

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

PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE

October 5, 2022

I INC MING

TI OUTGOING

MEMORANDUM

FOR

The Regional Executive Director

MIMAROPA Region

1515 L&S Bldg., Roxas Blvd.

Ermita, Manila

THRU

The ARD for Technical Services

FROM

The OIC, PENR Officer

Mamburao, Occidental Mindoro

SUBJECT

ENDORSEMENT OF THE ACTIVITY DESIGN FOR THE TRAINING ON THE DETECTION OF THE TAMARAW AND BLEEDING HEART PIGEON USING SCIENTIFIC AND INDIGENOUS TECHNIQUES IN SUPPORT OF THE BD COR PROJECT TO THE TAMARAW CONSERVATION PROGRAM

AND MT. CALAVITE WILDLIFE SANCTUARY

In line with the service and implementation of the *Integrated Approach in the Management of Major Biodiversity Corridors in the Philippines* (**BD Cor Project**), the undersigned endorses the submitted activity design for the "Training on the Detection of Tamaraw and Mindoro Bleeding Heart Pigeon in Protected Areas in Support of the Tamaraw Conservation Program (TCP) and Mt. Calavite Wildlife Sanctuary – Protected Area Management Office (MCWS-PAMO)". The activity finds packaging in Component 4 of the BD Cor Project, which entails "knowledge management, gender mainstreaming, learning, monitoring, and evaluation", in line with the 2022 Tamaraw Month Celebration.

The activity will be from October 19 to October 22, 2022 involving personnel from TCP, MCWS-PAMO, CENR Office in San Jose (as point personnel in the 2019 Tamaraw Survey in MCWS), and BD Cor Project from DENR; local government units in Paluan, Occidental Mindoro; and conservation partners. The latter shall provide presentations with the goal of capacitating DENR and LGU personnel, and indigenous communities with the various scientific methods, as well as, sharing local knowledge through a cultural night.

For information and approval.

ERNESTO E. TAÑADA

October 5, 2022

MEMORANDUM

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FOR

The OIC, PENR Officer

THRU

The In Charge, Technical Services Division

FROM

The Regional Landscape Planning Specialist

Corridor Project Management Unit Biodiversity Corridor Project

SUBJECT

SUBMISSION OF THE ACTIVITY DESIGN ON THE DETECTION OF TAMARAW AND MINDORO BLEEDING HEART IN PROTECTED AREAS USING SCIENTIFIC AND INDIGENOUS PERSPECTIVES IN SUPPORT OF THE TAMARAW CONSERVATION PROGRAM AND MT. CALAVITE WILDLIFE SANCTUARY – PROTECTED AREA

MANAGEMENT OFFICE

In line with the service and the fulfillment of the activities supported by the *Integrated Approach in Management of Major Biodiversity Corridors in the Philippines* (**BD Cor Project**) for the celebration of the Tamaraw Month 2022, the undersigned submits the activity design on the "Detection of Tamaraw and Mindoro Bleeding Heart in Protected Areas using Scientific and Indigenous Perspectives in Support of the Tamaraw Conservation Program (TCP) and Mt. Calavite Wildlife Sanctuary – Protected Area Management Office (MCWS-PAMO)". The activity shall be on October 19 to 22, 2022 and will involve staff from TCP, CENRO San Jose (as point personnel during the conduct of the 2019 Tamaraw Survey), and MCWS-PAMO from DENR; Municipal Environment and Natural Resources Office (MENRO) of Paluan; and conservation partners (D'Aboville Foundation and Demo Farm, Inc. and Mindoro Biodiversity Conservation Foundation, Inc.)

The training is for the provision of technical support for the TCP and MCWS-PAMO, which will facilitate the scientific processes and techniques in the detection of the two banner species of the BD Cor Project, i.e., *Bubalus mindorensis* (tamaraw) Heude, 1888 and *Galicollumba platenae* (Mindoro bleeding-heart pigeon) Salvatori, 1893). These species are known to occur within the protected area per the 2019 Tamaraw Survey and bird assessment in 2013, respectively. The latter is the last known record of the species for Occidental Mindoro. These activities find support with the conservation partners and are responsible for the knowledge base for *B. mindorensis* and other species in the corridor.

