

**APPLICATION FOR TECHNOLOGY NEEDS ASSESSMENT**

Name of Enterprise: LGU-Banton Solid Waste Management Office (SWMO)		
Contact Person: Patrick Fedilus	Position in the Enterprise: Solid Waste Management Officer	
Office Address: Brgy. Poblacion, Banton, Romblon	Tel. No.	Fax No.
	E-mail Address:	
Factory Address:	Tel. No.	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.**



**PATRICK FED ILUS**

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**Signature over Printed Name**

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**Solid Waste Management Officer**

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**Position in the Enterprise**

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**May 24, 2021**

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**Date**

**Enterprise Profile**Name of Enterprise LGU-Banton Solid Waste Management Office (SWMO)Production Site/Location Poblacion, Banton, RomblonBusiness Permit No. N/AYear Registered N/A

## Brief Enterprise Background

Banton island remains to be a fifth-class municipality despite its vigorous implementation of infrastructure and developmental projects. One of its pressing challenges is the increasing solid waste and the lack of appropriate technologies for solid waste management. In the past, the municipality disposes its solid wastes in an open dumpsite. However, in February 2021 the DENR-EMB ordered the official closure of the dumpsite because of its incompliance to environmental standards. The municipality since then resorted to dumping its residual wastes in a Residuals Containment Area (RCA) and its recyclable wastes in the municipality's central Material Recovery Facility (MRF). With the island's solid waste generation rate of 3T/month on the average, the RCA and the MRF is now fully packed.

Year enterprise was established: N/AInitial Capitalization: N/AType of Organization: ☐ Single proprietorship☐ Cooperative☐ Partnership☐ Corporation☐ Profit☐ Non-profit☒ LGUEnterprise Registration No. N/AYear 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:

<input type="checkbox"/>	Food processing(please specify commodity)	_____
<input type="checkbox"/>	Furniture (please specify commodity)	_____
<input type="checkbox"/>	Gifts, decors, handicrafts (please specify commodity)	_____
<input type="checkbox"/>	Metals and engineering(please specify commodity)	_____
<input type="checkbox"/>	Agriculture/Marine/Aquaculture(please specify commodity)	_____
<input type="checkbox"/>	Health products and pharmaceuticals (please specify commodity)	_____
<input type="checkbox"/>	Information and Communications Technology (ICT) products (please specify commodity)	_____
<input type="checkbox"/>	/ Others, please specify (Agriculture)	Plastic shredder and glass pulverizer for waste management

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

public service as a local government unit

2. Reasons why assistance is being sought:

One of its pressing challenges is the increasing solid waste and the lack of appropriate technologies for solid waste management. In the past, the municipality disposes its solid wastes in an open dumpsite. However, in February 2021 the DENR-EMB ordered the official closure of the dumpsite because of its incompliance to environmental standards. The municipality since then resorted to dumping its residual wastes in a Residuals Containment Area (RCA) and its recyclable wastes in the municipality's central Material Recovery Facility (MRF). With the island's solid waste generation rate of 3T/month on the average, the RCA and the MRF is now fully packed.

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

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

☐ / If No, why not?

The LGU has former projects with the DOST under its CEST program, and this is only its continuation.

## Organizational Structure



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

Please refer to the 10-year solid waste management plan of LGU

### Next 10 years?

Please refer to the 10-year solid waste management plan of LGU

### 5. Current agreements and alliances undertaken

Partnership with the existing junk shops would also be forged to maximize the production of cement bricks, and the plastic shreds and glass powder. Below is the sample plastic and glass shredder/crusher proposed in this project.

## BENCHMARK INFORMATION

### ■ Production and Supply Chain (production/operation will start upon approval of the project)

#### ➤ 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		

➤ Production Problems and Concerns

The group's major concern is the absence of appropriate equipment for waste processing. This hampers them to embark on production.

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➤ Production Waste Management System

N/A

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➤ Production Plan

N/A

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➤ Plant Lay-Out

N/A

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➤ Process Flow

N/A

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➤ Inventory System

N/A

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➤ Maintenance Program

N/A

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➤ cGMP/HACCP Activities

N/A

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➤ Supplies/Purchasing System

N/A

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▪ **Marketing**

➤ Marketing Plan

Appropriate proportions of cement, plastic shreds, and glass powder would be explored through conduct of testing for strength and durability of the prototype cement bricks. Once the proportion is finalized and standardized, production of cement bricks will follow. Though the operating costs would be shouldered by the LGU, additional income generation could be explored through selling the cement bricks or the plastic shreds and glass powder to local buyers or to the junk shops and traders who sell raw materials to manufacturers in Manila. To maximize production, the LGU also plans to regularly donate cement bricks to schools in the municipality for their landscaping projects. Moreover, the LGU's 10-year solid-waste management plan (2020-2030) includes a yearly Barangay Solid Waste Management Contest. This contest would require participants to use the cement bricks for any innovative projects that would improve the aesthetics and functionality of the island. As a result, it would help in maximizing the production of cement bricks with the plastic and glass additives.

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➤ Market Outlets and Number

N/A

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➤ Promotional Strategies

The LGU would use word-of-mouth as major promotional strategy. Social media platforms would also be explored though.

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➤ Market Competitors

N/A

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➤ Packaging

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

▪ **Finance**

- Cash Flow or other related documents

N/A

- Source(s) of capital/credit

N/A

- Accounting System

N/A

▪ **Human Resources**

- Hiring and Criteria

N/A

- Incentives to Employees

N/A

- Training and Development

N/A

- Safety Measures Practiced

N/A

- Other Employee Welfare

N/A



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▪ **Other Concerns**

The group could utilize the GIA assistance especially interventions under CEST Program. It is highly recommended to improve on its solid waste management and its productivity as an LGU.

Prepared by:



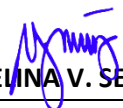
**PATRICK FEDILUS**

Printed Name and Signature of  
Owner/Chair/Representative

May 24, 2021

Date

Validated by:



**MARCELINA V. SERVAÑEZ**

Printed Name and Signature of  
PSTD/Cluster Manager

May 24, 2021

Date