

Republic of the Philippines

Department of Environment and Natural Resources

MIMAROPA Region

Provincial Environment and Natural Resources Office Puerto Princesa City, Palawan (048) 433-5638

E-mail: penropalawan@denr.gov.ph

January 19, 2023

MEMORANDUM

.

FOR

The Regional Executive Director

DENR- MIMAROPA Region 1515 L&S Bldg., Roxas Blvd.

Ermita, Manila

THRU

The OIC, Assistant Regional Director for Technical Services

FROM

The Provincial Environment And

Natural Resources Officer

SUBJECT

ANNUAL REPORT ON THE MAINTENANCE AND PROTECTION

OF SEED PRODUCTION AREA / INDIVIDUAL PLUS TRESS

(SPA/IPTs) WITHIN CENRO PUERTO PRINCESA CITY

Respectfully forwarding the Annual Report of the Maintenance and Protection of Seed Production Area (SPA)/Individual Plus Tress (IPTs) located at the Palawan Experimental Forest in Bgy. Bagong Bayan, Puerto Princesa City.

The Seed Production Area (SPA), with an area of 167.47 hectares, was established in October 2013. The subject CENRO collected seventeen thousand five hundred five (17,505) seeds from nineteen (19) IPTs of seven species of forest trees. For the CY 2022, the subject CENRO Puerto Princesa compound targeted the production of IPT seedlings of four thousand two hundred (4,200).

Please be informed that as an initiative of CENRO Puerto Princesa City, the Palawan Experimental Forest was surveyed to produce a SPA/IPT map which consists of 800 IPTs that were maintained and protected.

For information and record.

FELIZARDO B. CAYATOC

DENR-PALAWAN
PENRO-RECORDS

RELEASED

By
Date 24 JAN 2023 N 2023 N

NGP MEMO: DTF: 2022-11672 RRA



Republic of the Philippine Department of Environment and Natural Resources MIMAROPA Region

Community Environment and Natural Resources Office PUERTO PRINCESA

South National Highway, Sta. Monica, Puerto Princesa City, Palawan E-mail: cenropuertoprincesa@denr.gov.ph

December 22, 2022

DENR PENRO PALAWAN REGORDS

MEMORANDUM

FOR :

The Provincial Environment and

Natural Resources Officer

Sta. Monica, Puerto Princesa City

FROM

The OIC - Community Environment and

Natural Resources Officer

SUBJECT

ANNUAL REPORT ON THE MAINTENANCE AND

PROTECTION OF SEED PRODUCTION AREA/INDIVIDUAL PLUS TREES (SPA/IPTs) WITHIN

CENRO PUERTO PRINCESA

Forwaded is the Annual Report on the Maintenance and Protection of Seed Production Area (SPA)/Individual Plus Trees (SPA/IPTs) located at the Palawan Experimental Forest in Barangay Bagong Bayan, Puerto Princesa City.

The SPA at the Palawan Experimental Forest was established in October 2013 and covered an area of 167.47 hectares. The SPA/IPTs consisted of eight hundred (800) Individual Plus Trees, belonging to twenty-three (23).

A total of 15,005 seeds were collected from nineteen (19) IPTs consisted of seven (7) species of forest trees namely: Batino, Lamio, Malakalumpit, Kalantas, Alalud, Ipil and Pangi. The office has submitted 6,320 seedlings to Ecosystems Research and Development Bureau (ERBD) through Southern Luzon Forest Tree Seed Center (SLFTSC), Urban & Biodiversity Research, Development & Extension Center (UBRDEC).

Among the activities accomplished from January to December CY 2022: 1. Maintenance and Protection Activities: Patrolling within the area with the assistance of hired one (1) Science Research Technician and two (2) Laborers as Forest Guards assigned at the Palawan Experimental Forest; 2. Underbrushing at the immediate vicinity of eight hundred (800) Individual Plus Trees (IPTs); 3. Phenological Observation; and Maintenance of nursery inside the SPA; Repainting of IPTs.

For CY 2022, the office has a target of seedling Production of IPTs Seeds at the CENRO Puerto Princesa compound with a total of four thousand two hundred (4,200) seedlings produced.

As an initiative of the office, the 800 IPTs maintained and protected within the SPA at the Palawan Experimental Forest were surveyed in order to produce a map of the SPA/IPTs. The relocation survey was undertaken by the SPA/IPTs hired personnel. A map showing the location of 800 IPTs was produced. (Copy of map attached)

For information and record.

