Republic of the Philippines
Department of Environment and Natural Resources
Visayas Avenue, Diliman, Quezon City
Tel Nos. 929-6626 to 29; 929-6633 to 35
926-7041 to 43; 929-6252; 929-1669
Website: http://www.denr.gov.ph / E-mail: web@denrgov.ph

MEMORANDUM

FOR : **The Regional Executive Director**
DENR – Region 4B (MIMAROPA)
Roxas Boulevard, Malate, Manila

FROM : **The Director**
Financial and Management Service

SUBJECT : **REQUEST OF MARINDUQUE STATE COLLEGE – EXTRAMURAL STUDY CENTER (MSC-ESC) FOR A FUNDING ASSISTANCE TO ESTABLISH A BAMBOO NURSERY ON ITS PROPERTY WITH THE AMOUNT OF ₱117,400.00**

DATE : November 17, 2021

This refers to the letter of Deputy Minority Leader Argel Joseph T. Cabatbat of the Magsasaka Party-List dated 04 November 2021, endorsing the request of Marinduque State College-Extramural Study Center (MSC-ESC) for a funding assistance to establish a bamboo (B. Blumeana) nursery on its property.

As stated by the Minority Leader, the people of Mogpog, Marinduque, similar to other rural areas in the country are experiencing the impacts of the pandemic through reduced income and unemployment. The MSC-ESC hopes to create sustainable livelihood opportunities for the residents of the surrounding communities through the bamboo nursery. The enterprise will also boost the local economy and encourage the communities to protect and care for natural resources.

Please find the attached detailed project proposal submitted by the MSC-ESC for your reference and consideration.

For your appropriate action. Thank you.

ANGELITO V. FONTANILLA

Cc: **The PENR Officer**
PENRO Marinduque
Boac, Marinduque

Office of Representative
ARGEL JOSEPH T. CABATBAT
MAGSASAKA PARTY-LIST
DEPUTY MINORITY LEADER

04 November 2021

ROY A. CIMATU
Secretary
Department of Environment and Natural Resources
Visayas Avenue, Diliman
Quezon City

Dear **Secretary Cimatu**:

This is to respectfully endorse the request of Marinduque State College – Extramural Study Center (MSC-ESC) for a **Php 117,400.00 funding assistance** to establish a **bamboo (B. blumeana) nursery** on their property.

Similar to other rural areas in the country, the people of Mogpog, Marinduque are experiencing the impacts of the pandemic through reduced income and unemployment. The MSC-ESC hopes to create sustainable livelihood opportunities for the residents of the surrounding communities through the bamboo nursery. Moreover, the enterprise will help boost the local economy and encourage the communities to protect and care for natural resources.

We have attached the detailed project proposal submitted by the MSC-ESC for your reference and consideration.

For questions and clarifications, please do not hesitate to contact Ms. Rich delos Santos at 0917-770-3835, or you may call any of our office numbers below and write to us via email address *magsasaka.partylist@gmail.com*.

Thank you.

Sincerely yours,

ROOM 605, SOUTH WING, HOUSE OF REPRESENTATIVES, CONSTITUTION HILLS, QUEZON CITY 1126
☎ +632 8365 2629 ★ +632 426 2518 ★ +632 931 6447 ★ +632 931 5001 LOCAL 7303
MAGSASAKA.PARTYLIST@GMAIL.COM

34 MATIYAGA ST., BRGY. PINYAHAN, Q.C. ☎ +632 7900 7327
CENTRAL.FIELDOFFICE@MAGSASAKA.PH

Republic of the Philippines
MARINDUQUE STATE COLLEGE
Extramural Study Center
Brgy. Capayang, Mogpog, Mainduque

Satellite Campuses:
MSC Boac (Brgy. Tanza)
MSC Sta. Cruz (Brgys. Matalaba & Pag-asa)
MSC Torrijos (Brgy. Poctoy)
MSC Gasan (Brgy. Banuyo)

October 5, 2021

HON. ARGEL JOSEPH T. CABATBAT
Magsasaka Partylist Representative
Room 605 South Wing Building,
House of Representatives,
Constitution Hills, Quezon City

Sir

Greetings!

Marinduque State College - Extramural Study Center is a five-hectare property donated by Consolidated Mines Inc. thru Municipality of Mogpog to the Marinduque State College located at Barangay Capayang, Mogpog Marinduque. It was established in 2019 with the purpose as the extended campus of MSC at the town of Mogpog and to enhance the much-needed accessibility of quality education by its citizens most especially the youth, and provide them opportunities to pursue higher education.