The training will find presentations from the conservation partners and will culminate with a cultural night, which will serve as the venue for information sharing and exchange of indigenous mechanisms for detection of species. This will also serve as a venue for streamlining indigenous cultures and conservation, as packaged in Component 4 of the BD Cor Project (Knowledge management, Gender mainstreaming, Learning, Monitoring, and Evaluation).

For information, review, and recommendation for approval.

AN LLOYD I. BALON



ACTIVITY DESIGN

TITLE: Training on the Detection of Tamaraw and Mindoro Bleeding Heart

Pigeon in Protected Areas using Scientific and Indigenous Perspectives in Support of the Tamaraw Conservation Program and Mt. Calavite

Wildlife Sanctuary – Protected Area Management Office

DATE : October 20 to 22, 2022 (Tentative)

VENUE: Paluan, Occidental Mindoro

I. BACKGROUND AND RATIONALE

Implementation of the project entitled, "Integrated Approach in Management of Major Biodiversity Corridors of the Philippines" or BD Cor Project, is a multi-agency commitment and convergence of management through the Department of Environment and Natural Resources (DENR) and funded by the Global Environment Facility (GEF) and the United Nations Development Programme (UNDP). The BD Cor Project aims to "operationalize integrated management of biodiversity corridors to generate multiple benefits including effective conservation of globally threatened species and high conservation value forests, reduce deforestation and degradation and enhance local biodiversity-friendly livelihoods". These will be addressed through the reduction of threats and pressures involving conflicts in land utilization, physical developments, deforestation and degradation of ecosystems, increasing human-wildlife conflicts, pollution – including the introduction and proliferation of invasive alien species (IAS), and impacts of climate change.

The implementation of the BD Cor Project has four major components, which were designed to encapsulate the integrative framework towards better governance of the biodiversity corridor as summarized below:

Component 1	Effective coordination and governance framework for integrated ecosystem management in the Philippines biodiversity corridors system	
Component 2	Application of integrated network design and management of biodiversity corridors to ensure continued stability and sustainability of their biological, ecosystem services and socio-economic conservation values	
Component 3	Community-based sustainable use and management systems in the two pilot biodiversity corridor systems in the Philippines	
Component 4	Knowledge management, gender mainstreaming, learning, monitoring, and evaluation	

Motivations of the current initiative revolve on simultaneous project implementation within protected areas and, as an additional activity, empowering species ownership in the entire corridor. Moreover, the BD Cor Project entails providing connectivity between key biodiversity areas (KBAs) with habitat centroids in protected areas. The initiative also



highlights the multi-species detection partnered with organizations with impetuses for biodiversity conservation and management.

In the entire Mindoro Biodiversity Corridor (MBC), a divide on the northern juridical localities significantly affects overall analyses on connectivity and abound by socio-political and demographic conflicts. Since the establishment and usage of the national highway from Abra de Ilog to Mamburao, Occidental Mindoro, the KBA of Mt. Calavite and the encompassing protected area – Mt. Calavite Wildlife Sanctuary (MCWS), located in Paluan, Occidental Mindoro, had been practically isolated with the rest of the corridor. This presents a number of challenges in terms of movements of biodiversity and, in turn, the overall connectivity with the rest of the biological complexes in MBC:

- While road networks, if these are roads alone, have net zero (0) impact to corridor connectivity, the construction and usage of the national highway attracted development and, in turn, settlements, which effectively deter species movement from disturbance;
- Emergence of settlements in the corridor, specifically along the stretch of major transportation conduits, have motivated the conversion of lowlands principally lowland forests to extensive agricultural areas, which provide the economic base of localities and the entire Province of Occidental Mindoro from production of grain and, seasonally, lowland vegetable commodities;
- Agriculture invites and assimilates local and indigenous communities (i.e., in this case *Iraya-Mangyan*) for accelerated conversion of areas within their ancestral domains (ADs), which had sustainable practices with production of upland and rain-fed rice varieties, root crops, and highland vegetables; and
- Current socio-political factors skew to increasing economic bases with enterprise development, which do not have sufficient environmental safety nets.