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ESA

NO 13-13-22

DATE 12-23-22

BY AN

PEDRO A. VELASCO



Republic of the Philippines Department of Environment and Natural Resources Region IV - MIMAROPA

COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE PUERTO PRINCESA

South National Highway, Sta. Monica, Puerto Princesa City, Palawan E-mail: cenropuertoprincesa@denr.gov.ph

ANNUAL REPORT

MAINTENANCE AND PROTECTION OF SEED PRODUCTION AREA/INDIVIDUAL PLUS TREES (SPA/IPTs) January to December CY 2022

I. INTRODUCTION

The Seed Production Area (SPA): Individual Plus Trees (SPA/IPTs) located at the Palawan Experimental Forest in Barangay Bagong Bayan, Puerto Princesa City was established in October 2013 and covered an area of 167.47 hectares. The SPA/IPTs consisted of eight hundred (800) Individual Plus Trees, belonging to twenty-one (21) species upon establishment. But it was later realized that some of the identified species as White Nato (*Pouteria macrantha*) were actually identified as Alalud (*Planchonella foxworthyl*), an endemic species belonging to the same Family Sapotacaea like White Nato.

With the findings, the number of species became twenty-two (22). To date, a total of twenty-three (23) species (after some IPTs had been replaced due to damage caused by typhoon) comprised the SPA/IPTs, as shown in the following Table:

Table 1. IPTs within Palawan Experimental Forest

	Tree Species	No. of Trees	Scientific Name	Family Name
1.	Agoho del monte	10	Casuarina rumphiana	Casuarinaceae
2.	Alalud	9	Planchonella foxworthyi	Sapotaceae
3.	Amugis	41	Koordersiodendron pinnatum	Anacardiaceae
4	Batino	27	Alstonia macrophylla	Apocynaceae
5.	Dita	9	Alstonia scholaris	Apocynaceae
6.	Duguan panayong	37	Myristica Umbellata	Myristicaceae
7.	Gatasan layugan	20	Garcinia polyantha	Guttiferae
8.	Ilang-ilang	18	Cananga odorata	Annonaceae
9.	Ipil	214	Intsia bijuga	Caesalpiniaceae
10.	Kalantas	6	Toona calantas	Meliaceae
11.	Kamagong	19	Diospyros philippinensis	Ebenaceae
12.	Kupang	13	Parkiia timoriana	Mimosaceae
13.	Lamio	13	Dracontomelon edule	Anacardiaceae
14.	Lumarao	61	Swintinia foxworthyi	Anarcardiaceae
15.	Malakalumpit	9	Terminalia calamansanai	Combretaceae
16.	Malugai	24	Pometia pinnata	Sapindaceae
17.	Nato	54	Palaquium luzoniense	Sapotaceae
18.	Pagsahingin	132	Canarium asperum	Burseraceae
19.	Panau	3	Dipterocarpus gracilis	Dipterocarpaceae
20.	Pangi	6	Pangium edule	Flaucourticeae
21.	Small-leaf malugai	12	Pometia pinnata forma repanda	Sapindaceae
22.	Talisai gubat	31	Terminalia foetidissima	Combretaceae

II. SEED COLLECTION

Summary of Seed Collection from January to December CY 2022 at the Seed Production Area located at Palawan Experimental Forest, Barangay Bagong Bayan, Puerto Princesa City is shown in the table below:

Table 2. Summary of Seed Collection from January to December CY 2022

			Seed Collection							
IPT Number	Common Name	Scientific Name	Date	Counts	kg					
IPT-4B-058-PEF	Batino	Alstonia macrophylla	February 25, 2022	600	0.02					
IPT-4B-234-PEF	Lamio	Dracontomelon edule	March 2, 2022	180	0.4					
IPT-4B-058-PEF	Batino	Alstonia macrophylla	April 22,2022	620	0.01					
IPT-4B-240-PEF	Lamio	Dracontomelon edule	May 25, 2022	2,000	3.8					
IPT-4B-342-PEF	Malakalumpit	Terminalia calamansanai	June 13, 2022	350	0.4					
IPT-4B-690-PEF	Kalantas	Toona calantas	June 15, 2022	560	0.0002					
IPT-4B-690-PEF	Kalantas	Toona calantas	June 16, 2022	650	0.0002					
IPT-4B-432-PEF	Kalantas	Toona calantas	June 16, 2022	2400	0.1					
IPT-4B-687-PEF	Kalantas	Toona calantas	June 16, 2022	500	0.0001					
IPT-4B-690-PEF	Kalantas	Toona calantas	June 16, 2022	3,000	0.2					
IPT-4B-432-PEF	Kalantas	Toona calantas	June 16, 2022	600	0.001					
IPT-4B-260-PEF	Alalud	Planchonella foxworthyi	July 7, 2022	320	0.5					
IPT-4B-691-PEF	Alalud	Planchonella foxworthyi	July 7, 2022	1285	1.8					
IPT-4B-690-PEF	Kalantas	Toona calantas	July 7, 2022	2700	0.2					
IPT-4B-806-PEF	Alalud	Planchonella foxworthyi	August 12, 2022	550	0.6					
IPT-4B-228-PEF	Ipil	Instia bijuga	August 23, 2022	510	4					
IPT-4B-738-PEF	Ipil	Instia bijuga	August 25, 2022	300	2.1					
IPT-4B-010-PEF	Pangi	Panguim edule	October 4, 2022	160	2.6					
IPT-841-PEF	Alalud	Planchonella foxworthyi	November 29, 2022	180	0.2					
IPT-841-PEF	Alalud	Planchonella foxworthyi	December 8, 2022	40	0.01					

