Integrated Approach in Management of Major Biodiversity Corridors in the Philippines

ACTIVITY DESIGN

TITLE   :   **Orientation Training on Biodiversity Monitoring and Information Systems for PAs and OECMs**

DATE   :   March 06 - 16, 2023

VENUE   :   Face to Face, Butuan City (March 6 – 11); Davao City (March 13 – 16)

I.   *Introduction and Rationale*

The Department of Environment and Natural Resources (DENR), with funding from the Global Environment facility (GEF) and support from the United Nations Development Program (UNDP), is implementing the project entitled **"Integrated Approach in Management of Major Biodiversity Corridors in the Philippines"** or **BD Corridor.** The 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. It is aimed at addressing the increased degradation of habitats from deforestation and conversion to agriculture and expanding infrastructure development, pollution, invasive alien species (IAS) and climate change which are threatening critical habitats and ecosystems and their attendant biodiversity. This Project has four components, namely:

- 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; and
- Component 4: Knowledge management, gender mainstreaming, learning, monitoring and evaluation.

One of the goals of the BD Corridor Project is to assist in the automation of biodiversity monitoring systems for biodiversity and threat assessment in protected areas and other Effective Area-based Consevation Measures (OECMs) (Indicator 6). Another goal is to develop an automated information management system to monitor biodiversity threats (Indicator 14).

The orientation training will be conducted in two (2) parts. The first part, (6-11 March 2023), will cover the topics on the enhanced eBAMS and eSEAMS which aims to test its applicability within the coverage of the BD Corridor Project. This will also provide managing baseline information and strategic actions for planning for the biodiversity assessment and monitoring activities.

The second part, (13-16 March 2023), will focus on the Protected Area Information System (PAIS) and the Caves and Wetlands Information System (CWIS) and will be tested in real time with simultaneous user online access.

II.   Objectives

1. Orient and train participants on the features and use of eBAMS, eSEAMS, PAIS and CWIS;
2. Determine unforeseen issues, requirements and challenges that need to be addressed   in the application of the Systems;
3. Gather feedback and suggestions from the participants on the further improvement of the Systems; and
4. Level-off with the participants particularly the DENR-KISS representatives, Regional CDD and ICT Focal persons on their role in the implementation and monitoring of the Systems.

III.   *Expected Outputs*

The orientation training will have the following expected outputs:

1. Understanding and appreciation on the application of the eBAMS and eSEAMS in monitoring biodiversity within PAs and in BD Corridor sites;
2. Appreciation on the functionality of PAIS and CWIS in populating and updating relevant information on PAs, caves and wetlands in a centralized online database;
3. Recommendations on how to further improve the Systems; and
4. Training Report.

IV.   *Methodology*

The orientation training will be conducted in a face to face format through lectures and hands-on activities to familiarize the participants with the monitoring tools and information systems. Participants will be required to have an internet-capable computer/laptop and/or tablet which will be used during the hands-on exercises and field testings. For the PAIS and CWIS, participants will be required to bring with them relevant documents on PA, Caves and Wetlands (e.g. inventory and assessment forms) which they will encode/upload in the systems. It is also required to have a stable internet connection for the duration of the orientation training.

V.   *Participants*

Participants	*No.*
1. *DENR KISS*	*2*

2. *DENR FASPS*	*2*
3. *DENR Regional Offices (4B, 11 and 13)* • *Regional ICT personnel* • *Conservation and Development Division*	*6*
4. *Protected Area Management Offices* • *Protected Area Superintendent (PASu) or Assistant Protected Area Superintendent (APASu)* • *Protected Area Staff*	*26*
5. *National Parks Division*	*2*
6. *Caves, Wetlands, and other Ecosystems Division*	*2*
7. *Wildlife Resources Division*	*2*
8. *Biodiversity Policy and Knowledge Management Division*	*6*
9. *NPMU Staff*	*4*
10. *MBC CPMU Staff*	*2*
11. *EMBC CPMU Staff*	*2*
TOTAL	***56***

VI.   Resource Speakers

1. Darwin R. Tejerero
2. Ma. Sarah Jane C. Tagtag
3. Michelle G. Aplan
4. James Foronda II
5. Jefrey Jaymes Mesias
6. Rina Maria Rosales, USAID SIBOL
7. Freddie Palermo, USAID SIBOL
8. Clarice Tee, USAID SIBOL
9. Dr. Neil Aldrin Mallari, USAID SIBOL
10. Clark Jerome Jasmin, USAID SIBOL
11. Alexandra Arel Ramos, USAID SIBOL
12. Jennica Paula Masigan, USAID SIBOL (optional)

VII.   Provisional Program of Activities

Part 1 E-BAMS and E-SEAMS

Day/Time	Topic	Remarks
Day 1 (March 6, Monday)		
8:00 - 8:30	Registration	
8:30 - 9:00	Opening Ceremony	Fidel A. Evasco RED, DENR R11 USAID SIBOL
9:00 - 9:15	Introduction of Participants	
9:15 - 9:30	Rationale of the Activity and Expectation Setting	
SESSION 1	Navigating the E-SEAMS e-form	
9:30 – 10:30	Background on E-SEAMS	
10:30 - 12:00	Live walkthrough and practicum of the e-form modules • Preliminary Information • Demographics	

