

## PROJECT PROPOSAL 2022 DOST-GIA FUNDING

### I. PROJECT PROFILE

<b>(1) Project Title:</b> Common Service Facility for Corn and Cassava Processing of Pinamihagan IP Community				
<b>(2) Project Leader/Sex:</b> Hon. Teodoro Zacarias/Male <b>Agency:</b> bLGU- Pinamihagan <b>Address/Telephone/Fax/Email:</b> 09460971472				
<b>(3) Cooperating Agency/ies:</b> bLGU-Pinamihagan				
<b>(4) Site/s of Implementation</b> <b>Base Station:</b> Brgy. Pinamihagan, San Jose, Romblon, Region-IVB <b>Other Implementation Site (s):</b> None				
<b>(5) Project Duration:</b> 1 year for project implementation 2 years for monitoring of outcomes				
<b>(6) Total Project Cost:</b> (indicate Counterpart Funds; use Form A for the Line-Item Budget)				
Source of Fund / Site(s) of Implementation	PS	MOOE	EO	Total
A. GIA		PhP312,588.00	PhP275,000.00	PhP587,588.00
B. bLGU-Pinamihagan		PhP328,320.00	PhP300,000.00	PhP628,320.00
<b>TOTAL</b>		<b>PhP640,908.00</b>	<b>PhP575,000.00</b>	<b>PhP1,215,908.00</b>

### II. PROJECT SUMMARY

**(7) Rationale** (Not to exceed one page)

San Jose, Romblon is an island municipality in Romblon. Despite the surge in its tourism sector, a significant portion of its population made up of Ati natives and migrants from Panay remain marginalized. These tribal communities are disconnected from the mainland with mountainous terrain making it more difficult for them to access necessary resources like food stocks, water, power, and even education. Among its old customs that enable them to survive the grips of hunger is small scale agriculture.

For the in-focus community of Brgy. Pinamihagan, a total of 1,232 indigenous people (IP) engage in small scale agriculture. Most of them depend on cultivation of corn and cassava for food. Drying these commodities and pounding them into small particles are their old ways to store and convert these crops into more palatable food to substitute for rice. Some of the IPs also sell these ground corn and cassava in the main barangay as animal feeds, and as raw materials used by small-scale *kakanin*, and *suman* producers in the island in return for meager income. Pounding on the other hand is hard work and time-consuming resulting to low productivity of residents. They spend a lot of time on pounding corn and cassava and could not allot more time to other income generating activities. Mechanizing this process would mean more time for other chores and livelihood opportunities for IPs. This project could also provide economic opportunity for the IP. Quality flour made from corn and cassava could be sold as admixtures to various snacks, chips, and other gluten-based foods while corn grits could be sold as animal feeds. It is in this light that this proposal has been forwarded.

**(8) Project Description** (Not to exceed 15 pages)

This proposal aims to establish a common service facility (CSF) for corn and cassava for Pinamihagan IP Community. The facility would be equipped with corn mill and cassava pulverizer that could be used by all the IPs in Brgy. Pinamihagan in rotation or per schedule basis. With this, primary processing of these agricultural crops would be promoted in the island which would then be converted into other food products and create livelihood opportunities to the community. The bLGU-Pinamihagan would provide the housing facility to safe-keep the equipment. It would also be in-charge of operation and maintenance of the facility to ensure its sustainable operation. R&D activities to develop new products from corn grits and cassava flour as well as use of cassava leaves would also be explored through this project.

**OBJECTIVES** (General and Specific)

The general objective of the project is to establish a common service facility (CSF) for corn and cassava for the Pinamihagan IP Community.

Specifically, it seeks to:

1. Provide agro-processing equipment such as corn mill and cassava pulverizer to the CSF;
2. Improve the productivity and income generating capacity of the IP community through engaging them in processing cassava and corn;
3. Enable the community to produce high-quality corn grits and cassava flour;
4. Provide capability training in production of various food products out of milled corn and cassava; and
5. Provide wider market for the primary commodities of the community which are cassava and corn.

**METHODOLOGY**

Once the project has been approved and funding has been allocated, the Regional Office, with the help of the PSTC, would facilitate the purchase of the proposed equipment. The baseline data would then be established through a meeting with the IP community and the bLGU of Pinamihagan. When all the equipment has been delivered and tested, training on the operation of equipment would be provided to the operators assigned by the proponent. Training on corn grits and cassava flour production would be requested from provincial office of the Department of Agriculture.

