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MEMORANDUM

FOR : The NCI-SRD Policy Advocacy Component Working Group (PA
CWG) Focals

Biodiversity Management Bureau
Ecosystems Research and Development Bureau
Forest Management Bureau

The Regional Executive Directors
Regions 1, 2, 3, 4A, 4B, 5, 6, 7, 8, 9 10 11
CAR, NCR, CARAGA

FROM : The OIC Director, Policy and Planning Service and
Chair, NCI-SRD PACWG

SUBJECT : **Letter of the Philippine Bamboo Industry Development Council
(PBIDC) re: Assistance for the Conduct of Inventory of Bamboo
Clumps in the LGUs.**

DATE : 30 APR 2021

This pertains to the letter of Mr. Rene "Butch" E. Madarang, Executive Director, Philippine Bamboo Industry Development Council dated March 25, 2021 addressed to the Director, BSWM and National Focal, NCI, regarding their plans to plant and promote the use of bamboo in the convergence areas.

As part of their mandate, the PBIDC formed partnership with NCI-SRD to become instrumental in their effort of revitalizing the bamboo industry. As part of its initiative PBIDC is requesting the NCI and its convenors to assist them in conducting an inventory of existing bamboo clumps in the LGUs thru NCI-SRD member agencies municipal agricultural and environment natural resources officers. The data to be gathered will be used in mapping out a sustainable bamboo live program in the barangays and a concrete basis for the government to impose environmental tax.

In this regard, we are referring to you the attached letter and the briefer of the proposed inventory for your reference and guidance. Please coordinate with the said Office on whatever assistance you may extend to them.

For your appropriate action.


MELINDA C. CAPISTRANO

**PHILIPPINE BAMBOO INDUSTRY
DEVELOPMENT COUNCIL**



March 25, 2021

HON. SONIA M. SALGUERO

Director
Bureau of Soils and Water Management
National Focal Person
National Convergence Initiative for Sustainable Rural Development
Department of Agriculture

Dear Director Salguero,

We would like to thank your kind office for initiating a one-on-one consultative meeting with the Philippine Bamboo Industry Development Council (PBIDC) last February 17 regarding your plans to plant and promote the use of bamboo in the convergence areas. The Council is now moving forward in its mandate to develop the bamboo industry where the National Convergence Initiative for Sustainable Rural Development (NCI-SRD), through its newly-formed partnership, will become instrumental in this renewed effort of revitalizing the bamboo industry.

In this connection, we would like to respectfully request the NCI-SRD and its convenors to assist the PBIDC in conducting an inventory of existing bamboo clumps in the Local Government Units, such as having the municipal agricultural and the environment and natural resources officers to assist the LGUs.

Also attached in this letter is a proposed national inventory of bamboo resources and sample guide questions for easy data gathering with revisions from the DILG Bureau of Local Development. This data will be greatly helpful in mapping out a sustainable bamboo livelihood program in the barangays and a concrete basis for imposing environmental tax.

We are looking forward to your favorable action on our request. Thank you and God Bless.

Very truly yours,

RENE "BUTCH" E. MADARANG
Executive Director
Philippine Bamboo Industry Development Council

CC: USEC. ATTY. JONAS R. LEONES
DENR Undersecretary for Policy, Planning and International Affairs

#KawayanNaman

PROPOSED NATIONAL INVENTORY OF BAMBOO RESOURCES IN THE PHILIPPINES¹

Rationale

- Available data suggest that there exist incomplete and likely unreliable estimates of bamboo resources and on the number, type, size and raw material requirements of bamboo-using industries/bamboo users in the country;
- The bamboo inventory will statistically validate bamboo resource statistics on the number, type, products and requirements of the bamboo-based industries; and
- Valid statistics on bamboo resources and bamboo-based industries would provide the necessary data to guide investors in bamboo manufacturing enterprises as well as bamboo plantation developers.

Methodology

The country shall be divided into two (2) groups of regions: bamboo-rich (BR) and bamboo poor (BP) regions.

