



April 18, 2023

MEMORANDUM

FOR : The Regional Executive Director
MIMAROPA Region

THRU : The Assistant Regional Director for Technical Services

FROM : The OIC-PENRO
Oriental Mindoro

**SUBJECT : SUBMISSION OF PROPOSAL FOR BAMBOO NURSERY AND
PLANTATION IN THE OIL SPILL-AFFECTED BARANGAYS
IN THE MUNICIPALITIES OF NAUJAN AND POLA,
ORIENTAL MINDORO**

Submitted is the proposal for Bamboo Nursery and Plantation in the oil spill-affected barangays in the municipalities of Naujan and Pola, Oriental Mindoro.

The project shall be implemented for three (3) years, with a total project cost of ₱ 8,461,200.00. A total of 660 fisherfolks shall benefit in this project (30 persons in each of 22 affected barangays).

Given that the bamboo has a potential market in the Municipality of Gloria, Oriental Mindoro, a wide range of opportunities are foreseen in this project that will both generate long term profit and benefits to the oil spill affected beneficiaries.

Further, the established bamboo plantation is considered as another sustainable source of income to the affected barangays when developed into a Community Bamboo Eco-Parks.

Attached are the concept paper and the corresponding Work and Financial Plan (WFP) of the aforementioned subject.

For information, records and consideration.


ALAN VALLE





March 22, 2023

MEMORANDUM

FOR : The Regional Executive Director
THRU : The OIC, PENR Officer
FROM : The CENR Officer
SUBJECT : **SUBMISSION OF PROPOSAL FOR BAMBOO NURSERY AND PLANTATION IN THE OIL SPILL-AFFECTED BARANGAYS IN THE MUNICIPALITIES OF NAUJAN AND POLA, ORIENTAL MINDORO**

Respectfully submitting the proposal for Bamboo Nursery and Plantation in the oil spill-affected barangays in the Municipalities of Naujan and Pola, Oriental Mindoro.

The total project cost is ₱ 8,461,200.00 which shall be implemented for three (3) years. A total of 660 persons (30 persons in each 22 affected barangays) shall benefit from the project. Likewise, about 67,320 bamboos shall be planted and maintained in the 330-ha bamboo plantation (15 ha/ barangays) with 7m x 7m spacing (204 bamboos/ ha). The bamboo to be produced and planted includes Bayog (*Bambusa merrilliana* (Elmer) Rojo & Roxas), Bolo (*Gigantochloa levis* (Blanco) Merr.), Kawayang Tinik (*Bambusa blumeana* J.A. & J.H. Schultes) and Taywanak/ Kawayan Kiling (*Bambusa vulgaris* Schrad.).

Bamboo has a potential market to the Municipality of Gloria, Oriental Mindoro, which has a processing plant for bamboo products. The project is part of the rehabilitation and recovery program for the aforementioned municipalities. This shall be beneficial and profitable to the oil spill-affected beneficiaries in the long term.

Further, the established bamboo plantations shall be developed into a Community Bamboo Eco-Parks which has ecotourism potential and seen as another sustainable source of income to the affected barangays. The details of the proposed activity/ project shall be discussed to the respective Municipal and Barangay LGUs.

Attached are the concept paper and the corresponding Work and Financial Plan (WFP).

For information, evaluation and consideration.

CENRO Tracking No.: 2304000264
CENRO Socorro - APMSS and CDS - Mackalely

Barangay Pasi II, Socorro, Oriental Mindoro
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RODEL M. BOYLES



BAMBOO NURSERY AND PLANTATION ESTABLISHMENT
*(PROPOSED REHABILITATION AND RECOVERY PROGRAM FOR THE 22 OIL
SPILL-AFFECTED BARANGAYS IN THE MUNICIPALITIES OF NAUJAN AND
POLA, ORIENTAL MINDORO)*

The Bamboo Nursery and Plantation is a proposed Rehabilitation and Recovery Program of the Department of Environment and Natural Resources (DENR) for the 22 coastal barangays in the Municipalities of Naujan and Pola, Oriental Mindoro affected by the MT Princess Empress oil spill tragedy. This aims to provide financial assistance to the qualified individuals identified by the Municipal and Barangay Local Government Units (LGUs) while producing quality bamboo culms/ propagules for the rehabilitation and recovery of the 330 ha of lands. The total project cost is ₱ 8,461,200.00 which shall be implemented for three (3) years (Year 1 = ₱ 5,161,200.00; Year 2 = ₱ 1,650,000.00; Year 3 = ₱ 1,650,000.00).

