identification of locally available materials used in the preparation of organic pesticides, followed by step-by-step guidance on how to prepare them effectively. Participants will learn appropriate mixing ratios and correct

application methods to ensure efficiency and safety. The session will also highlight essential safety measures to be observed during both preparation and application processes. In addition, a comparative analysis between organic and chemical pesticides will be provided to enhance understanding of their impacts. Finally, participants will engage in field application and observation to reinforce learning through real-life practice.

6. Training methodology

The activity will adopt a highly practical and participatory approach, emphasizing learning by doing. Participants will actively engage in preparing organic pesticides, group discussions, and field demonstrations. Experience sharing among farmers will be encouraged to enhance local knowledge integration and ownership.

7. Expected outputs

Trainers and farmers will be equipped with practical skills in the preparation and application of organic pesticides using locally available materials, enabling them to adopt safer and more sustainable pest management practices. The activity will also increase awareness of the harmful effects of chemical pesticides on human health, beneficial insects, and the environment. In addition, demonstration plots will be established to serve as practical learning sites for continuous application, observation, and replication of organic pest control methods. Furthermore, the capacity of Trainers of Trainers (ToTs) will be strengthened, enabling them to effectively transfer knowledge and skills to other community members and promote wider adoption of organic farming practices.

8. Expected outcomes

The training is expected to lead to increased adoption of organic pest control methods among beneficiaries, resulting in reduced use of chemical pesticides and improved protection of beneficial insects. It will also contribute to improved soil fertility, enhanced biodiversity, and more sustainable agricultural practices.

9. Expected impact

In the long term, this intervention will contribute to environmentally sustainable agriculture by promoting biodiversity conservation, improving soil structure and organic matter content, and

enhancing water retention and filtration. It will also support climate change mitigation efforts while improving agricultural productivity and livelihoods through safer and more resilient farming systems.

10. Roles and responsibilities

Project Team

- Organize logistics and materials
- Facilitate training and demonstrations
- Monitor participation and document outcomes

Participants (ToTs and Farmers)

- Actively participate in demonstrations
- Apply learned practices in their farms
- Knowledge transfer to other community members (replication)

11. Monitoring and evaluation

Monitoring will include attendance tracking, observation of participant engagement during practical sessions, and follow-up visits to assess adoption of organic pesticide practices. Feedback from participants will also be collected to improve future interventions.

12. Budget

No	SECTOR	CELL	Nbr OF Participants	Refreshments AND RELATED COST (RWF)			
				ITEM	UNIT	UNIT COST (Rwf)	TOTAL COST (Rwf)
1	CYANIKA	NYANZOGA	75	Materials with taxes 15%	ff	195,000	195,000
2				Transport	60	3,000	180,000
GRAND TOTAL FOR Cyanika SECTOR (5 VILLAGES)							375,000

Prepared by:

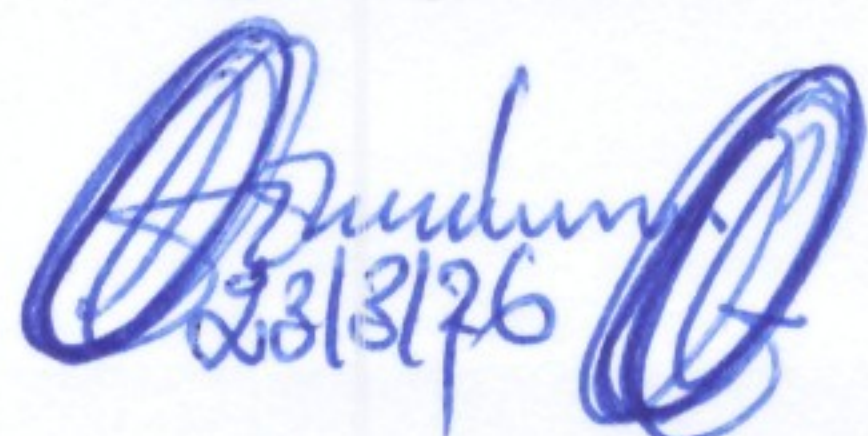
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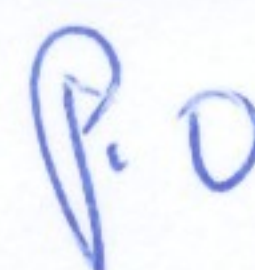
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