A total of 17,505 seeds were collected from nineteen (19) IPTs consisted of seven (7) species of forest trees namely: Batino, Lamio, Malakalumpit, Kalantas, Alalud, Ipil and Pangi. For CY 202, the office has submitted a total of 6,320 seeds collected from IPTs to Ecosystems Research and Development Bureau (ERBD) through Southern Luzon Forest Tree Seed Center (SLFTSC) - Urban & Biodiversity Research, Development & Extension Center (UBRDEC).

A. Seeds Collection from IPTs within SPA located in Barangay Bagong Bayan, Puerto Princesa City



III. PHENOLOGY CALENDAR

Through the observation of the phenological characteristic of IPTs, it was noted that there are individual differences among mother trees of the same species, some bear mother flowers earlier than expected while others flower at a later time. For Ipil (Intsia bijuga), some mother trees started flowering in April and seed were collected in August. There were also mother trees of Duguan Pinayung (Myristica umbellate) started flowering in June. Prior to the establishment of the Seed Production Area, flowering of Ipil used to start in the January and dropping of mature fruits was in May. Climate change could have affected the phenology of mother trees.

Based on observation, many of the species were observed to bear flowers and fruits. Although flowers of some mother trees did not develop into fruits due to strong wind and/or rainfall, the flowering of the mother trees had been given a hint for the observers on what to expect on the following year. For this 2022, Batino and Pagsahingin started flowering in August while Batino and Duguan pinayung also had flowers in September. Gatasan layugan and Talisai gubat started flowering in October. Table 3 shows the phenological calendar CY 2022.

