



Republic of the Philippines  
Department of Environment and Natural Resources  
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## MEMORANDUM

FOR/TO : **THE UNDERSECRETARY**  
Integrated Environmental Science

**THE BUREAU DIRECTORS**  
Forest Management Bureau  
Biodiversity Management Bureau  
Ecosystems Research and Development Bureau

**THE SERVICE DIRECTORS**  
Policy and Planning Service  
Knowledge and Information Systems Service  
Climate Change Service

**THE REGIONAL EXECUTIVE DIRECTORS**  
All Regions

FROM : **THE UNDERSECRETARY**  
Finance, Information Systems and Climate Change

SUBJECT : **REQUEST FOR PARTICIPANTS TO THE GROUND VALIDATION SURVEYS - RAPID BIODIVERSITY ASSESSMENT AND COMMUNITY RESOURCE-USE- SECOND STEP OF THE GREEN ASSESSMENT**

DATE : **31 AUGUST 2023**

In relation to the Memorandum dated 26 May 2023 on the Application of the Green Assessment Framework - Rapid Appraisal and Ground Truthing Survey, the Climate Change Service in collaboration with USAID SIBOL<sup>1</sup> will be conducting the capacity development on aerial ground truthing, second step of the green assessment.

Initially formulated to post-disaster scenarios by the USAID SIBOL project, specifically for Typhoon Odette, the green assessment will be adopted by the Department to provide pre- and post-disaster studies based on ecosystems and biodiversity that will serve as the foundation for planning for future disaster risks as well as green reconstruction and resilience planning. This Framework has three tiers: Stage 1, which involves Rapid Appraisal to determine the extent of damage to ecosystems, Stage 2, which entails post-disaster comprehensive assessment of biodiversity, ecosystems, and ecosystem services and Stage 3 Resilience Planning.

The series of workshops will aim to enhance the capacity of DENR employees through the updating of existing methodologies and adoption of new ones for the department.

The Rapid Biodiversity Assessment will determine changes in biodiversity, and threatened ecosystems and refugia; and advance knowledge on utilizing and maximizing biodiversity

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<sup>1</sup> Philippine Sustainable Interventions for Biodiversity, Oceans and Landscapes (SIBOL) is a project launched by the United States Agency for International Development (USAID) that will support the management of the country's natural resources and combat environmental crimes. The Research Triangle Institute International serves as its lead implementer.

information during post-disaster scenarios. This will then result in a more accurate and detailed estimate of the extent of

damage that will inform the green recovery planning.

With this, may we request representatives from Regional Offices and Bureaus to be trained for rapid biodiversity assessment to be conducted on **September 11-15 (Luzon Cluster) and September 25-29, 2023 (Visayas-Mindanao Cluster)** in a venue within Clark, Pampanga and Cebu City, Cebu. We strongly encourage the attendance of field personnel from our PENROs and CENROs.

Please be guided by the following requested representations:

1. One (1) staff trained during the Stage 2 Aerial Ground Truthing
2. Two (2) staff from PENRO/CENRO

Qualifications and requirements for target participants are indicated in the attached Activity Design. We also encourage nominations of female participants to ensure gender balance in capacity building activities.

USAID SIBOL will be covering the food and accommodation expenses during the workshop proper. Travel expenses of chosen representatives from and to their place of assignments must be charged to each respective office.

Should you have queries and concerns, kindly contact the Climate Change Service through [ccs@denr.gov.ph](mailto:ccs@denr.gov.ph) or 02-8928-1194. Please fill-up the registration form <https://tinyurl.com/GAS2RBA-Registration> to confirm the attendance of your participants on or before **September 04, 2023**.

Please see attached concept note and draft special order for more detailed information on the activity.