The **1st Year Activities of Bamboo Nursery and Plantation** include the following:

1. Establishment of Bamboo nursery (1st-2nd Quarter)
 - a. Nursery establishment and Operations;
 - 1) Select nursery site
 - 2) Prepare the nursery site
 - 3) Construct nursery infrastructure and facilities such as seedbeds, pot beds, germination shed, potting shed, water storage, composting area, fencing, road ' network, and bunkhouse
 - b. Seedling production
 - c. Care and maintenance of seedlings
 - Watering
 - Weeding
 - Shading
 - Root pruning
 - Fertilizer application
 - Protection from pests and diseases
 - d. Hardening-off seedlings
 - e. Grading and classifying the seedlings
2. Site Preparation and Planting Including Construction of Firebreaks (3rd Quarter); and
3. 1st Cycle Maintenance and Protection (4th Quarter)
 - a. Ring weeding
 - b. Patrol works (Monitoring of Perimeter and other Wildlife Damage)
 - c. Application of fertilizer
 - d. Replanting of bamboo culms/ propagules.

Meanwhile, the **2nd and 3rd Year Maintenance and Protection Activities of Bamboo Nursery and Plantation** include the following:

1. Ring weeding/ strip brushing;
2. Procurement and application of organic fertilizer;
3. Replanting activity;
4. Establishment/ maintenance of fire breaks;
5. Foot patrolling (Monitoring of Perimeter and other Wildlife Damage); and
6. Watering.



A total of 660 persons (30 persons in each 22 affected barangays) shall benefit from the project. About 67,320 bamboos shall be planted and maintained in the 330 ha bamboo plantation (15 ha/ barangays) with 7m x 7m spacing (204 bamboos/ ha). The bamboo to be produced and planted includes Bayog (*Bambusa merrilliana* (Elmer) Rojo & Roxas), Bolo (*Gigantochloa levis* (Blanco) Merr.), Kawayang Tinik (*Bambusa blumeana* J.A. & J.H. Schultes) and Taywanak/ Kawayan Kiling (*Bambusa vulgaris* Schrad.).

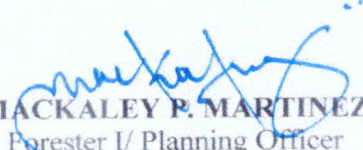
Bamboo is a group of perennial evergreen belonging to the grass family – Poaceae. Bamboos are some of the fastest-growing plants in the world. It has a potential market to the Municipality of Gloria, Oriental Mindoro, which has a processing plant for bamboo products. Dubbed as the “wise man’s timber”, bamboos are notable for its economic significance mainly used as a renewable and versatile material. Its products can be classified into poles, stumps, sawali, spits, sticks, boards, handicraft, furniture and ready-to-cook/ eat shoots. Given the wide range of opportunities, the Bamboo Nursery and Plantation in the Municipalities of Naujan and Pola, Oriental Mindoro is both beneficial and profitable to the oil spill-affected beneficiaries in the long term.

Further, the established bamboo plantations shall be developed into a Community Bamboo Eco-Parks which has ecotourism potential and seen as another sustainable source of income to the affected barangays. The details of the proposed activity/ project shall be discussed to the respective Municipal and Barangay LGUs.

Attached is the corresponding Work and Financial Plan of Bamboo Nursery and Plantation.

Prepared by:

Reviewed and Approved by:


MACKALEY P. MARTINEZ
Forester I/ Planning Officer


RODEL M. ROYLES
CENR Officer

Bamboo Nursery and Plantation Establishment
(Proposed Rehabilitation and Recovery Program for the
22 Oil Spill-Affected Barangays in the Municipality of Naujan and Pola, Oriental Mindoro)

Proposed by: DENR-CENRO Socorro, Oriental Mindoro

[illegible]

