

**APPLICATION FOR TECHNOLOGY NEEDS ASSESSMENT**

Name of Community: Mayha, Odiongan, Romblon		
Contact Person: Hon. Ricmel S. Falqueza	Position in the Enterprise: President	
Office Address: Brgy. Mayha, Odiongan, Romblon	Tel. No. 09278637249	Fax No.
	E-mail Address:	
Factory Address: Brgy. Mayha, Odiongan, Romblon	Tel. No. 09278637249	Fax No.
	E-mail Address:	
Website:		

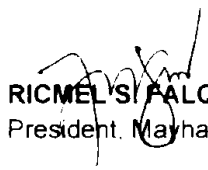
**GENERAL AGREEMENTS:**

1. The applicant shall, at the earliest opportunity, make available to the DOST Regional Office No. 4B (DOST-MIMAROPA) all information (manuals, procedures, etc.) required to establish the technology status of the selected core business functions and management systems;
2. If DOST-MIMAROPA is not satisfied that all the requirements for business registration are complied with, it shall inform the applicant of the observed deficiencies before starting the assessment;
3. When the required inputs to the assessment are already supplied by the applicant, including Attachment A, the DOST-MIMAROPA will assess the firm through the core business functions and management systems, whichever is applicable, to identify technology needs and verify compliance to standards vis-à-vis existing practices;
4. When the DOST-MIMAROPA has completed the technology assessment, a report will be prepared on the results of the assessment with accompanying recommendations and opportunities for improvement. The report prepared will define the scope of activities, functions, management practices and locations assessed. The applicant shall not claim or otherwise imply that the report applies to other locations, product or activities not covered by the report;

5. The applicant agrees that the report will not be used until permission has been granted by the DOST-MIMAROPA;
6. The applicant agrees that the receipt or acknowledgment of the report ends the assessment stage; any technical assistance ensuing from the recommendations of the report will be viewed as a separate project.

#### **UNDERTAKING**

**I agree to undertake and observe the above General Agreements as stipulated by the Department of Science and Technology Regional Office No. 4B.**

  
**RICMEL S. PALQUEZA**  
President, Mayha 4-H Club

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**Signature over Printed Name**

**President, Mayha 4H Club**

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**Position in the Enterprise**

**May 26, 2023**

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**Date**

### Enterprise Profile

Name of Enterprise 4H Club

Production Site/Location Brgy. Mayha, Odiongan, Romblon

Business Permit No. N/A Year Registered N/A

Brief Enterprise Background \_\_\_\_\_

The municipality of Odiongan is one of the main sources of economically important crops in Romblon. Its 25 barangays have their own agricultural products that are abundant in their areas. Rice for example is abundant in Brgy. Anahao while root crops are richly grown in Brgy. Amatong and Brgy. Panique. For high value crops on the other hand the barangays of Mayha and Progreso Este are the leading producer of the municipality. This is due to the abundant water sources of the barangays. However, most of the farmers in the municipality remain to implement traditional farming methods especially in their irrigation system. Most of them use handheld sprinklers and water hose to irrigate their crops. This method entails numerous disadvantages such as it is labor-intensive and time-consuming especially in large farming lands or during dry spells when plants require frequent watering. It lacks precision that could result in overwatering, water waste, uneven water distribution, inefficiency for deep root irrigation, high pressure damage on soil and delicate foliage, and increased risk of disease spread and fungal growth. These disadvantages adversely affect plant health and the overall productivity of the farm.

In 2007, a youth organization known as the 4H Club established a highly organized and productive farm in Mayha, consisting of 15 dedicated young farmers. The organization manages 2.3 hectares of agricultural land, which they effectively utilize for cultivating a diverse range of HVCs such as cucumbers, eggplants, string beans, bitter melon, squash, bell peppers, chili peppers, okra, and tomatoes. However, the organization still uses traditional irrigation methods involving manual watering of plants using water from a deep well and the river beside the area. Watering the entire 8000sqm. agricultural land is daily administered by five (5) people from 7 am to 10 am. This entails much time and effort that could rather be spent on expanding farming areas, monitoring plant health, and marketing products. Absence of an automated irrigation system also results to high labor costs on water plants. This further leads to a lower rate on return of investment (ROI). Despite the organization's success in providing HVCs to Odiongan and some neighboring municipalities such as San Andres, San Agustin, and Santa Fe, these municipalities still resort to importation of HVCs due to lack of supply. Some of the gaps that hinder farmers to meet local demand for HVCs are lack of efficient irrigation management that leads to low productivity of farms, and poor agricultural practices of farmers resulting to low quality crops. Moreover, most graduates of agricultural courses opt to work in the office rather than in the field due to lack of capitalization support and problems in the trade system of agricultural products.