These causalities had adverse impacts on establishing appropriate biodiversity pathways and refugia for species movements and genetic exchange. The latter encompass the current postulations with *Bubalus mindorensis* (tamaraw) Heude 1888, particularly the very poor detection and lack of sufficient evidence on the presence of the species in MCWS. Additionally, lowland forests and ecosystems, which underwent the greatest conversions in the entire corridor, are determined habitats of the *Gallicolumba platenae* (Mindoro Bleeding Heart Pigeon) Salvadori 1893. The species, similar with *B. mindorensis*, had not been sufficiently detected and studied within the protected area. These species are highlighted, among the other fauna within the protected area, as the banner for protection, conservation, and connectivity of KBAs and OECMs with the implementation of the BD Cor Project.

Current efforts for conservation in the protected area focus on the rediscovery of *B. mindorensis*, which was undetected for 25 years. As the main program for conservation of *B. mindorensis*, TCP conducted expeditions for species detection in 2019. These yielded positive results in terms of the detection of large mammals (i.e., *Sus oliveri*, Mindoro Warty Pig and *Rusa Marianna*, Philippine Brown Deer) and detected one juvenile individual of the species. However, without appropriate documentation, the latter is still under speculation with anoa experts and specialists of the International Union for Conservation of Nature (IUCN). However, the same cannot be said for the *G. platenae* with most recent discovery in MCWS in 2013. It is also postulated that there might have been localized extirpation of the species



because of the increasing activities within the lowland forest areas of MCWS. These knowledge base on the highlighted species would not be possible without the partnered efforts with organizations dedicated for biodiversity conservation.

Among conservation partners in MCWS, the Mindoro Biodiversity Conservation Foundation, Inc. (MBCFI) and D'Aboville Foundation and Demo Farm, Inc. (DAF) are the most active. The MBCFI is a member of the Protected Area Management Boards (PAMBs) in the entire Mindoro Island and provides scientific and technical support for novel initiatives in line with tamaraw and biodiversity detection for conservation. The organization also centers its operations to provide support for monitoring of the species found in the entire island. On the other hand, DAF is a collective of international and local experts, initially, for tamaraw, but had sufficiently expanded operations to reduce human-wildlife conflicts within indigenous communities. Currently, DAF's support to MCWS comes from the technical and logistical support to, first, detect the tamaraw and, second, to increase knowledge and awareness for other important and equally threatened species.

The BD Cor Project's roles in streamlining awareness of the key species for management are integrative for the overall landscape planning for multi-species conservation. While the initiative finds funding under Component 4 and for the Tamaraw Month Celebration, it is crucial to promote both species for start-up of implementation in MBC. These are foreseen to be precursory to the integrating approaches of the BD Cor Project with objectives on shared governance on biodiversity conservation and management, promotion of sustainable and community-based forest management, and providing knowledge for the appreciation of future generations.

II. OBJECTIVES

General Objective: Showcase the counting activities conducted annually and the capabilities of the TCP and PAMO Rangers with the detection of species using both scientific methodologies and indigenous knowledge.

Specific Objectives:

- 1. Provide an overview of the BD Cor Project, specific to MBC;
- 2. Present the conservation efforts for tamaraw and other important species of TCP and conservation partners;
- 3. Promote appreciation of species conservation and biodiversity management among multiple sectors and stakeholders, but with focus on the youth and indigenous groups;
- 4. Provide technical and indigenous knowledge on the detection of tamaraw and other important species; and
- 5. Raise awareness in line with the celebration of the 2022 Tamaraw Month.