Day/Time	Topic	Remarks
12:00 - 1:00	Lunch Break	
1:00 - 5:30	Live walkthrough and practicum of the e-form modules • Household Income • Entrepreneurial Income from Agriculture	
5:30 - 6:00	Day 1 Wrap up	
Day 2 (March 7, Tuesday)		
8:00 - 8:30	Recap of Day 1	
8:30 - 12:00	Live walkthrough and practicum of the e-form modules • Entrepreneurial Income from Agriculture • Entrepreneurial Income from Livestock and Poultry	
12:00 - 1:00	Lunch Break	
1:00 - 5:30	Live walkthrough and practicum of the e-form modules • Entrepreneurial Income from Fisheries-Capture	
5:30 - 6:00	Day 2 Wrap up	
Day 3 (March 8, Wednesday)		
8:00 - 8:30	Recap of Day 2	
8:30 - 12:00	Live Walkthrough and practicum of e-forms modules • Environmental Quality • Natural Hazards • Housing, Sanitation and Health • Institutional Knowledge	
12:00 - 1:00	Lunch Break	
1:00 - 4:30	Live Walkthrough and practicum of e-forms modules • PA Perception and Knowledge • Enforcement Work Planning Data Transfer	
4:30 - 5:00	Closing Remark	
Day 4 (March 9, Thursday)		
SESSION 2	Navigating the E-BAMS e-form	
8:00 - 8:30	Rationale of the Activity and Expectation Setting	
8:30 to 9:00	Maximising science and tech-based tools to inform management	
9:30 to 10:00	Background on e-BAMS (introduce tech-based tools)	

10:00 - 12:00	The "A" in BAMS
	Live walkthrough and practicum of the e-form modules
	• Flora Assessment
	    o Ecosystem Level Assessment
	    o Upper Canopy Assessment	

12:00 to 1:00	Lunch	

1:00 to 4:00	Live walkthrough and practicum of the e-form modules
	• Flora Assessment
	    o Understory Assessment
	    o Ground Cover Diversity Assessment
	    o Permanent Monitoring Plot	

4:00 to 5:00	Live Walkthrough and practicum of e-forms modules • Fauna Assessment o Birds	
Day 5 (March 10, Friday)		
8:00 - 8:30	Recap of Day 4	

Day/Time	Topic	Remarks

8:30 - 12:00	Live Walkthrough and practicum of e-forms modules
	• Fauna Assessment
	   ○ Herps
	   ○ Mammals
	   ○ Arthropods [optional]	

12:00 - 1:00	Lunch Break	
1:00 - 3:00	The "M" in BAMS Live Walkthrough and practicum of e-forms modules • Fauna Monitoring • Fauna Monitoring	
3:00 to 4:00	Hands-on demonstration (indoors only)	
4:00 to 4:30	Lessons Learned – Integration of monitoring systems using interoperable platform	
4:30 to 4:45	Preparations for fieldtrip	
4:45 - 5:00	Closing Remark	
Day 6 (March 11, Saturday): Field Trip (PA to be identified)		
6:00	Departure	
12:00 - 1:00	Lunch Break	
5:00	Return to Hotel	
Day 7 (March 12, Sunday): TRAVEL TO DAVAO CITY		

Part 2 PAIS and CWIS

Day/Time	Topic	Remarks
Day 8 (March 13, Monday)		
8:00 - 8:30	Registration	
8:30 - 9:00	Opening Ceremony	
9:00 - 9:15	Introduction of Participants	
9:15 - 9:30	Rationale of the Activity and Expectation Setting	
SESSION 1	Protected Area Information System (PAIS)	
9:30 - 10:00	Overview of the Protected Area Information System • What is PAIS • How PAIS works • Roles of Data Managers and Administrators • Roles and Responsibilities of Users	Ma. Sarah Jane C. Tagtag, BPKMD
10:00 - 12:00	Presentation of PAIS Menu	
12:00 - 1:00	Lunch Break	
1:00 - 4:00	Continuation of Presentation of PAIS Menu	
4:00 - 5:00	Open Forum	
Day 9 (March 14, Tuesday)		
8:30 - 9:00	Recap of Day 1	
SESSION 2	Overview of the Caves and Wetlands Information System • What is CWIS • How CWIS works • Roles of Data Managers and Administrators • Role and responsibilities of Users	
9:00 - 10:30	Presentation of CWIS Menus	
12:00 - 1:00	Lunch Break	
1:00 - 4:00	Continuation of Presentation of CWIS Menus	
4:00 - 5:00	Open forum	

Day/Time	Topic	Remarks
Day 10 (March 15, Wednesday)		
8:30 - 9:00	Recap of Day 2	
9:00 - 12:00	PAIS & CWIS Hands-on exercises	
12:00 - 1:00	Lunch Break	
1:00 - 3:00	Continuation of hands-on exercises	
3:00 - 4:00	Open Forum	
4:00 - 4:30	Synthesis and Next Steps	
4:30	Closing Remarks	
Day 11 (March 16, Thursday) : Field Trip (PA to be identified)		
Day 12 (March 17, Thursday) : Homeward Bound		