A. Observation of Flowering and Fruits of Individuals Plus Trees (IPTs) at the SPA

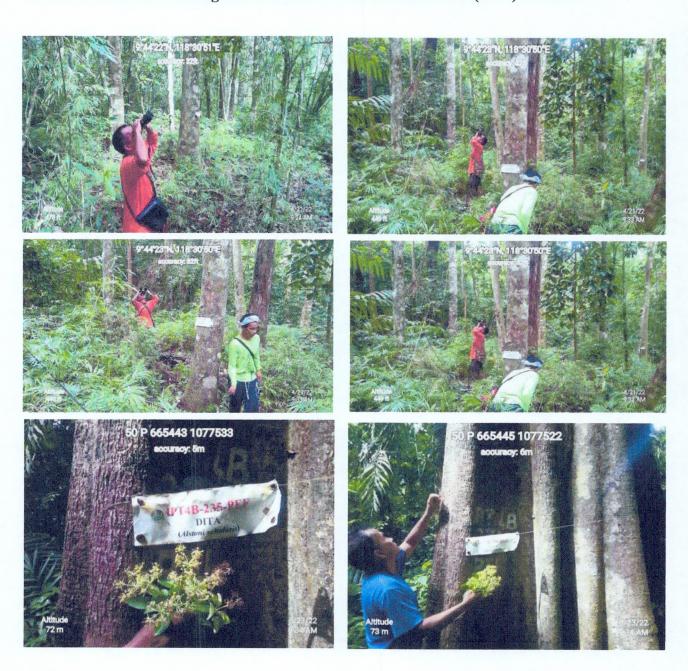


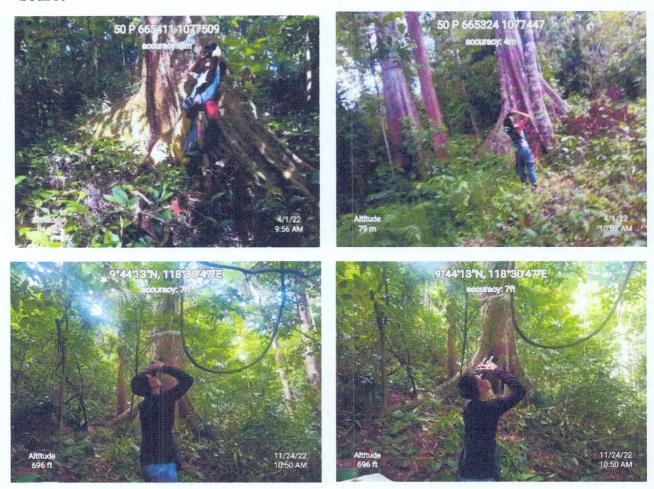
Table 3. Summary of Phenlogical Calendar CY 2022

The second secon	TPT No / Code	Common Mame	Coientific Name				Σ	Months, CY	Y 2022					
rocations of Seed Sources	II I IVO./ COUC	COMMINION INTERIOR	Scientific ivalife	Jan Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(1)	(2)	(3)	(4)					(5)						
Bagong Bayan, PPC, Palawan	IPT4B-003-PEF	IpiI	Intsia bijuga											
Bagong Bayan, PPC, Palawan	IPT4B-005-PEF	liqI	Intsia bijuga											
Bagong Bayan, PPC, Palawan	IPT4B-010-PEF	Pangi	Pangium edule											
Bagong Bayan, PPC, Palawan	IPT4B-022-PEF	Pangi	Pangium edule											
Bagong Bayan, PPC, Palawan	IPT4B-042-PEF	Batino	Alstonia macrophylla											
Bagong Bayan, PPC, Palawan	IPT4B-050-PEF	Batino	Alstonia macrophylla											
Bagong Bayan, PPC, Palawan	IPT4B-058-PEF	Batino	Alstonia macrophylla											
Bagong Bayan, PPC, Palawan	IPT4B-106-PEF	Pangi	Pangium edule											
Bagong Bayan, PPC, Palawan	IPT4B-107-PEF	Ilang-ilang	Cananga odorata											
Bagong Bayan, PPC, Palawan	IPT4B-110-PEF	Amugis	Koordesiodendron pinnatum											
Bagong Bayan, PPC, Palawan	IPT4B-121-PEF	lpil	Intsia bijuga											
Bagong Bayan, PPC, Palawan	IPT4B-147-PEF	lidI	Intsia bijuga											
Bagong Bayan, PPC, Palawan	IPT4B-221-PEF	lpil	Intsia bijuga											
Bagong Bayan, PPC, Palawan	IPT4B-228-PEF	Ipil	Intsia bijuga											
Bagong Bayan, PPC, Palawan	IPT4B-229-PEF	Ipil	Intsia bijuga											
Bagong Bayan, PPC, Palawan	IPT4B-234-PEF	Lamio	Dracontomelon edule											
Bagong Bayan, PPC, Palawan	IPT4B-235-PEF	Dita	Alstoni Scholaris											
Bagong Bayan, PPC, Palawan	IPT4B-240-PEF	Lamio	Dracontomelon edule											
Bagong Bayan, PPC, Palawan	IPT4B-241-PEF	Nato	Palaquium luzoniense											
Bagong Bayan, PPC, Palawan	IPT4B-242-PEF	Amugis	Koordesiodendron pinnatum											
Bagong Bayan, PPC, Palawan	IPT4B-243-PEF	Nato	Palaquium luzoniense											
Bagong Bayan, PPC, Palawan	IPT4B-244-PEF	Pagsahingin	Canarium asperum											
Bagong Bayan, PPC, Palawan	IPT4B-245-PEF	Lamio	Dracontomelon edule											
Bagong Bayan, PPC, Palawan	IPT4B-246-PEF	Nato	Palaguium luzoniense											
Bagong Bayan, PPC, Palawan	IPT4B-250-PEF	Batino	Alstonia macrophylla											
Bagong Bayan, PPC, Palawan	IPT4B-254-PEF	Nato	Palaquium luzoniense											
Bagong Bayan, PPC, Palawan	IPT4B-257-PEF	White Nato	Poutera Macranta											
Bagong Bayan, PPC, Palawan	IPT4B-258-PEF	Batino	Alstonia macrophylla											
Bagong Bayan, PPC, Palawan	IPT4B-259-PEF	Pagsahingin	Canarium asperum											
Bagong Bayan, PPC, Palawan	IPT4B-260-PEF	Alalud	Poutera macranta											
Bagong Bayan, PPC, Palawan	IPT4B-276-PEF	Nato	Palaquium luzoniense											
Bagong Bayan, PPC, Palawan	IPT4B-313-PEF	Alalud	Poutera Macranta										_	
Bagong Bayan, PPC, Palawan	IPT4B-342-PEF	Amugis	Koordesiodendron Pinnatum											
Bagong Bayan, PPC, Palawan	IPT4B-354-PEF	White Nato	Poutera Macranta											
Bagong Bayan, PPC, Palawan	IPT4B-355-PEF	Pagsahingin	Canarium asperum											
Bagong Bayan PPC Palawan	IPT4R-356-PFF	White Nato	Poutera Macranta											

