### APPLICATION FOR TECHNOLOGY NEEDS ASSESSMENT

Contact Person:	Position in the Enterp	orise:
Mr. Redentor M. Altobano	Municipal Agriculturi	st
Office Address:	Tel. No.	Fax No.
Poblacion, Magdiwang, Romblon	09987216271	
	E-mail Address:	
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	E-mail Address:	

### **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.

MR. REDENTOR M. ALTOBANO

Signature over Printed Name

Municipal Agriculturist

Position in the Enterprise

January 24, 2023

Date

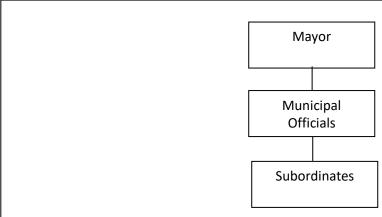
# Attachment A

### **Enterprise Profile**

Enterpris	se Profile	
Name of Enterprise LGU-Magdiwang		
Production Site/Location Poblacion, Magdiwan		
Business Permit No. N/A	Year Registered N/A	
Brief Enterprise Background	. 6 1	
be present in the rice grain when it is harvested. discoloration, promote the growth of molds, and ragerminate may also be affected that's why it is in moisture content of 14% or less to prevent quality is a traditional drying method for reducing the moithe sun. It is the most common drying method becamblon, it is also the common method of drying personal drying are general season. It was also estimated that there is a total of common problem incurred with pavement or sun detorice farmers associations of the municipality of Notice farmers associations of the municipality of Notice fast, safe, and clean solar dryers on any great hold up to 150 kg of produce and its drying rate provide that it is 2-3 time faster than the usual method an annual yield of 939.26 metric tons of rice Magdiwang would increase their rice percentage drying method. During rainy season, the Portasol	High moisture levels during storage can cause graines the risk of pest attack. The rate at which rice seed inportant to dry rice paddy as soon as possible into redeterioration (Rice Knowledge Bank, IRRI). Sun drying isture content of paddy by spreading the grains under cause it is low cost compared to mechanical drying. It is to both rice dryers and motorists. Problems of ally encountered with sun drying especially during raine for 10% loss during pavement or sun drying. To solve the drying, Portasol technology is proposed to be deployed and did and are an area trays that can be laid down on an open field of a protection from pests and fungus. Developed by Michael this perennial problem of harvest losses and without, away from roads and highways. The technologies as per a study conducted on a different set of grain shod. Magdiwang, Romblon, on the other hand, is a 5th percent of the total land area, set aside for agriculturately's rice land is 561 hectares in total. There are nine (9 municipality with a total land area of 243.39 hectares in percent of the total land area of 243.39 hectares in percent of the total land area of 243.39 hectares in recovery and head rice yield compared to traditional could utilize induced heat from charcoal or rice huboness of grains thus, prevents harvest losses, promoted	inds and gering of yeard dorr. III yes in all
Year enterprise was established: N/A	Initial Capitalization: N/A	
Type of Organization:  Single proprietorshi  Association  Partnership  Corporation  Profit  Non-profit  LGU/bLGU	ip	
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)		_
Wiedidiii (15 = 100 Wi)		

Micro (1 – 9)   Small (10 – 99)   Medium (100 – 199)		imber of em	ployees)		
Number of Employees: Direct Workers Production Non-production Indirect/Contract Workers Total Business Activity:	M: M: M: M: M:	F: F: F: F: F:			
Food processing (please Furniture (please specify Gifts, decors, handicrafts Metals and engineering ( Agriculture/Marine/Aqua Health products and pha Information and Commu (please specify commodi Others, please specify	commodit s (please spe (please spe aculture (pl rmaceutica nications T	y) ecify commodify commodiesse specify als (please sp	dity) v commod vecify com	modity)	Post-harvest Technology
<ol> <li>Specific product or service t         The Local Government of Mag         projects in the municipality of         </li> <li>Reasons why assistance is b         The LGU signifies its interest in</li> </ol>	diwang is t Magdiwang eing sough	t:	implemen	ter of laws, rules	
Solar Dyer (PORTASOL) techno  3. Have you consulted any othe	logy for dry	ving of palay	on for any	assistance?	
Yes, together with government and n livelihood, environ	the DOST, on-governr	the LGU hav	ve consult	ed various experi	ts from different
If No, why not?					