With the present impact of the pandemic COVID-19 on socioeconomic stability, particularly in rural regions, there is a need to provide alternatives for producing income. Related thereto, MSC-ESC come up in the idea to establish a Bamboo Blumeana Nursery in the one (1) hectare land with in the area of the Center with the purpose of creating sustainable livelihoods for many members of the community and bring them increased prosperity in Brgy. Capayang Mogpog. The purpose of this is to develop an effective and efficient raw material supply chain by delivering an appropriate supply of planting material from the nursery.

In line to this, we would like to request on behalf of MSC-Capayang Extramural Study Center from your good office and to the Association Offices our plea unding assistance for nursery equipment and planting materials on the establishment of the said nursery.

We look forward to your favorable consideration and approval.

Attached please find the draft proposal.

Thank you and more power.

Very truly yours,

GERALD G. GUTIERREZ, DBA
Center Administrator, MSC-ESC

Republic of the Philippines
MARINDUQUE STATE COLLEGE
Extramural Study Center
Brgy. Capayang, Mogpog, Mainduque

Satellite Campuses:
MSC Boac (Brgy. Tanza)
MSC Sta. Cruz (Brgys. Matalaba & Pag-asa)
MSC Torrijos (Brgy. Poctoy)
MSC Gasan (Brgy. Banuyo)

A PROJECT PROPOSAL REQUESTING FINANCIAL FUNDING AND PARTNERSHIP FOR THE PURPOSE OF ESTABLISHING BAMBOO BLUMEANA NURSERY IN MARINDUQUE STATE COLLEGE-EXTRAMURAL STUDY CENTER IN BRGY. CAPAYANG, MOGPOG, MARINDUQUE

Title: BAMBOO BLUMEANA NURSERY
Proponent: MSC-EXTRAMURAL STUDY CENTER
Location: BRGY. CAPAYANG, MOGPOG

Project Description

Bamboo blumeana is native to Indonesia, Malaysia, Thailand, Vietnam, China, and the Philippines. In the Philippines, it was probably introduced in prehistoric times and can be found throughout the settled areas at low and medium altitudes. The culms are used for construction, basketry (baskets are very popular), furniture, parquets, concrete reinforcements, kitchen utensils, chopsticks, hats, and toys. It is often planted along watercourses to prevent soil erosion and to mark boundaries.

In the culms of B. blumeana the number of fibrovascular bundles increases from 2.37/mm2in the butt to 3.30/mm1 in the apex. The fiber dimensions are length 1.95-2.56 mm, diameter 15-20 µm, lumen diameter 4-9µm, wall thickness 5-7µm. On average, the weight of a green culm is 32 kg and its branches 7 kg, its leaves 1.5 kg, and a culm has 65 internodes and 30 branches. At a moisture content of 94.5% culms have a density of 1000 kg/m3, at about 15% the density is 500 kilograms. Shrinkage of culms at seasoning from green to oven-dry condition is about 8% in diameter and 13% in wall thickness.

Densely tufted, sympodial bamboo, with spiny basal branches forming a densely interlaced thicket to 2-3 m high. Culm erect, 15-25 m tall, up to about 20 cm in diameter, wall 0.5-3 cm thick; internodes usually hollow, 25-60 cm long, glabrous, green. Branches arising from nearly all nodes bearing stout straight or curved spines in groups of (1-)3(-5) (the central one usually larger and longer than the others). Planted culm cuttings at first send up thin shoots and culms are produced only after about 3 years. A mature clump may develop about 30 shoots per year of which only about one-third to one-fourth reaches maturity. B. blumeana much resembles B. bamboos (L.) Voss, but can easily be distinguished from each other by their culm sheaths.

B. blumeana grows well along river banks, hill slopes, and freshwater creeks and tolerates flooding. Propagation by culm cuttings is most common. Application of growth

hormones, e.g., 200-600 ppmα-naphthalene acetic acid (NAA), gives a better rooting rate and longer roots. Planting is preferably done at the beginning of the rainy season.

Bamboo shoots emerge during the rainy season and can be harvested for food after 7-15 days. In B. blumeana plantations, the harvesting of culms may start 5 years after planting. Harvested culms are liable to attack by fungi (brown, white, and soft rot) and especially by insects (beetles, termites). Managed (cleaned) clumps produce an average of 8 culms per clump per year (800-1200/ha) and unmanaged clumps only 5 (500-750/ha). Standing crop production (dry weight) is estimated at 143 t/ha.

Traditional treatment of bamboo culms after harvesting is to soak them for about 2 months in running or brackish water before drying. Fresh harvested young shoots are washed carefully, sliced and boiled before they are sold in local markets. Air drying (in sheds) takes about 2-4 months, kiln drying 1-2 weeks, depending on required moisture content and drying conditions. To improve B. blumeana as a crop plant it is recommended to collect germplasm from all areas where it grows or is cultivated.