																								400		
Palaguium luzoniense	Alstonia macrophylla	Poutera macranta	Intsia bijuga	Koordesiodendron pinnatum	Intsia bijuga	Intsia bijuga	Poutera macranta	Swintonia foxworthyi	Terminalia foetidissima	Koordesiodendron pinnatum	Intsia bijuga	Poutera macranta	Planchonella foxworthyi	Diospyros philippinensis	Koordesiodendron pinnatum	Intsia bijuga	Poutera macranta	Alstonia macrophylla	Casuarina rumphiana	Intsia bijuga	Intsia bijuga	Intsia bijuga	Toona Calantas	Palaguium luzoniense	Planchonella foxworthyi	
Nato	Batino	White Nato	lpil	Amugis	lidI	lpil	White Nato	Kamagong	Malakalumpit	lpil	lpil	White Nato	Alalud	Kamagong	Amugis	Ipil	White Nato	Batino	Agoho del monte	lidI	lidI	lidI	Kalantas	Nato	Alalud	
IPT4B-360-PEF	IPT4B-373-PEF	IPT4B-421-PEF	IPT4B-430-PEF	IPT4B-433-PEF	IPT4B-435-PEF	IPT4B-436-PEF	IPT4B-464-PEF	IPT4B-561-PEF	IPT4B-687-PEF	IPT4B-688-PEF	IPT4B-689-PEF	IPT4B-690-PEF	IPT4B-691-PEF	IPT4B-698-PEF	IPT4B-701-PEF	IPT4B-738-PEF	IPT4B-752-PEF	IPT4B-754-PEF	IPT4B-758-PEF	IPT4B-801-PEF	IPT4B-802-PEF	IPT4B-803-PEF	IPT4B-804-PEF	IPT4B-805-PEF	IPT4B-806-PEF	With leaf
Bagong Bayan, PPC, Palawan	Bagong Bayan, PPC, Palawan IPT4B-373-PEF	Bagong Bayan, PPC, Palawan IPT4B-701-PEF	Bagong Bayan, PPC, Palawan																							

With fruit developed With matured fruit ready for collection

Observation of flowering and fruits of Individuals Plus Trees (IPTs) at the Seed Source



B. Seedlings from IPTs Individual Plus Trees Donated to Philippine Coast Guard



Table 4. Summary of Donated Seedlings from IPT Seeds CY 2022

SPECIES	NO. OF SEEDLINGS	DONATED TO	DATE
Ipil	50	PMAJ. Aldrian P. Nangit	February 5, 2022
Nato	50	PMAJ. Aldrian P. Nangit	February 5, 2022
Kamagong	100	Al Egeno	May 17, 2022
Pangi	100	Anna Jane S. Deguzman	June 24, 2022
Kamagong	73	Shendyleen Aquino	July 1, 2022
Nato	100	PSMS Marlon P. Basaya	August 8, 2022
TOTAL	473		

C. Relocation Survey and Replacement of 800 Individual Plus Trees (IPTs)



Table 5. Replacement of Dead/Damaged by Typhoon Odette Individual Plus Trees (IPTs)