  
ATTY. ANALIZA R. BUELTA-TEH

cc

Undersecretary for Organizational Transformation and Human Resources

Undersecretary for Field Operations - Luzon, Visayas and Environment

Undersecretary for Field Operations - Mindanao



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## **National Capacity development for DENR on Green Assessment Stage 2 Post-disaster Comprehensive Assessment (Rapid Biodiversity Assessment and Community Resource-Use)**

### **Introduction and objectives**

The Green Assessment Framework was developed to determine the magnitude of typhoon-related damages to biodiversity, ecosystems, and ecosystem services. The Green Assessment Framework has four (3) stages. Stage 1 is the rapid appraisal, which makes use of GIS and RS technology to generate data on vegetation cover and identify any changes on forest surface cover. Stage 2 employs a centralized stream of data gathering and actual ground validation surveys, including the analyses of data. Stage 3 involves developing green resilience plans for damages to biodiversity and ecosystem assets. To continue the national capacity development, training on rapid biodiversity assessments (stage 2) will be conducted to improve the skills of participants on evaluating the status of ecosystem health and recovery following a natural disaster. The results of the biodiversity assessment can provide managers with ground validated data on the actual damage incurred. The data will include post-disaster statistics and condition of flora and fauna in the affected areas identified from Stage 1. This will then result in a more accurate and detailed estimate of the extent of damage that will inform the green recovery planning.

The capacity development activities aim to improve management effectiveness of conservation areas by strengthening decision-making instruments which will lead to improved governance of natural resources management. The training specifically aims to:

1. For participants to be familiarized on the green assessment framework and gain experience in its implementation;
2. For participants to advance their knowledge and utilization of rapid biodiversity assessment and community resource-use for post-disaster scenarios; and
3. For participants to learn how to curate the data gathered, in preparation for analyses.

### **Expected outputs during Stage 2 Training**

- Data sheets per taxonomic group
- Encoded and curated data from field exercise
- Oral report of results from field exercise
- Accomplished post-evaluation questionnaire

### **Qualifications and requirements for participants:**

1. Bachelor's degree in natural sciences (e.g., Biology, Forestry, Environmental Science, Geology and related backgrounds)
2. Has knowledge on performing basic statistics and basic mapping
3. Able to follow technical instructions
4. Prior experience in conducting biodiversity surveys and monitoring desired, but not required
5. Participants must bring their personal or work laptops during the workshop
6. Participants must complete the pre-registration form before attending

Each Bureau/Office must send three representatives with these specializations:





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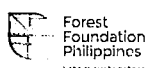


- Representatives should come from the regional office (1 pax), PENRO (1 pax), CENRO (1 pax)
- One representative with knowledge and experience on flora handling/identification
- One representative with knowledge and experience on fauna handling/identification
- One technical/planning officer

**Provisional Program of Activities**

**Day 1**

Time	Activity	Resource Person
7:00 to 8:00 AM	Breakfast	Hotel Accomodation
8:00 to 9:00 AM	Arrival and Registration of Participants	Secretariat
9:00 to 9:10 AM	Opening prayer and National Anthem	Secretariat
9:10 to 9:15 AM	Opening message	DENR CCS
9:15 to 9:20 AM	Welcome Remarks	SIBOL COP/DCOP
9:20 to 9:30 AM	Introductions	Ms. Rhiana Angelita Parr HCVA Research Associate, CCIPH-SIBOL
9:30 to 10:30 AM	<b>Lecture 1. Introduction to the Green Assessment Framework -</b> Presentation on what is the Green Assessment Framework, and how this can be applied as an early response to typhoon and natural disaster related damages in assessing extent of damages to forests, biodiversity, and community.	Dr. Neil Aldrin Mallari Ecosystem Integration Specialist, CCIPH-SIBOL
10:30 AM to 11:30 AM	<b>Lecture 2. Priority Species for Conservation Management</b>	Dr. Neil Aldrin Mallari Ecosystem Integration Specialist, CCIPH-SIBOL
11:30 AM to 12:00 noon	<b>Activity 1. Selecting Management Indicator Species</b>	Ms. DeAnne Rochelle Abdao HCVA Research Associate, CCIPH-SIBOL
12:00 noon to 1:00 PM	Lunch Break	
1:00 to 1:30 PM	<b>Activity 1. Selecting Management Indicator Species -Presentations</b>	Ms. DeAnne Rochelle Abdao