MSC-Capayang Extramural Study Center is a five-hectare property donated by Consolidated Mines Inc. thru Municipality of Mogpog to the Marinduque State College located at Barangay Capayang, Mogpog Marinduque. It was established in 2019 with the purpose as the extended campus of MSC at the town of Mogpog and to enhance the much-needed accessibility of quality education by its citizens most especially the youth, and provide them opportunities to pursue higher education.

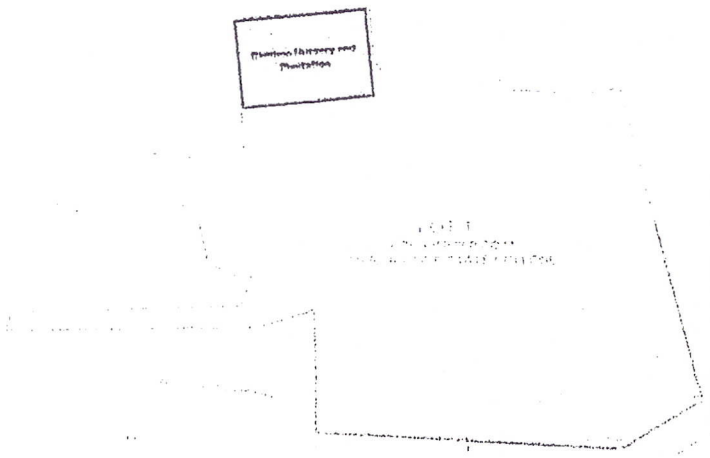
With the present impact of the pandemic COVID-19 on socioeconomic stability, particularly in rural regions, there is a need to provide alternatives for producing income. Related thereto, MSC-ESC come up in the idea to establish a Bamboo Blumeana Nursery in the one (1) hectare land with in the area of the Center with the purpose of creating sustainable livelihoods for many members of the community and bring them increased prosperity in Brgy. Capayang Mogpog.

Objectives of the Project

The goal of this project is to develop an effective and efficient raw material supply chain by delivering an appropriate 200 supply per year of planting material from the nursery to the organizations and individuals who are willing to undergo on tree planting activity. It is expected that the advocacy leadership will encourage members to continually contribute to existing bamboo knowledge and provide useful information to people in the community.

Bamboo Nursery Establishment Location

Frequently, the nursery location is chosen in close proximity to the headquarters of the subordinate employees. The Marinduque State College-Extramural Study Center provide an idle piece of land total to one (1) hectare. This area will be the nursery site, and all activities pertaining to nursery propagation and development will take place. The area is also suitable to nursey young bamboo propagules and it has a natural source of water available.



Project Activities

The Bamboo Nursery's main activities to achieve its goals are as follows:

1. Information campaign and organizing source of water, farmers, learning institutions, and government agencies such as DENR for skill training, and upland farmers to raise awareness of the usefulness of bamboo as an ecological balancer and define the true meaning of sustainable livelihood.
2. Create a nursery site and amenities that comprise
   a. one (1) hectare of land
   b. Invest in nursery equipment and planting materials.
   c. Construction of a greenhouse
3. Formalize connections with LGUs, DENR, the Ecologist Group, and the private sector.
4. To successfully manage the activities. explore possible links with the DTI, DA, DOST-PCCARD, Bamboo Societies, MSC for R&D, and other government agencies, NGOs, and private consultancy firms.

Financial Plan

The estimated total project cost is **ONE HUNDRED SEVENTEEN THOUSAND FOUR HUNDRED PESOS**, the break down to viz:

Requested fund:

Description		Unit Cost
Bamboo culms (200 pcs)	100.00	20, 000.00
Planting Materials:		
• Plastic bags	1.00	200.00
• Shovel	600.00	1,200.00
• Heavy Duty Sickle	400.00	800.00
• Garden Hose Set with Nozzle Spray	1,200.00	1,200.00
Labor		
• 2 Contract Labor	350.00/day (20 days/mo for 6 months)	84,000.00
Liquidity reserve		10,000.00
TOTAL COST		117, 400.00

Project Evaluation

The project will be assessed using a results-based management approach to assess the effect (over the next five years), outcome (after three years), and output (annual evaluation on the attainment of objectives and target indicators).

The format of the evaluation instrument is as follows:

a. Gaps, Issues, and Problems in Results-Output Results-Outcome Results-Impact
b. Activities
c. Quality Quantity Risk Management
d. Tasks and Goals
e. Coverage of an Area
f. Personnel/s
g. Development