The proponent would produce corn grits, corn flour, and pulverized cassava which would be converted to animal feeds, gluten, and other snack foods. Though consumed for personal use, corn grits and cassava shavings are sold by some of the IPs in the main barangay as animal feeds, and as raw materials used by small-scale kakanin, and suman producers in the island in return for meager income. The products developed from the facility on the other hand would be marketed with the help of bLGU-Pinamihagan to create income to the IP community. The prospect market of the facility would be the 1,232 indigenous people (IP) engage in small scale cultivation of corns and cassava. Meanwhile, the two (2) big bakeries and the 6 small bakeries in the municipality will be the target market of the corn and cassava flour. For the corn and cassava grits on the other hand, prospect market would be the livestock farmers in the municipality and the producers of animal feed materials for the Tablas Island market. The equipment, on the other hand, would be housed at the barangay hall of Pinamihagan, San Jose to ensure the safety of the equipment. The bLGU-Pinamihagan would be responsible for the operation and schedule of maintenance of the equipment. Also, the bLGU will be the one responsible to assign a person who will operate the equipment and oversee the project. The assigned operator will be given various trainings such as training on the operation and maintenance of the equipment, 5S, basic financial management, and basic bookkeeping. Some of the marketing strategies that the proponent would engage with are: market presence, "buy local" promotion, direct bulk selling to cooperative stores and wholesalers, production of retail packs for walk-in clients, and active promotion through word of mouth, advertisements using social media, press releases through radio & local newspaper. In a year, the project is expected to be properly implemented and stable. The PSTC and its program partners would monitor the project for the next two years after establishing all the necessary input.

**EXPECTED OUTPUTS**

Publication	None
Patent/Intellectual Property	None
Product	None
People Service	bLGU-Pinamihagan Staff Indigenous People (IP)
Place and Partnership	bLGU-Pinamihagan
Policy	None

**EXPECTED OUTCOMES**

1. Serve at least 200 IPs to benefit from the CSF for corn and cassava processing
2. Develop at least two (2) output-products from the facility such as corn grits and cassava flour
3. Conduct at least two (2) trainings for the bLGU-Pinamihagan and IPs
4. Achieve at least 10-15% increase in productivity among IPs through engaging them in processing cassava and corn

5. Generate at least 50 pesos per day additional income for the IPs who engage in cassava and corn processing using the facility
6. Produce at least 2kg of corn grits and cassava flour per day of operation in the facility
7. Conduct at least one (1) training on food processing using corn and cassava for IPs
8. Link the facility to at least 1 market or regular buyer

### **PERCEIVED IMPACT**

#### **Social Impact**

1. More productive IP through spending more time on other chores and income generating activities
2. Empowered IPs to provide for the needs of their family through additional earnings from the corn and cassava products produced from the CSF

#### **Economic impact**

1. Availability of economical and quality corn grits and flour, and cassava flour in the locality
2. Economic activity for corn and cassava processing in the island municipality

### **SUSTAINABILITY PLAN**

Project profitability and sustainability would be ensured as there is an extensive market for animal feeds and flour, there sure and abundant supply of corn and cassava, and there would be a sure workforce from the IP community. Meanwhile, the CSF would gain its initial capital from the bLGU-Pinamihagan. This would be for the electricity and the incentive of the operator to encourage his active participation in the project. In the following operations, the IP who would use the facility would pay a little amount of toll fee for the facility's overhead expenses. Toll fee will be determined with the help of the CEST Champion of the PSTC through financial and profit analysis of the facility. This is to ensure sustainability of the project.

Discussion on the results of related project handled by the same proponent (if any)

### **(9) Workplan** (See Form B)

### **(10) Project Management** (not to exceed one page)

The project would be carried out by the bLGU-Pinamihagan under close supervision of DOST PSTC Romblon. In the purchase of equipment and other aspects of project implementation, the PSTC would work with the regional office. DOST would also provide training on equipment utilization and maintenance to the bLGU's assigned operator/s. Also, series of training would be provided to the Pinamihagan IP community such as corn and cassava processing, basic food safety, production, and post-harvest productivity.

The equipment would be housed in one part of the Pinamihagan barangay hall. It would be operated by bLGU-trained staff to increase the machine's useful life and ensure its safety. The bLGU's primary responsibility is to manage the common service facility and ensure that the project runs smoothly to be profitable.

### **III. ATTACHMENTS** (Please refer to the DOST-GIA Guidelines for the necessary documents.)

Prepared by:



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Barangay Captain, bLGU-Pinamihagan  
LGU-San Jose, Romblon

Endorsed by:



**MARCELINA V. SERVAÑEZ**  
Provincial S&T Director  
DOST Provincial Office Romblon

Approved by:



**DR. MA. JOSEFINA P. ABILAY**  
Regional Director  
DOST-MIMAROPA


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Ma. Josefina Pormento  
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**DOST Form A**  
**DEPARTMENT OF SCIENCE AND TECHNOLOGY**  
**Project Line-Item Budget**  
**CY 2022**


Program Title : Grants-in-Aid (GIA)  
 Project Title : Common Service Facility for Corn and Cassava Processing of Pinamihagan IP Community  
 Implementing Ager : DOST-MIMAROPA  
 Total Duration : 1 year for project implementation / 2 years for monitoring of outcomes  
 Current Duration : 1 year  
 Cooperating Agenc : bLGU-Pinamigahan  
 Project Leader : Hon. Teodoro Zacarias/Male  
 Monitoring Agency : DOST-MIMAROPA PSTC-Romblon