Year enterprise was established: 2009 Initial Capitalization: PhP200,000.00

Type of Organization: ☐ Single proprietorship  
☒ Association  
☐ Partnership  
☐ Corporation  
☐ Profit

☐ Non-profit

☐ LGU/bLGU

Enterprise Registration No. N/A Year Registered N/A

Classification according to capital (PhP) Present capitalization N/A

☒ Micro (less than 1.5 M)

☐ Small (1.5 – 15 M)

☐ Medium (15 – 100 M)

Classification according to employment (number of employees)

☐ Micro (1 – 9)

☒ Small (10 – 99)

☐ Medium (100 – 199)

Number of Employees:

Direct Workers M:\_\_\_ F:\_\_\_

Production M:\_\_\_ F:\_\_\_

Non-production M:\_\_\_ F:\_\_\_

Indirect/Contract Workers M:\_\_\_ F:\_\_\_

Total M:\_\_\_ F:\_\_\_

Business Activity:

☐ Food processing (please specify commodity)

\_\_\_\_\_

☐ Furniture (please specify commodity)

\_\_\_\_\_

☐ Gifts, decors, handicrafts (please specify commodity)

\_\_\_\_\_

\_\_\_\_\_

☐ Metals and engineering (please specify commodity)

\_\_\_\_\_

☒ Agriculture/Marine/Aquaculture (please specify commodity)

Smart Irrigation

☐ Health products and pharmaceuticals (please specify commodity)

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☐ Information and Communications Technology (ICT) products  
(please specify commodity)

\_\_\_\_\_

\_\_\_\_\_

☐ Others, please specify

\_\_\_\_\_

1. Specific product or service the enterprise offers its customers:

The association offers High Value Crops (HVC) such as cucumbers, eggplants, string beans, bitter gourd, squash, bell peppers, chili peppers, okra, and tomatoes.

2. Reasons why assistance is being sought:

Some of the gaps that hinder farmers to meet local demand for HVCs are lack of efficient irrigation management that leads to low productivity of farms, and poor agricultural practices of farmers resulting to low quality crops. The association signifies its interest in the GIA program to improve the crop productivity and more precise agricultural practices through Smart and Sustainable Irrigation System.

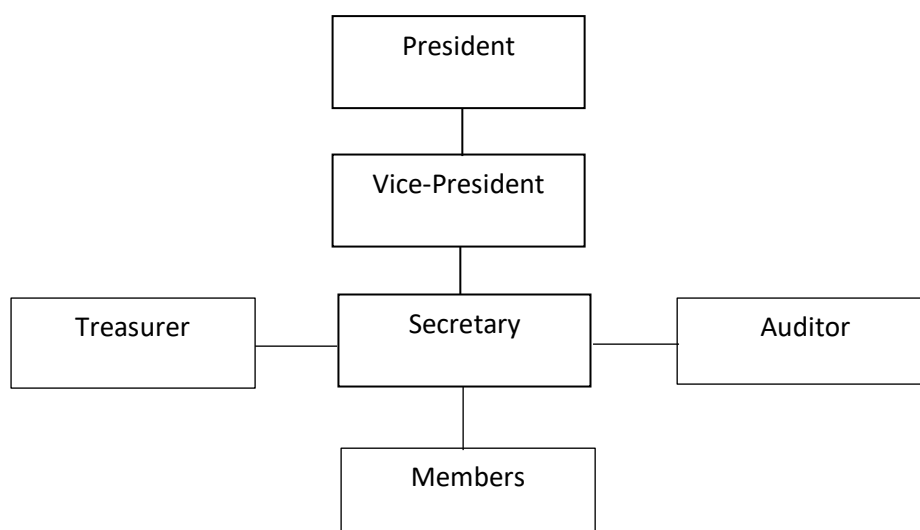
3. Have you consulted any other individual/organization for any assistance?

☒ If Yes, which company/ agency? Please specify the type of assistance sought

Yes, the association have consulted various experts from different government and non-government stakeholders for High Value Crops.

☐ If No, why not?

#### Organizational Structure



#### Managerial/Manpower

	Capability
President	The president is the guide of the association. He leads the organization in organizing, conceptualizing the projects of the firm.
Officers/Members	Assists the president in the implementation of the projects and acts as the workforce of the association.