PROGRAM / ACTIVITY / PROJECT	Unit (p)	PERFORMANCE INDICATORS	PROVINCE/ MUNICIPALITY	2023 Physical Performance Targets					2023 Financial Performance Targets				TOTAL
				Q1	Q2	Q3	Q4	TOTAL	Q1	Q2	Q3	Q4	
				Estimate (3)	Estimate (4)	Estimate (5)	Estimate (6)	7= (3+4+5+6)	Estimate (8)	Estimate (9)	Estimate (10)	Estimate (11)	12= (8+9+10+11)
			Poa, Oriental Mindoro			165		165			330,000		330,000
		- Barangay Misong				15		15			30,000		30,000
		- Barangay Tagumpay				15		15			30,000		30,000
		- Barangay Puling Cacao				15		15			30,000		30,000
		- Barangay Tiguanan				15		15			30,000		30,000
		- Barangay Bayanan				15		15			30,000		30,000
		- Barangay Zone I				15		15			30,000		30,000
		- Barangay Zone II				15		15			30,000		30,000
		- Barangay Batuhan				15		15			30,000		30,000
		- Barangay Calima				15		15			30,000		30,000
		- Barangay Buray na Tubig				15		15			30,000		30,000
		- Barangay Bakawan				15		15			30,000		30,000
1st Cycle Maintenance and Protection (4th Quarter)	2,000/ ha	Area effectively maintained and protected with at least 85% survival rate										660,000	660,000
Maintenance and Protection of Plantation	204 bamboo	Site prepared and planted (m)					330	330				660,000	660,000
1. Ring weeding			Naujan, Oriental Mindoro				165	165				330,000	330,000
2. Patrol works (Monitoring of Perimeter and other Wildlife Damage)													
3. Application of fertilizer													
4. Replanting of bamboo culms/ propagules													
		- Barangay Nag-Ibal				15		15			30,000		30,000
		- Barangay San Antonio				15		15			30,000		30,000
		- Barangay Estrella				15		15			30,000		30,000
		- Barangay Sta. Cruz				15		15			30,000		30,000
		- Barangay Kainasan				15		15			30,000		30,000
		- Barangay San Jose				15		15			30,000		30,000
		- Barangay Melgar A				15		15			30,000		30,000
		- Barangay Melgar B				15		15			30,000		30,000
		- Barangay Montemayor				15		15			30,000		30,000
		- Barangay Herrera				15		15			30,000		30,000
		- Barangay Masangung				15		15			30,000		30,000
		Poa, Oriental Mindoro					165	165				330,000	330,000
		- Barangay Misong				15		15			30,000		30,000
		- Barangay Tagumpay				15		15			30,000		30,000
		- Barangay Puling Cacao				15		15			30,000		30,000
		- Barangay Tiguanan				15		15			30,000		30,000
		- Barangay Bayanan				15		15			30,000		30,000
		- Barangay Zone I				15		15			30,000		30,000
		- Barangay Zone II				15		15			30,000		30,000
		- Barangay Batuhan				15		15			30,000		30,000
		- Barangay Calima				15		15			30,000		30,000
		- Barangay Buray na Tubig				15		15			30,000		30,000
		- Barangay Bakawan				15		15			30,000		30,000
Year 2	5,000/ ha	Area effectively maintained and protected with at least 85% survival rate										660,000	660,000
Maintenance and Protection of Plantation	204 bamboo		Naujan, Oriental Mindoro									275,000	275,000
1. Ring weeding/ strip brushing													
2. Procurement and application of organic fertilizer													
3. Replanting activity													
4. Establishment/ maintenance of fire breaks													
5. Four patrolling (Monitoring of Perimeter and other Wildlife Damage)													
6. Watering													
		- Barangay Nag-Ibal				15		15			25,000		25,000
		- Barangay San Antonio				15		15			25,000		25,000
		- Barangay Estrella				15		15			25,000		25,000
		- Barangay Sta. Cruz				15		15			25,000		25,000
		- Barangay Kainasan				15		15			25,000		25,000
		- Barangay San Jose				15		15			25,000		25,000
		- Barangay Melgar A				15		15			25,000		25,000
		- Barangay Melgar B				15		15			25,000		25,000
		- Barangay Montemayor				15		15			25,000		25,000
		- Barangay Herrera				15		15			25,000		25,000
		- Barangay Masangung				15		15			25,000		25,000
		Naujan, Oriental Mindoro										275,000	275,000