	<u>Counterpart Funding</u>	
	<u>DOST</u>	<u>bLGU-Pinamihagan</u>
<b>II. Maintenance and Other Operating Expenses</b>		
Traveling Expenses - local	24,000.00	
Training Expenses		
Traveling Expenses - local	20,000.00	
Supplies and Materials Expenses	10,000.00	
Fuel, Oil and Lubricants Expenses	1,000.00	
Other Professional Services	5,600.00	
Printing and Publication Expenses ( <i>training&amp;project tarp</i> )	500.00	
Representation expenses	5,000.00	
Rents-Motor Vehicles	8,000.00	
Supplies and Materials		
Office supplies	20,000.00	
Fuel, Oil and Lubricants Expenses	1,500.00	
Communication Expenses		
Telephone Expenses - Mobile (PSTC load 4,250 x 12 months)	51,000.00	
Internet Subscription Expenses (PSTC wifi 999 + 8,500 x 12 months)	113,988.00	
Other Professional Services	16,000.00	
Rent/Lease Expenses (vehicle)	36,000.00	
<u>Indirect Cost</u>		
<b>(Implementing Agency)</b>		
Utilities ( <i>honorarium of operator, operating expenses</i> )		328,320.00
One operator (200/day x 3 days/week x 4weeks/mo x 12 mos) - P28,800		
Operating expenses		
Raw materials (10/kg x 40kg corn&cassava/hr x 4hrs/day x 3days/week x 4weeks/mo x 12mos) - P230,400		
Diesel (60/L x 2L/hr x 4hrs/day x 3days/week x 4weeks/mo x 12mos) - P69,120		
<b>Sub-Total for MOOE</b>	<b>P 312,588.00</b>	<b>P 328,320.00</b>
<b>III. Equipment Outlay</b>		
Corn Milling Machine, 18hp diesel engine, 400-600 kg/hr capacity, output: crack corn, corn grits (#10, 12, 16), corn flour, corn hull	245,000.00	
Crusher and Pulveriser, 3 hp electric motor engine,180-400 kg per hour capacity, functions: Cassava, Coffee, Turmeric, Ipa, Chili, Mais, Other beans	30,000.00	
<u>Indirect Cost</u>		
<b>(Implementing Agency)</b>		
Land and Building		300,000.00
<b>Sub-Total for EO</b>	<b>P 275,000.00</b>	<b>P 300,000.00</b>
<b>GRAND TOTAL</b>	<b>P 587,588.00</b>	<b>P 628,320.00 *</b>

Certified Funds Available:




**PYM BRIGIDO**  
Baranggay Treasurer, bLGU-Pinamihagan



**JEFFREY D. VARELA**  
Accountant III, DOST-MIMAROPA

Approved by:



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 Ma. Josefina Pormento  
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**DR. MA. JOSEFINA P. ABILAY**  
Regional Director, DOST-MIMAROPA

**DOST Form B**  
**PROJECT WORKPLAN**

**(1) Program Title:** Grants-in-Aid (GIA)

**(2) Project Title:** Common Service Facility for Corn and Cassava Processing of Pinamihagan IP Community

**(3) Total Duration (in months):** 12 months implementation & 24 months monitoring

**(4) Planned Start Date:** January 2022 **(5) Planned End Date:** January 2023

(6) OBJECTIVES	(7) TARGET ACTIVITIES	(8) TARGET ACCOMPLISHMENTS (quantify, if possible)	Y1				Y2				Y3			
			Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4
1. Provide agro-processing equipment such as corn mill and cassava pulverizer	Procurement, delivery, and commissioning of corn mill and cassava pulverizer to the common service facility (CSF) in the IP community of Brgy. Pinamihagan  Proper lay outing of the building to house and safekeep the equipment before operation	Serve at least 200 IPs to benefit from the CSF for corn and cassava processing  Develop at least two (2) output-products from the facility such as corn grits and cassava flour			x									
2. Improve the productivity and income generating capacity of the IP community through engaging them in processing cassava and corn	Training on operation and maintenance of corn mill and cassava pulverizer for bLGU-Pinamihagan  Training on 5S, basic financial management, and basic bookkeeping for bLGU-Pinamihagan	Conduct at least two (2) trainings for the bLGU-Pinamihagan and IPs  Achieve at least 10-15% increase in productivity among IPs through engaging them in processing cassava and corn  Generate at least 50 pesos per day additional income for the IPs who engage in cassava and corn processing using the facility				x								
3. Enable the community to produce high-quality corn grits and cassava flour	Training on corn grits and cassava flour production for IP	Produce at least 2kg of corn grits and cassava flour per day of operation in the facility				x								
4. Provide capability training in production of various food products out of milled corn and cassava	Training on food processing using corn and cassava for IP	Conduct at least one (1) training on food processing using corn and cassava for IPs					x							
5. Provide wider market for the primary commodities of	Identification of market and linking to potential buyers that would regularly	Link the facility to at least 1 market or regular buyer					x							

[illegible]