DOST-RO Form No. 4

PROJECT PROPOSAL
2023 DOST-GIA FUNDING

I. PROJECT PROFILE

(1) Project Title: Adoption of SES Technology for Domestic Water Generation with Distribution System for Indigenous People of San Jose

(2) Project Leader/Sex: Hon. Teodoro Zacarias/Male
Agency: LGU-San Jose and bLGU- Pinamihagan
Address/Telephone/Fax/Email: 09460971472

(3) Cooperating Agency/ies:
LGU-San Jose and bLGU- Pinamihagan

(4) Site/s of Implementation
Base Station: Brgy. Pinamihagan, San Jose, Romblon, Region-IVB
Other Implementation Site (s): None

(5) Project Duration: 1 year for project implementation
2 years for monitoring of outcomes

(6) Total Project Cost: (indicate Counterpart Funds; use Form A for the Line-Item Budget)

Source of Fund / Site(s) of Implementation	PS	MOOE	EO	Total
A. GIA	PhP 220,904.00	PhP 203,900.00	PhP 596,000.00	PhP 1,020,804.00
B. LGU-San Jose		PhP 205,000.00	PhP 300,000.00	PhP 505,000.00
TOTAL	**PhP 220, 904.00**	**PhP 408,900.00**	**PhP 896,000.00**	**PhP 1, 525, 804.00**

II. PROJECT SUMMARY

(7) Rationale (Not to exceed one page)

San Jose 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. The IP community in this barangay is composed of 15 households. Each household has 8-15 members totaling to an average of 225 IPs. 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. In 2022, a common processing facility for cassava and corn was established to increase the community's productivity and to provide them with entrepreneurial activity as additional source of income. Water poverty on the other hand remain to be a major source of burden to the IP community. These indigenous people (IP) travels by foot to gather domestic water from the nearest source which is more than 1 kilometer away from its community. However, travel to the source is not a burden to the IPs. The difficult part is when they travel back to their community while carrying the added weight of water containers. Some household with extra money resort to hiring motorcycles to convey their waters. These motorcycles charge them of PhP20.00 per gallon. After the motorcycles on the other hand, the IPs still need to travel few meters by foot to their houses that are located on the mountainous part of the community.

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

As part of the smarter community program of the DOST-MIMAROPA, this project would try to address the water poverty in the IP community in Brgy. Pinamihagan, San Jose through adoption of solar energy technology in generating and distributing domestic water. Water will be generated by a solar-powered water pumping system and will be circulated directly to households through a distribution system. The solar-powered water pumping system and the primary pipes of the distribution system will be DOST-MIMAROPA's counterpart while the secondary pipes going to each household in the IP community will be LGU-San Jose's counterpart. This project will also follow through the interventions started in 2022 on establishment of the corn and cassava processing facility.

OBJECTIVES (General and Specific)

The general objective of the project is to adopt the solar energy technology in generating and distributing domestic water to ensure its stable source among the IP community in Brgy. Pinamihagan, San Jose, Romblon.

Specifically, it seeks to:

1. Establish a solar-powered water pumping system to generate domestic water for the IP community in Brgy. Pinamihagan, San Jose
2. Complement the solar-powered water pumping system with a distribution system through providing the primary pipes of the system
3. Tap the LGU-San Jose to provide counterparts especially for the secondary pipes of the distribution system and the workforce to construct the facility
4. Improve the productivity and enhance the well-being of the IPs in the area

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 facility. The baseline data would then be established through a meeting with the IP community, the bLGU of Pinamihagan, and the LGU-San Jose. The solar-powered water pumping system and the primary pipes of the distribution system will be DOST-MIMAROPA's counterpart. Meanwhile, the LGU-San Jose will be tapped to provide counterparts for the housing of the facility and for the secondary pipes going to each household in the IP community. When the facility is complete, training on its operation and maintenance would be provided to the operators. The operators will be assigned by the bLGU-Pinamihagan. Since the facility is solar powered, there is no need to allocate energy expenses to operate the facility. However, the bLGU-Pinamihagan would be encouraged to allocate funds for replacement of batteries and inverters when they reach its maximum service life. This will be a minimum amount though because batteries and inverters have at least 5 years' service life. Monitoring of the interventions including the corn and cassava facility will be charged against the budget of this project. A staff from the Romblon Provincial Science and Technology Office would also be hired to focus on this project and to manage the overall aspects of the project.

EXPECTED OUTPUTS

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

EXPECTED OUTCOMES

1. Served at least 225 IPs in Brgy. Pinamihagan through the solar-powered water pumping facility with distribution system to generate domestic water
2. Conducted at least 1 training for the community
3. Secured at least PhP500,000 counterpart from the LGU-San Jose to complement the project

PERCEIVED IMPACT

Social Impact

1. Provided stable source of domestic water to the IP community
2. Improve the productivity and well-being of the IP community

Economic impact

1. The time saved from travelling to gather water can now be spent to more economic activity of the IPs

SUSTAINABILITY PLAN

Project sustainability would be ensured as the facility is solar-powered and requires fewer operating costs. The project manager assigned in San Jose would also oversee the overall aspect of the project to ensure deliverables by stakeholders are met. The DOST-MIMAROPA through its Romblon Provincial Science and Technology Office (PSTO), LGU-San Jose, and bLGU-Pinamihagan would work hand in hand to maximize and sustain the project.

(9) Workplan (See Form B)

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

The project would be carried out by the IP community under close supervision of LGU-San Jose, bLGU-Pinamihagan, and DOST PSTO Romblon. For the establishment of facility and other aspects of project implementation, the PSTO would work with the regional office and LGU-San Jose. DOST would also provide training on facility operation and maintenance to the assigned operator/s. Other interventions that would be identified would also be provided to ensure project sustainability and success.

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

Prepared by:

HON. TEODORO ZACARIAS
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