		- Barangay Nag-Ibal				15		15			25,000		25,000
		- Barangay San Antonio				15		15			25,000		25,000
		- Barangay Estrella				15		15			25,000		25,000
		- Barangay Sta. Cruz				15		15			25,000		25,000
		- Barangay Kainasan				15		15			25,000		25,000
		- Barangay San Jose				15		15			25,000		25,000
		- Barangay Melgar A				15		15			25,000		25,000
		- Barangay Melgar B				15		15			25,000		25,000
		- Barangay Montemayor				15		15			25,000		25,000
		- Barangay Herrera				15		15			25,000		25,000
		- Barangay Masangung				15		15			25,000		25,000
		Naujan, Oriental Mindoro										275,000	275,000
		- Barangay Nag-Ibal				15		15			25,000		25,000
		- Barangay San Antonio				15		15			25,000		25,000
		- Barangay Estrella				15		15			25,000		25,000
		- Barangay Sta. Cruz				15		15			25,000		25,000
		- Barangay Kainasan				15		15			25,000		25,000
		- Barangay San Jose				15		15			25,000		25,000
		- Barangay Melgar A				15		15			25,000		25,000
		- Barangay Melgar B				15		15			25,000		25,000
		- Barangay Montemayor				15		15			25,000		25,000
		- Barangay Herrera				15		15			25,000		25,000
		- Barangay Masangung				15		15			25,000		25,000
		Naujan, Oriental Mindoro										275,000	275,000
		- Barangay Nag-Ibal				15		15			25,000		25,000
		- Barangay San Antonio				15		15			25,000		25,000
		- Barangay Estrella				15		15			25,000		25,000
		- Barangay Sta. Cruz				15		15			25,000		25,000
		- Barangay Kainasan				15		15			25,000		25,000
		- Barangay San Jose				15		15			25,000		25,000
		- Barangay Melgar A				15		15			25,000		25,000
		- Barangay Melgar B				15		15			25,000		25,000
		- Barangay Montemayor				15		15			25,000		25,000
		- Barangay Herrera				15		15			25,000		25,000
		- Barangay Masangung				15		15			25,000		25,000
		Naujan, Oriental Mindoro										275,000	275,000
		- Barangay Nag-Ibal				15		15			25,000		25,000
		- Barangay San Antonio				15		15			25,000		25,000
		- Barangay Estrella				15		15			25,000		25,000
		- Barangay Sta. Cruz				15		15			25,000		25,000
		- Barangay Kainasan				15		15			25,000		25,000
		- Barangay San Jose				15		15			25,000		25,000
		- Barangay Melgar A				15		15			25,000		25,000
		- Barangay Melgar B				15		15			25,000		25,000
		- Barangay Montemayor				15		15			25,000		25,000
		- Barangay Herrera				15		15			25,000		25,000
		- Barangay Masangung				15		15			25,000		25,000
		Naujan, Oriental Mindoro										275,000	275,000
		- Barangay Nag-Ibal				15		15			25,000		25,000
		- Barangay San Antonio				15		15			25,000		25,000
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		- Barangay Sta. Cruz				15		15			25,000		25,000
		- Barangay Kainasan				15		15			25,000		25,000
		- Barangay San Jose				15		15			25,000		25,000
		- Barangay Melgar A				15		15			25,000		25,000
		- Barangay Melgar B				15		15			25,000		25,000
		- Barangay Montemayor				15		15			25,000		25,000
		- Barangay Herrera				15		15			25,000		25,000
		- Barangay Masangung				15		15			25,000		25,000
		Naujan, Oriental Mindoro										275,000	275,000
		- Barangay Nag-Ibal				15		15			25,000		25,000
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		- Barangay Kainasan				15		15			25,000		25,000
		- Barangay San Jose				15		15			25,000		25,000
		- Barangay Melgar A				15		15			25,000		25,000
		- Barangay Melgar B				15		15			25,000		25,000
		- Barangay Montemayor				15		15			25,000		25,000
		- Barangay Herrera				15		15			25,000		25,000
		- Barangay Masangung				15		15			25,000		25,000
		Naujan, Oriental Mindoro										275,000	275,000
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		- Barangay Estrella				15		15			25,000		25,000
		- Barangay Sta. Cruz				15		15			25,000		25,000
		- Barangay Kainasan				15		15			25,000		25,000
		- Barangay San Jose				15		15			25,000		25,000
		- Barang											

