

## Republic of the Philippines Department of Environment and Natural Resources MIMAROPA Region

Provincial Environment and Natural Resources Office Oriental Mindoro

DENF	MIMAROPA RDS SECTION
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BY: DATE:	*
TIME:	

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.

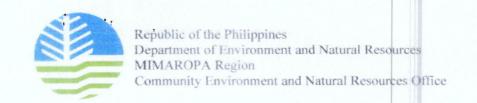
The project shall be implemented for three (3) years, with a total project cost of ₱ 8,461,200.00. A total of 660 fisherfolks shall benefit in this project (30 persons in each of 22 affected barangays).

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.



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 \$\mathbb{P}\$ 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.

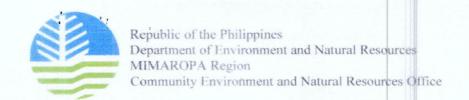
Further, the established bamboo plantations shall be developed into a Community Bamboo Eco-Parks which has ecotourism potential and seen as another sustainable source of income to the affected barangays. The details of the proposed activity/ project shall be discussed to the respective Municipal and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

Barangay Pasi II, Socorro, Oriental Mindoro Tel. No.: (043) 285 - 7068; Email: cenrosocorro@denr.gov.ph



### 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  $\P$  8,461,200.00 which shall be implemented for three (3) years (Year  $1 = \P$  5,161,200.00; Year  $2 = \P$  1,650,000.00; Year  $3 = \P$  1,650,000.00).

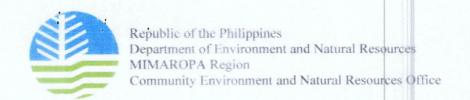
# The 1st Year Activities of Bamboo Nursery and Plantation include the following:

- 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 Widllife Damage)
  - c. Application of fertilizer
  - d. Replanting of bamboo culms/ propagules.

# Meanwhile, the 2<sup>nd</sup> and 3<sup>rd</sup> 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.

Barangay Pasi II, Socorro, Oriental Mindoro Tel. No.: (043) 285 - 7068; Email: cenrosocorro@denr.gov.ph



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:

Porester I/ Planning Officer

CENR Officer

Barangay Pasi II, Socorro, Oriental Mindoro Tel. No.: (043) 285 - 7068; Email: cenrosocorro@denr.gov.ph