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		HCVA Research Associate, CCIPH-SIBOL
1:30 to 2:30 PM	<b>Lecture 3.</b> Survey Design for Rapid Biodiversity Assessment	Mr. Jhonny Wyne Edano Ecological Modeling Specialist, CCIPH-SIBOL
2:30 to 4:30 PM	<b>Activity 2.</b> Designing your survey <ul style="list-style-type: none"> <li>• Site selection using Stage I Map Outputs</li> <li>• Collating available biodiversity information</li> </ul>	Mr. John Lister Bibar HCVA Research Associate, CCIPH-SIBOL
4:30 to 5:00 PM	Summary of Day 1 Training	Ms. Rhiana Angelita Parr HCVA Research Associate, CCIPH-SIBOL
6:00 PM	Dinner	

**Day 2**

Time	Activity	Resource Person
7:00 to 9:00 AM	Breakfast	
9:00 to 9:30 AM	<b>Lecture 4. Transect and Plot Establishment</b>	Dennis Tablazon HCVA Research Associate, CCIPH-SIBOL
9:30 to 10:30 AM	<b>Activity 3.</b> Adjusting to Challenges in the Field 9:30-11	Ms. Rhiana Angelita Parr HCVA Research Associate, CCIPH-SIBOL
10:30 to 11:30 NN	<b>Lecture 5.</b> Post-disaster Habitat Sampling Techniques	Dr. Mary Ann Bautista Botanist CCIPH-SIBOL
11:30 to 12:00 NN	<b>Activity 4.</b> Conducting Post-disaster Habitat Sampling	Raffy Mark Failon HCVA Research Associate, CCIPH-SIBOL  Minjel Mae Zaragosa HCVA Research Associate, CCIPH-SIBOL
12:00 to 1:00 PM	Lunch	





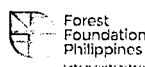
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1:00 to 2:00 PM	<b>Lecture 6. Flora (Trees) Sampling Techniques</b>	Dr. Mary Ann Bautista Botanist CCIPH-SIBOL
2:00 to 3:30 PM	<b>Lecture 7. Faunal Sampling Techniques</b>	Mr. John Lister Bibar HCVA Research Associate, CCIPH-SIBOL  Ms. DeAnne Rochelle Abdao HCVA Research Associate, CCIPH-SIBOL  Mr. Jhonny Wyne Edano Ecological Modeling Specialist, CCIPH-SIBOL
3:30 to 4:30 PM	<b>Lecture 8. Tools for Taxonomic Identification</b>	Mr. Jhonny Wyne Edano Ecological Modeling Specialist, CCIPH-SIBOL
4:30 to 5:00 PM	Summary of Day 2 Training and Orientation for Activity 5	Ms. Rhiana Angelita Parr HCVA Research Associate, CCIPH-SIBOL
6:00 PM	Dinner	

**Day 3**

Time	Activity	Resource Person
7:00 to 9:00 AM	Breakfast	
9:00 AM to 12:30 PM	<b>Activity 5. Field Survey Simulation</b>	SIBOL
12:30 to 1:30 PM	Lunch	
1:30 to 2:00 PM	Post-evaluation for Activity 5	Ms. DeAnne Rochelle Abdao HCVA Research Associate, CCIPH-SIBOL
2:00 to 2:30 PM	<b>Lecture 9. Field Data Curation</b>	Mr. John Lister Bibar HCVA Research Associate, CCIPH-SIBOL





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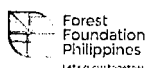
2:30 to 4:30 PM	<b>Activity 6.</b> Encoding and Curation of Field Data	Raffy Mark Failon HCVA Research Associate, CCIPH-SIBOL
4:30 to 5:00 PM	Summary of Day 3 Training	Ms. Rhiana Angelita Parr HCVA Research Associate, CCIPH-SIBOL
6:00 PM	Dinner	

#### Day 4

Time	Activity	Resource Person
7:00 to 9:00 AM	Breakfast	
9:00 to 10:00 AM	<b>Lecture 10.</b> Methods for Analyzing Green Assessment Data	Jennica Paula Masigan HCVA Specialist CCIPH-SIBOL
10:00 to 12 NN	<b>Activity 7.</b> Measuring Sampling Effort	Mr. Jhonny Wyne Edano Ecological Modeling Specialist, CCIPH-SIBOL
12:00 to 1:00 PM	Lunch	
1:00PM to 3:30 PM	<b>Activity 8.</b> Preparing SDM Metadata	Jennica Paula Masigan HCVA Specialist CCIPH-SIBOL
3:30 to 4:30 PM	<b>Lecture 11.</b> Gauging the Impacts of Natural Disasters to High Conservation Values in the Lens of Local Communities	Lawrence Empillo Study of Land Use Change Team Lead CCIPH-SIBOL
4:30 to 5:00 PM	Summary of Day 4 Training	Ms. Rhiana Angelita Parr HCVA Research Associate, CCIPH-SIBOL
6:00 PM	Dinner	