IPTs Dead/Damaged of Typhoon Odette	IPTs replacement
IPT # 14 Malugai	IPT # 813 Alalud
IPT # 17 Malugai	IPT # 814 Malugai
IPT # 21 Pangi	IPT # 815 Amugis
IPT # 29 Nato	IPT # 816 Panau
IPT # 30 Malugai	IPT # 817 Amugis
IPT # 47 Ilang-ilang	IPT # 818 Amugis
IPT # 48 Ilang-ilang	IPT # 819 Pangi
IPT # 141 Ilang-ilang	IPT # 820 kalantas
IPT # 154 Ipil	IPT # 821 Amugis
IPT # 170 Ipil	IPT # 822 Ipil
IPT # 203 Ipil	IPT # 823 Amugis
IPT # 216 Ipil	IPT # 824 malugai
IPT # 262 Pagsahingin	IPT # 825 Malugai
IPT # 264 Batino	IPT # 826 Malugai
IPT # 265 Lamio	IPT # 827 Panau
IPT # 271 Pagsahingin	IPT # 828 Pagsahingin
IPT # 272 Ipil	IPT # 829 Ipil
IPT # 274 Amugis	IPT # 830 Lamio
IPT # 275 Ipil	IPT # 831Malugai
IPT # 284 Ipil	IPT # 832 Amugis
IPT # 303 Pagsahingin	IPT # 833 Amugis
IPT # 306 Pagsahingin	IPT # 834 Malugai
IPT # 405 Nato	IPT # 835 Amugis
IPT # 423 Pagsahingin	IPT # 836 kalantas
IPT # 424 Pagsahingin	IPT # 837 Amugis
IPT # 548 Agoho Del Monte	IPT # 838 Panau
IPT # 576 Dita	IPT # 839 Alalud
IPT # 593 Nato	IPT # 840 Malugai
IPT # 784 Lumarao	IPT # 841 Alalud
IPT # 800Nato	IPT # 842 Panau

D. Maintenance of Nursery at CENRO Puerto Princesa Compound and Seedling Production seeds collected from IPTs



E. Seedlings Produced from IPTs Seeds housed at the newly constructed Nursery at CENRO Puerto Princesa Compound





F. Seedlings Produced from IPTs Seeds housed at the newly constructed Nursery at CENRO Puerto Princesa Compound





G. Assistance to ERDB personnel in the conduct of validation of seed collection from the selected Individual Plus Trees (IPTs) inside the SPA









H. Assistance to DENR MIMAROPA Region - Planning Management Division personnel in the conduct of site visitation at the SPA/IPTs





IV. ACCOMPLISHMENT

Among the activities accomplished for the 1st Quarter to 4th Quarter CY 2022 (from January to December) are the following:

1. Maintenance and Protection Activities

The maintenance and protection activities includes the following:

- a. Patrolling within the area with the assistance of hired one (1) Science Research Technician and two (2) Laborers as Forest Guards assigned at the Palawan Experimental Forest;
- b. Under brushing at the immediate vicinity of eight hundred (800) Individual Plus Trees (IPTs);
- c. Phenological Observation; and
- d. Maintenance of nursery inside the SPA

2. Repainting of IPTs

Repainting of IPT codes conducted within the SPA.

3. Seedling Production of IPTs Seeds at the CENRO Puerto Princesa compound

A total of four thousand two hundred (4,200) seedlings from seeds collected in IPTs were produced at the nursery within the CENRO Puerto Princesa compound.

4. Relocation Survey of eight hundred (800) IPTs for mapping purposes

As an initiative of CENRO Puerto Princesa, OIC CENRO Pedro A. Velasco instructed the conduct of relocation survey of the 800 IPTs maintained and protected within the SPA at the Palawan Experimental Forest in order to produce a map of the SPA/IPTs. The activity was undertaken by the undersigned together with two (2) Forest Guards.

5. Preparation of Map of IPTs within the SPA

The undersigned assisted by the other NGP Unit personnel facilitated the inputting of data and attributes of surveyed Individual Plus Trees (IPTs) using Manifold Software.

A map showing the location of 800 IPTs was produced. (Copy of map attached)

Prepared by:

Reviewed by:

Science Research Technician

Noted by:

Sr. Ecosystems Management Specialist

Chief, Conservation and Development Section

II. SEED COLLECTION

Summary of Seed Collection from January to December CY 2022 at the Seed Production Area located at Palawan Experimental Forest, Barangay Bagong Bayan, Puerto Princesa City is shown in the table below:

Table 2. Summary of Seed Collection from January to December CY 2022

			Seed Collection							
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A total of 17,505 seeds were collected from nineteen (19) IPTs consisted of seven (7) species of forest trees namely: Batino, Lamio, Malakalumpit, Kalantas, Alalud, Ipil and Pangi. For CY 202, the office has submitted a total of 6,320 seeds collected from IPTs to Ecosystems Research and Development Bureau (ERBD) through Southern Luzon Forest Tree Seed Center (SLFTSC) - Urban & Biodiversity Research, Development & Extension Center (UBRDEC).