Sampling population: barangays in the six priority regions or whole country, as the case may be.

Priority regions: In case there is not enough budget to do the national bamboo inventory in one sweep, the following regions shall have priority over the other regions: CAR, 1, 2, 5, 6, and 10. These six priority regions are considered “bamboo-rich”; as they include 32 provinces (Batanes excluded), 629 municipalities and thousands of barangays.

Bamboo resources inventory

Sampling design: multi stage stratified random sampling

Sampling stages

- **Stage 1:** random sample 40-60 municipalities/cities from the 629 municipalities/cities in the 32 provinces of the 6 BR regions
- **Stage 2:** random sample of 130-180 barangays from the 40-60 sample municipalities/cities

The strata

- **Stratum 1:** BR barangays in BR municipalities/cities in BR provinces
- **Stratum 2:** BR barangays in BP municipalities/cities in BR provinces; BR barangays in BR municipalities/cities in BP provinces; BR barangays in BP municipalities/cities in BP provinces

¹ Department of Trade and Industry Regional Operations Group (2016). The Philippine Bamboo Industry Roadmap. pp.191-192.

- **Stratum 3:** all other barangays e.g., BP barangays in BR municipalities/cities in BR provinces; BP barangays in BP municipalities/cities in BR provinces; BP barangays in BR municipalities/cities in BP provinces; BR barangays in BP municipalities/cities in BP provinces

Sample size per stratum

- **Stratum 1:** 50-60 barangays to be selected at random
- **Stratum 2:** 40-60 barangays to be selected at random
- **Stratum 3:** 40-60 barangays to be selected at random

Sampling error/precision of estimates: The inventory shall be designed and implemented to attain a sampling error of not more than 5% for the whole inventory and about 10-15% per stratum. In the case the desired precisions of estimates are not attained, additional sample barangays will be selected at random to achieve the desired precisions subject to time and budget constraints.

Statistics to be generated:

1. Ha of bamboo per ha of barangay area (BA)
2. No. of clumps per ha of BA
3. No. of poles per ha of BA

The samples of barangays, clumps and poles; classifying the provinces, municipalities/cities and barangays into BR or BP: The provinces, municipalities/cities in each province and barangays in each region shall be classified as BR or BP. This will be done through a questionnaire with the DENR/DTI/Association of Bamboo Planters or Manufacturers as primary respondents.

Note: A province, municipality, city, or barangay shall be classified as BR if there are visible, known or significant bamboo resources within its jurisdiction.

The results shall be used to draw the stratified random sample of barangays to be visited/inventoried. The sample barangays, 130-180 of them for the three strata, shall be drawn from about 40-60 municipalities and cities also randomly drawn from the 629 municipalities and cities in the 32 provinces. For each sample barangay, the area of bamboo stands shall be counted, and 31-40 clumps shall be drawn at random for "pole-count" enumeration.

SAMPLE GUIDE QUESTIONS FOR PROPERTY OWNERS WITH EXISTING BAMBOO PLANTS

1. Barangay:
2. Municipality/City:
3. Province:
4. Region:
5. Name of Property Owner (Pangalan ng may-ari ng lupain):
6. Number of bamboo clumps present in the property (Ilan ang nakikita mong mga kumpol ng kawayan sa iyong lupain?):



Itsurang isang bamboo clump:

7. How many poles are there for one clump? (Ilang ang poste ng kawayan ang makikita sa isang kumpol?)
8. What is the market price for each bamboo pole? (Magkano ang benta o bili sa bawat piraso o poste ng kawayan?)
9. What are the species of the bamboo plant present in the property? (Anong klaseng kawayan ang nakatanim sa inyong bakuran o lupain?)

Note: We could ask for the local name or common name of the bamboo plant. Bamboo experts that are members of the council could identify the scientific names of the bamboo from its local name.

10. Where and how is your bamboo plant used? (Saan at anu-ano ang ginagawang gamit sa kawayan?)

#KawayanNaman