III. EXPECTED OUTCOMES AND OUTPUTS

Outcomes	 Indigenous youth will have deeper appreciation on protected area management and species conservation Adjoining personnel will gain knowledge on the scientific and indigenous techniques for detection of species Conservation efforts will find streamlining with localized initiatives and identifying components for integrated management
Outputs	 Documented learning of adjoining participants through on-site approaches Documented methodologies utilized by partners for perusal of overall project support in the multi-year implementation Integrative components for management identified and enumeration for implementation in protected areas and ICCA

IV. METHODOLOGY

Pre-training activities

- 1. Drafting and sending out of coordination letters for the *Punong Barangay* of Harrison and Municipal Mayor of Paluan for the conduct of the activity
- 2. Drafting and sending out of invitation letters for MBCFI and DAF as resource speakers for the activity
- 3. Drafting and sending out letters for other DENROs with biodiversity units / operations
- 4. Drafting and sending out letters for indigenous peoples for participation
- 5. Coordination with MCWS-PAMO for knowledge and approval of PAMB
- 6. Coordination with TCP for logistics and ground support for the activity
- 7. Preparatory meeting with key officials of LGUs in Paluan for insight alignment and implementation support
- 8. Preparation of presentations on the BD Cor Project for awareness-building and tamaraw conservation efforts of DENR through TCP and conservation partners

Training proper

- 1. Presentation of the BD Cor Project overview
- 2. Presentation of the tamaraw conservation efforts of TCP
- 3. Presentation of the detection methodologies by conservation partners
- 4. Sharing of indigenous knowledge in a cultural night activity
- 5. On-site application of training knowledge through bird watching and camping activities in accessible areas with the ecological parameters suitable for inhabitation of tamaraw and other large mammals



Working Days (Tentative)

Working Days	Tentative Dates	Activity
Day 0	October 19, 2022	 Travel time of PENR Office personnel, MBC-CPMU, and selected TCP Participants to Paluan Pre-training assembly for refinement and final logistical checks
Day 1	October 20, 2022	 Alignment meeting and activity orientation with key officials of LGUs in Paluan (Note: For coordination with the Municipal Environment and Natural Resources Office (MENRO) for maximum participation for provision of logistical support) Training Day 1 Presentation of BD Cor Project Presentation of Tamaraw Initiatives Presentation of Findings of the Tamaraw Survey 2022 Presentation of Training Mechanics
Day 2	October 21, 2022	 Training Day 2 Knowledge-sharing and training of adjoining participants through presentations of MBC-CPMU, TCP, MCWS-PAMO, and conservation partners Cultural night and indigenous knowledge-sharing
Day 3	October 22, 2022	 Training Day 3 On-site application of knowledge in accessible areas within Barangay Harrison through a bird watching / hiking activity Awarding of certificates / tokens Activity wrap-up Post-activity assessment Return of adjoining participants to respective official workstations and homes

V. TARGET PARTICIPANTS

Organization / Office / Affiliation / Person	Prospective Participants	Number of Participants	
LGUs in Paluan		20	
Barangay LGU of Harrison	As represented by <i>Punong</i> Barangay, <i>Barangay</i> Council Members, and Barangay Peace and Order Officials	10	
Municipal LGU	As represented by the Municipal Mayor and accompanied by MENRO and uniformed personnel	10	
Department of Environment and Natural Resources		25	
PENR Office		1	
	Noriel M. Dulatre – <i>PMF</i>		
CENR Office – San Jose		2	