# 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)

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nance and Protection of Plantation  (204 bamboo  g weeding/ strip brusking  (204 bamboo  propagules/ he)  Berangay Nag iba I  Barangay San Antonio  Berangay Estrella  Berangay San Antonio  Berangay San Jose  Berangay Neigar B  Berangay Neigar B  Berangay Neigar B  Berangay Puting Cacao  Berangay Zone II  Berangay Zone II  Berangay Zone II  Berangay San Antonio  Berangay Puting Cacao  Berangay Zone II  Berangay Zone II  Berangay Zone II  Berangay San Antonio		5,000/ ha	Area effectively maintained and profected with ar least 85% survival rate		330	330	330	330	330		550,000	550,000	550,000	
(204 bamboo propagules/ ha)  Barangay Nag-Iba I  Barangay San Antonio Baks  Barangay San Antonio Barangay Sta Cruz  Barangay San Jose Barangay Kalinisan  Barangay Majgar A  Barangay Majgar A  Barangay Melgar B  Barangay Movitemayor  Barangay Movitemayor  Barangay Masaguing  Barangay Masaguing  Barangay Tagumpay  Barangay Tagumpay  Barangay Tagumpay  Barangay Bayanan  Barangay Zone I  Barangay Cane I														
ortopagules/ ha)  Barrangay Neg-Iba I  Barrangay San Antonio  Barrangay San Antonio  Barrangay San Cruz  Barrangay San Lose  Barrangay Malanar A  Barrangay Malanar B  Barrangay Hererra  Barrangay Hererra  Barrangay Hererra  Barrangay Masaguing  Barrangay Masaguing  Barrangay Jane I  Barrangay Zane II  Barrangay Bartana	arrienance and Protection of Plantation	(204 bamboo	ing design of the second secon	Naujan, Oriental Mindoro	1651	165	165	165	160		000.67%	000,072	1000 072	
Procurement and application of organic fertilizer  Procurement and application of organic fertilizer  Replanning activity  Establishment/ maintenance of fire breaks  Foot patrolling (Monitoring of Perimeter and other Widlife Damage)  Parangay (Masangay Masangar)  Parangay (Masangay Taguihan  Parangay (Taguihan  Para	And being the second and the second	propagules/ na)			A	-	Supply of the Control of the Control				25,000	25,000	25 000	
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Foot patroling in Permater and Outer William Foot patroling - Berangay San Jose - Berangay San Jose - Berangay San Jose - Berangay Melgar A - Berangay Melgar B - Berangay Melgar B - Berangay Melgar B - Berangay Mantemayor - Berangay Mantemayor - Berangay Mantemayor - Berangay Masaguing - Berangay Masaguing - Berangay Masaguing - Berangay Pating Cacab - Berangay Pating Cacab - Berangay Zone I - Berangay Zone I - Berangay Zone I - Berangay Bauthan - Berangay Calima - Berangay C		Damage	Barrany Sta Carr		ch .	ு மிற	हों हो हो	ल ल ल	ਨੂੰ ਨੂੰ ਨੂੰ		25,000	25 000 25 000	25 000 25 000	
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ayor pola			Baranday San Jose		14.	के के के के के	ल ले ले ले ले	ळ ळ ळ ळ ळ	ज ज ज ज ज		25 000	25 000 25 000 25 000 25 000	25 000 25 000 25 000 25 000 25 000 25 000	
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Barangay Bayanan  Barangay Bayanan  Barangay Zone I  Barangay Batuhan  Barangay Calima  Tulo			- Barangay Masaguing - Barangay Misong	Onenta	5 5 <b>8</b> 5 5 5 5 5 5		ភភ គឺ ឆេសថសថថា គេគេគេ	ស្នី និស្សិសិសិសិសិសិសិសិសិសិ	ವರ 🖁 ಪಠಪಠಪಠಪಠಪಠಪ		25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000	25,000 26,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000	
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- Barangay Zone I - Barangay Zone II - Barangay Batuhan - Barangay Calima			- Barangay Masaguing  Barangay Masaguing  Barangay Masang  Barangay Tagumpay  Barangay Puting Cacao  Barangay Tibuhan	Opertal	ភភភភ 👼 ភភភភភភភ	क्रक्रक <del>क</del> ि क्रक्रक्रक क्रक्रक के	ಪ್ರಾಪ್ತನ ಕ್ಷೇತ್ರ ಪ್ರಾಪ್ತಕ್ಕೆ ಕ್ಷಣೆ ಕ್ಣಣೆ ಕ್ಷಣೆ ಕ	ជនជន 🕏 ជនជនជនជនជនជនជ	ಶದದರ 💆 ರಶದದರೆಗಳು		25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 26,000 26,000 25,000 25,000 25,000 25,000 25,000	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000	25 000 25 000	
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The second secon			- Barangay Maseguing  Barangay Maseguing  Barangay Tagumpay - Barangay Puting Cacao - Barangay Tiguthan - Barangay Zone I - Barangay Zone II - Barangay Zone II - Barangay Batuhan	Oriental	ង់ស្នងនេស្សស្នី ស្លស្និតិសិល	* # # # # # # # # # # # # # # # # # # #	តែលើសិលីសិលីសិលីសិលី សិលីសិលីសិលីសិលីសិលីសិលី	និស្សស្រីស្រី ស្រុសស្រីស្រីស្រីស្រីស្រីស្រីស្រីស្រីស្រីស្រ	និក្សិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិតិសិកិ		25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000	25,000 26,000 26,000 26,000 26,000 26,000 25,000	25,000 25,000	
- Barand Aspiration Aspiration			- Barangay Masaguing  Barangay Misong - Barangay Tagumpay - Barangay Tiguihan - Barangay Zone I - Barangay Zone I - Barangay Zone II - Barangay Calima	Oriental	. ಕೃತ್ವಕ್ಕೆ	* # # # # # # # # # # # # # # # # # # #	***************************************	តែស្រីស្រីស្រីស្រីស្រី ស្រីស្រីស្រីស្រីស្រីស្រី	ಕರೆದರೆಯೆಯೆಯೆಯೆಂದರೆ ಕ್ರಿಕೆ ಕೆಯೆಯಿಂದಿದೆದೆ		25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 27,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000	25,000 25,000	25,000 25,000	
- Barangay Bakawan			- Barangay Masaguing  Barangay Masaguing  Barangay Tagumpay  Barangay Puting Cacao  Barangay Tiguihan  - Barangay Zone II  Barangay Zone II  Barangay Zone II  Barangay Batuhan  - Barangay Buhaya na Tubig  Barangay Buhaya na Tubig	Oriental	. 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	តែលាល់ សិស្សាល់ សិស្សិល សិស្សិ	ನಡೆದರೆದರೆದರೆದರೆ ಪ್ರತಿ ಕ್ರಿಪಿಸಿದರೆಗೆ ಕೆರೆದರೆ	ក្រុង គេ	នភាភិគិស្សិសិសិសិសិសិសិសិសិសិសិសិសិសិសិសិសិស		25,000 25,000	25,000 25	25 000 25 000	



Prepared by