4. Enterprise's plan for the next 5 years?

The association's president aims to improve the income and productivity of the organization and to contribute economic growth of the municipality and the province as a whole.

Next 10 years?

The association envisions a broader market scheme for their High Value Crops, profitable for 4H club and able to cater the costumer's demand.

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5. Current agreements and alliances undertaken

The association is currently allied with its patrons and private clients around the island.

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## BENCHMARK INFORMATION

### ■ Production and Supply Chain

#### ➤ Raw Material

Raw Material	Source	Unit Cost (₱)	Volume Used/Year
N/A			

#### ➤ Production

Product	Volume of Production/Year	Unit Cost of Production (₱)	Annual Cost of Production (₱)
N/A			
TOTAL			

#### ➤ Production Equipment

Type of Equipment	Specifications	Capacity
N/A		

#### ➤ Problems and Concerns

Some of the gaps that hinder farmers to meet local demand for HVCs are lack of efficient irrigation management that leads to low productivity of farms, and poor agricultural practices of farmers resulting to low quality crops. Additionally, absence of an automated irrigation system also results in high labor costs on water plants. This further leads to lower rate on return of investment (ROI).

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#### ➤ Production Waste Management System

N/A

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#### ➤ Production Plan

The project will focus on deploying smart irrigation systems and sustainable practices to enhance high-value crop production. The plan prioritizes hands-on training for farmers on technology use and sustainable techniques. Monthly monitoring of output will be

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conducted to ensure the optimum utilization of technology assistance. Project monitoring will also be carried out by DOST Romblon with the assistance of the 4H Club through data gathering. Community engagement and knowledge-sharing initiatives make the Model Farm a beacon for modern, environmentally conscious agriculture.

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➤ Inventory System

N/A

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➤ Maintenance Program

Training on proper operation and maintenance of the system will be provided to the assigned operators of the association. This is to ensure that the service life of the technology would be maximized. Members of the association will operate the equipment by schedule in order to give equal chances to every member who would use the technology which would also serve as a common service for each association.

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➤ cGMP/HACCP Activities

Capability enhancement training for cGMP and HACCP will be conducted to the 4H Club association. These activities will ensure the production processes meet the highest standards for quality, safety and sustainability of high value crop production.

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➤ Supplies/Purchasing System

The 4H Club in Mayha, Odiongan will receive automated drip irrigation system with green house facility for High Value Crop (HVC) production.

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▪ **Marketing**

➤ Marketing Plan

The association will promote their commodity through oral publicity and with the use of social media. They will also continue to actively participate in trade fairs. Showcasing the Model Farm as a hub for innovative, sustainable agriculture, the strategy aims to attract local farmers and stakeholders, fostering awareness and support for the transformative initiative.

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➤ Market Outlets and Number

N/A

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➤ Promotional Strategies

The association promotes their commodity through word of mouth.

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➤ Market Competitors

Competition is not an issue because, once the Model Farm for Smart and Sustainable Irrigation is established, it will be the first pilot demo farm on the entire island of Tablas in the Province of Romblon.

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➤ Packaging

○ Nutrition Evaluation	N/A
○ Bar Code	N/A
○ Product Label	N/A
○ Expiry Date	N/A

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▪ Finance

➤ Cash Flow or other related documents

N/A

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➤ Source(s) of capital/credit

N/A

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➤ Accounting System

N/A

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▪ Human Resources

➤ Hiring and Criteria

N/A

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➤ Incentives to Employees

N/A

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➤ Training and Development

The project will be implemented by DOST-MIMAROPA through its Romblon Provincial Office in close partnership with Mayha 4H Club. Project monitoring would also be done by assigned staff from the office to ensure optimum utilization of the technology assistance.

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➤ Safety Measures Practiced

Safety measures will be practiced during the production. The technology will be housed to the designated facility of 4H Club. Health and safety kits in case of emergency will be also prepared.

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➤ Other Employee Welfare

N/A

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▪ Other Concerns

The association could utilize the GIA assistance to improve the farm's productivity and increase crop yield. GIA assistance is highly recommended.

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Prepared by:

Validated by:

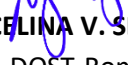
  
**RICMEL S. FALQUEZA**  
President, Mayha 4-H Club

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Printed Name and Signature of  
Owner/Chair/Representative

May 26, 2023  
Date

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**MARCELINA V. SERVAÑEZ**  
PSTD, DOST-Romblon

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Printed Name and Signature of  
PSTD/Cluster Manager

May 26, 2023  
Date

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