### Organizational Structure



## Managerial/Manpower

	Capability
Mayor	Acts as the head of the municipality. Assure that all the projects proposed are beneficial to the whole community. Commands designated personnel to specific assignments.
Municipal Officials	Helps the mayor implement ordinances and projects for the municipality. Suggest plans and ideas for the progress of the island municipality.
Subordinates	Ensure that the programs, projects, and activities are properly implemented and sustained. Also, becomes the end-users and beneficiaries themselves.

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

The local government is determined to increase the rice productivity of rice farmers in which its constituents will benefit from efficient and sustainable farm operations.

### Next 10 years?

The mayor envisions the rice industry to be competitive to importation of rice, profitable for farmers, resilient to disasters and climate risks, and able to cater to the consumer demands for safe and healthy rice.

### 5. Current agreements and alliances undertaken

The local government is currently allied with all the national government agencies and non-government agencies for planning and implementing its programs, projects, and activities

### **BENCHMARK INFORMATION**

# Production and Supply Chain

### Raw Material

Raw Material	Source	Unit Cost ( <del>P</del> )	Volume Used/Year		
N/A					

### Production

Product	Volume of Production/Year	Unit Cost of Production ( <del>P</del> )	Annual Cost of Production ( <del>P</del> )	
N/A				
		TOTAL		

### Production Equipment

Type of Equipment	Specifications	Capacity		
N/A				

#### Problems and Concerns

Sun drying is a traditional drying method for reducing the moisture content of paddy by spreading the grains under the sun. It is the most common drying method because it is low cost compared to mechanical drying. In Romblon, it is also the common method of drying paddy. The grains were laid on pavements or along the shoulder of the road which is both hazardous to both rice dryers and motorists. Problems of contamination and intermittent drying are generally encountered with sun drying especially during rainy season. It was also estimated that there is a total of 10% loss during pavement or sun drying.

# Production Waste Management System N/A

### Production Plan

The project will focus on the use of PORTASOL technology for rice farmers. Production of rice is expected to improve with the use of this technology as rice farmers still use the traditional and labor-intensive sun drying method. Project monitoring would also be done by DOST-Romblon with the assistance of the LGU-Magdiwang through data gathering. Monthly monitoring of output will be accomplished to ensure optimum utilization of the technology assistance.

# Inventory System

N/A

### Maintenance Program

Training on the operation and maintenance of PORTASOL technology will also be given. The LGU-Magdiwang through its Municipal Agriculture Office (MAO) will facilitate and coordinate with their rice farmer associations and ensure to have a facility dedicated for the storage of the PORTASOL technology. Members of the association will operate the equipment by schedule in order to give equal chances to every member who would use the solar dryer which would also serve as a common service facility for each association.

### cGMP/HACCP Activities

Capability enhancement trainings for cGMP and HACCP will be conducted to the rice farmers.

	>	Supplies/Purchasing System The nine (9) rice farmer asso PORTASOL technology.	ociations in Magdiwang,			10	units	of
•	Ma	arketing						
	>	Marketing Plan N/A						
	>	Market Outlets and Number						
	>	Promotional Strategies N/A						
	>	Market Competitors						
	>	Packaging						
		<ul> <li>Nutrition Evaluation</li> </ul>	N/A					
		o Bar Code	N/A					
		o Product Label	N/A					
		<ul><li>Expiry Date</li></ul>	N/A					
•	Fir	nance						
	>	Cash Flow or other related documents N/A						
	>	Source(s) of capital/credit N/A						
	>	Accounting System N/A						
•	Hu	ıman Resources						
	>	Hiring and Criteria N/A						
	>	Incentives to Employees N/A						
	>							

through data gathering. Monthly monitoring of output will be accomplished to ensure optimum utilization of the technology assistance.

Safety Measures Practiced

Safety measures will be practiced during the production. The unit will be housed to the designated facility of Magdiwang RFAs. Health and safety kits in case of emergency will be also prepared.

Other Employee Welfare N/A

Other Concerns

The local government unit could utilize the GIA assistance to improve farmer's productivity in terms of drying crops. GIA assistance is highly recommended.

Prepared by:

MR REDBNTOR M ALTOBANO
Printed Name and Signature of Owner Obair/Representative

MARCEUNA V. SERVAÑEZ
Printed Name and Signature of PSTD/ Quster Manager

January 24, 2023
Date

Date