Organization / Office / Affiliation / Person	Prospective Participants	Number of Participants	
Allmation / 1 crson	Maria Teresita P. David, Jr.* – <i>Unit Head</i> ,	Тагистрани	
	BMU		
	Herold S. Castro – FT II		
MCWS-PAMO		11	
	Arlene V. Francisco – Protected Area		
	Superintendent (PASu)		
	Josie R. Corpuz – <i>PAMO Staff (Permanent)</i> Marites M. Castillo – <i>PAMO Staff</i>		
	(Permanent)		
	Jolly Mancilla – PAMO Staff (Permanent)		
	Maria Cecilia M. Abejar – PAMO Staff		
	(COS)		
	Jasmine Sabangan – EMS 1 (COS)		
	Jonas Rendon – Park Ranger		
	Von Edward Ballesteros – Park Ranger		
	Engelbert Cababay – Park Ranger Daniel Villanueva – Park Ranger		
	Omar Christopher Villas – Park Ranger		
TCP		7	
	Neil Anthony A. Del Mundo - Coordinator		
	Eduardo B. Bata – Tamaraw Ranger IV		
	John Ramer G. Casuncad – Community		
	Development Assistant		
	Alvin N. Tabuga – Technical Staff		
	Geronimo S. Barcena – <i>Tamaraw Ranger III</i>		
	Gener B. Fantuyaw – Tamaraw Ranger III		
	Arjay R. Dapatnapu – Tamaraw Ranger I		
BD Cor Project (MBC-CPMU)		4	
	Jan Lloyd I. Balon – RLPS (Head of		
	Activity and Secretariat)		
	Clinth Jezter G. Dela Cruz – CSC (Head of		
	Documentation)		
	Hired Drivers Kathy Lene S. Cielo – MBCC Manager		
MBCFI	Elyza Hazel P. Tan – Research Officer	2	
	Emmanuel Schutz – Program Director		
	Fernando Garcia Gil – Wildlife		
DAF	Conservation Research Officer	3	
	Rodolfo B. Santos, Jr. – Program Assistant		
C	/ Community Officer	30	
Community Members		30	
TOTAL		80	

^{*} As point person for the conduct of the 2019 Survey and for knowledge-sharing



VI. ITINERARY / PROVISIONAL PROGRAM

Date/Time	Activity	Responsible Personne
Day 0 (October 19, 2022)	•	entremperature productive and the contract of
01:00 PM – 04:00 PM	Travel of adjoining DENR personnel, BD Cor Project Staff, and conservation partners to MCWS-PAMO	Secretariat
04:00 PM – 05:00 PM	Courtesy call to PASu and MCWS-PAMO personnel Pre-training assembly and logistic check	CPMU PENR Office Personnel CENR Office Personnel MCWS-PAMO TCP Personnel MBCFI
		DAF
5:00 PM	Dinner	
Day 1 (October 20, 2022)	Training Day 1	
08:00 AM – 09:00 AM	Breakfast	CPMU PENR Office Personnel CENR Office Personnel MCWS-PAMO TCP Personnel MBCFI DAF
09:00 AM – 12:00 NN	Alignment meeting and activity orientation with LGUs in Paluan	CPMU PENR Office Personnel CENR Office Personnel MCWS-PAMO TCP Personnel MBCFI DAF
	 Prayer and National Anthem Welcome Remarks Activity Presentation Open Forum and Discussion Closing Remarks Snacks (served during the meeting) 	Secretariat Municipal LGU – Paluan CPMU, RLPS TCP Coordinator Secretariat PASu – MCWS
12:00 NN - 01:00 PM	Lunch	
01:00 PM – 02:00 PM	Travel of adjoining participants to MCWS-PAMO	Secretariat MCWS-PAMO
02:00 PM – 02:30 PM 02:30 PM – 05:00 PM	Registration of Participants Training Proper Prayer and National Anthem Welcome Remarks Message Presentation of BD Cor Project Overview	Secretariat Barangay LGU – Harrison Municipal LGU – Paluan CPMU, RLPS