#### Day 5

Time	Activity	Resource Person
7:00 to 9:00 AM	Breakfast	

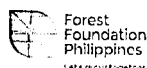




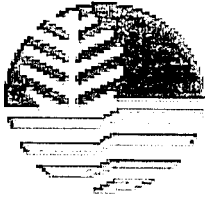
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9:00 to 12:00 NN	<b>Cont. of Lecture 11.</b> Gauging the Impacts of Natural Disasters to High Conservation Values in the Lens of Local Communities	Lawrence Empillo Study of Land Use Change Team Lead CCIPH-SIBOL
1:00 to 2:00 PM	<b>Lecture 12.</b> Case Studies on Green Assessments	Jennica Paula Masigan HCVA Specialist, CCIPH-SIBOL
2:00 to 3:30	<b>Workshop 5.</b> Post-evaluation and Open Forum Discussion	Ms. Rhiana Angelita Parr HCVA Research Associate, CCIPH-SIBOL
3:30 to 4:00 NN	<b>End of Training Program.</b> Closing Remarks and Awarding of Certificates	SIBOL and DENR CCS







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**SPECIAL ORDER**

No. 2023 - \_\_\_\_\_

**SUBJECT: AUTHORIZING THE ATTENDANCE OF EMPLOYEES FROM BUREAU AND REGIONAL OFFICES TO THE CONDUCT OF CAPACITY DEVELOPMENT ON RAPID BIODIVERSITY ASSESSMENT AND COMMUNITY RESOURCE-USE - SECOND STEP OF THE GREEN ASSESSMENT FRAMEWORK**

In the interest of service and to adopt green resilience planning to improve the protection, conservation, and sustainable use of ecosystem and ecosystem services, the attendance of the following personnel to the conduct of Ground Validation Surveys - Rapid Biodiversity Assessment - Second Step of the Green Assessment by USAID SIBOL is hereby authorized on September 11-15 (Luzon Cluster) and September 25-29, 2023 (Visayas-Mindanao Cluster) in Clark, Pampanga and Cebu City, Cebu is hereby authorized:

<b>OFFICE</b>	<b>PARTICIPANTS</b>
<b>Luzon Cluster</b>	
Forest Management Bureau	3
Biodiversity Management Bureau	3
Ecosystems Research and Development Bureau	3
Knowledge and Information Systems Service	1
Policy and Planning Service	2
Climate Change Service	3
Geospatial Database Office	3
Region I	3
Region II	3
CAR	3

Region III	3
NCR	3
Region IV-A	3
Region IV-B	3
Region V	3
<b>Visayas-Mindanao Cluster</b>	
Climate Change Service	3
Region VI	3
Region VII	3
Region VIII	3
Region IX	3
Region X	3
Region XI	3
Region XII	3
Region XIII	3

All expenses to be incurred in relation to the activity including honoraria of the resource persons, food and accommodation expenses will be covered by USAID SIBOL.

Travel expenses of chosen representatives from and to their place of assignments and other allowable expenses shall be charged against respective office funds, subject to usual accounting and auditing rules and regulations.

As such, the Climate Change Service (CCS) shall take the lead in coordination and preparation of the overall activity in collaboration with the United States Agency for International Development Sustainable Interventions for Biodiversity, Oceans and Landscape (USAID SIBOL) of the training for green assessment of provinces.

The Climate Change Service Director is authorized to amend this Special Order should USAID SIBOL needs to change the schedule and venue of implementation.

A report shall be submitted online ([bit.ly/LNDportal](http://bit.ly/LNDportal)) by the Climate Change Service to the undersigned through the Human Resource Development Service -

Training and Development Division, fifteen (15) working days after the completion of the activity.

This Order takes effect on the dates specified herein.

**AUGUSTO D. DELA PEÑA**

Undersecretary, Organizational Transformation  
and Human Resources