	rumppines	
Date/Time	Activity	Responsible Personnel
	 Presentation of Protected Area Management Activities and Birds of Calavite 	PASu – MCWS / Representative
	 Presentation of Conservation Activities on Tamaraw Presentation of Findings of the 2019 Tamaraw Survey in MCWS 	TCP Coordinator Tamaraw Ranger IV CENR Office – San Jose
	 Presentation of Training Mechanics / Camp Activities End of Day 1 Activities 	CMPU, CSC
Day 3 (October 21, 2022)	Training Day 2	
06:00 AM – 07:00 AM	Travel of adjoining participants to Sitio Hinugasan Breakfast	CPMU PENR Office Personnel CENR Office Personnel TCP Personnel
08:00 AM – 12:00 NN	 Training Proper Presentation of techniques in tamaraw detection Presentation on bird identification 	Secretariat MBCFI DAF
12:00 NN - 01:00 PM	and detection Snacks Lunch	
01:00 PM – 05:00 PM	 Indigenous knowledge-sharing Discussion of on-site identification mechanics Snacks	Secretariat MCWS-PAMO Indigenous PAMO / TCF Staff
05:00 PM – 08:00 PM	Cultural Night Dinner	Secretariat MCWS-PAMO Indigenous PAMO / TCP Staff
08:00 PM	Lights Off End of Day 2 Activities	
Day 4 (October 22, 2022)	Training Day 3	
05:00 AM – 09:00 AM	Short hike / Bird watching (Note: Possible stops to point areas with ecological parameters for inhabitation of large mammals)	MBCFI, DAF, TCP
06:00 AM – 09:00 AM	Return to camp site Snacks	Secretariat MCWS-PAMO
09:00 AM – 11:00 AM	Awarding of Certificates / Tokens	Secretariat MCWS-PAMO TCP Coordinator
11:00 AM – 12:00 NN	Closing Remarks Training wrap-up Post-activity assessment	TCP Coordinator Secretariat
12:00 NN - 01:00 PM	Lunch	
01:00 PM	Return of all participants to official work stations / homes**	

^{*} To be picked up in school grounds

^{**} Students to be ferried to respective homes / designated drop-off points



VII. BUDGETARY REQUIREMENTS

C	Assumptions			Davidensk (DIED)
Summary	Provision	Unit Cost (PHP)	Number / Unit	Budget (PHP)
	Day 0	and the bases are not an expression of the expression of the forest states and the expression of the e		9,000.00
	Dinner	300.00	30 pax	9,000.00
	Day 1			53,500.00
	Breakfast	200.00	30 pax	6,000.00
	AM Snacks	150.00	50 pax	7,500.00
	Lunch	350.00	50 pax	17,500.00
	PM Snacks	150.00	50 pax	7,500.00
	Dinner	300.00	50 pax	15,000.00
Representation	Day 2			71,000.00
Expenses	Breakfast	200.00	50 pax	10,000.00
	AM Snacks	150.00	50 pax	7,500.00
	Lunch	350.00	50 pax	17,500.00
	PM Snacks	150.00	80 pax	12,000.00
	Dinner	300.00	80 pax	24,000.00
	Day 3			35,000.00
	Breakfast	200.00	50 pax	10,000.00
	AM Snacks	150.00	50 pax	7,500.00
	Lunch	350.00	50 pax	17,500.00
Sub-total				168,500.00
Accommodation* Expenses	Venue	5,000.00	1 room x 2 day	10,000.00
Sub-total				10,000.00
Travel Expenses	Vehicle Rental	8,000.00	1 van x 4 days	32,000.00
Sub-total				32,000.00
Tokens	Tokens	1,000.00	7 pax	7,000.00
Sub-total			The same that the same transition of the same	7,000.00
GRAND TOTAL				217,500.00

^{*} Sleeping quarters will be in MCWS-PAMO

^{**} For Day 0 - CPMU will travel from Sablayan, Occidental Mindoro



Prepared:	Reviewed:
FOR. JANGLOYD I. BALON Regional Landscape Planning Specialist BD Cor Project	CELSO B. ALMAZAN SVEMS/In-charge, Technical Services Division BD Cor Project Focal
Recommending Approval:	

DONNA MAYOR-GORDOVE, CESO IV

Assistant Regional Director for Management Services

Approved:

LORMELYN E. CLAUDIO, CESO IV Regional Executive Director