



Republic of the Philippines  
Department of Environment and Natural Resources  
**Provincial Environment and Natural Resources Office**  
**MIMAROPA Region**

Bgy. Sta. Monica, Puerto Princesa City, Palawan

E-mail: [penropalawan@denr.gov.ph](mailto:penropalawan@denr.gov.ph)

Telfax No. (048) 433-5638 / (048) 433-5638

April 24, 2023

**MEMORANDUM**

**FOR** : The Regional Executive Director  
DENR MIMAROPA  
1515 DENR By the Bay Bldg., Roxas Boulevard,  
Barangay 668, Ermita, Manila

**THRU** : The OIC, ARD for Technical Services

**FROM** : The Provincial Environment and  
Natural Resources Officer

**SUBJECT** : **1<sup>ST</sup> QUARTER NARRATIVE REPORT ON THE COASTAL AND  
MARINE ECOSYSTEMS MANAGEMENT PROGRAM  
(CMEMP) FOR MALAMPAYA SOUND PROTECTED  
LANDSCAPE AND SEASCAPE (MSPLS), TAYTAY-SAN  
VICENTE, PALAWAN FOR CY 2023**

Respectfully forwarded is the memorandum dated April 13, 2023 of CENRO Taytay, Palawan pertaining to the above subject that serves as **Means of Verification (MoV)** for target activities of MSPLS for CY 2023.


Please be informed that the activities conducted in ENMRPA includes the following:


1. Monitoring of Coastal Habitats (coral reefs and mangroves)
2. Water Quality Monitoring
3. Maintenance and Protection of Coastal and Marine Ecosystems
  - a. Response Plan
  - b. Habitat surveillance of threats and damages
  - c. Maintenance of equipment
  - d. Conduct of direct activities
4. Capacity building
5. Social Marketing and Mobilization
6. Program Support and Management


For information and record.

For the PENRO



  
**RONIE B. GANDEZA**  
DMO IV/OIC-CHIEF TSD  
In-Charge, Office of the PENRO

 **DENR-PALAWAN  
PENRO-RECORDS  
RELEASED**

By   
Date **02 MAY 2023** CN **23-188**



Republic of the Philippines  
Department of Environment and Natural Resources  
Region IV- MIMAROPA  
**COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE**  
by the National Highway, Poblacion, Taytay, Palawan 5312  
Contact No.: 09265059335 (Globe) / 09121713889 (Smart)  
Email address: [cenrotaytay@denr.gov.ph](mailto:cenrotaytay@denr.gov.ph)

**DENR PENRO  
PALAWAN RECORDS  
RECEIVED**

April 13, 2023

MEMORANDUM

BY: [Signature]  
DATE: 04182023 CN 23-3501

FOR : The Provincial Environment and Natural Resources Officer- Palawan  
FROM : The Community Environment and Natural Resources Officer  
SUBJECT : **ACCOMPLISHMENT REPORT ON ACTIVITY PER WFP  
Malampaya Sound Protected Landscape and Seascape (MSPLS)**

<b>Activity:</b> Hiring of CMEMP Extension Officer				
<b>Performance Indicator:</b> Number of Coastal Extension				
<b>Frequency of submission:</b> Quarterly report pertaining to the target activity under Coastal and Marine Ecosystem Program				
<b>Current submission:</b> Memo report of For. III/Protected Area Superintendent/In Charge, CDS Clarissa P. Pador dated April 11, 2023 (CN 2393 in the eDATS) submitting the 1 <sup>st</sup> quarter narrative report of CMEMP Extension Officer for Protected Area Management Office of Malampaya Sound Protected Landscape and Seascape (MSPLS).				
<b>Attachment:</b> 1. Memo report of CMEMP E.O Maria Lilibeth E. Arojo dated April 2, 2023. 2. Accomplished template (6 pages) 3. Photo documentation (3 pages)				
<b>Gender &amp; Development (GaD) data</b>	Male = 0	Female = 1	LGBTQ+ = 0	Prefer not to say = 0
<b>Age Grouping</b>	60 and above	18-59	17 and below	TOTAL
	0	1	0	1
<b>Environmental Management System (EMS Compliance)</b>	✓ Compliant to <b>5S</b> organization techniques ( <b>SORT</b> – keep only necessary items, <b>SET IN ORDER</b> – arrange items to promote efficient workflow, <b>SHINE</b> – clean the work area so it is neat and tidy, <b>STANDARDIZE</b> – set standards for a consistently organized workplace and <b>SUSTAIN</b> – maintain and review standard) ✓ PENRO Memo No. 2023-001 dated February 21, 2023			

This is our **Means of Verification (MoV)** on the activity. Please confirm your receipt hereof. Thank you.

**DENR CENRO  
TAYTAY, PALAWAN  
RELEASED**  
BY: [Signature]  
DATE: APR 14 2023 CN 1438

CONRADO M. CORPUZ





Republic of the Philippines  
Department of Environment and Natural Resources  
MIMAROPA Region  
**PROTECTED AREA MANAGEMENT OFFICE**  
**MALAMPAYA SOUND PROTECTED LANDSCAPE AND SEASCAPE (MSPLS)**  
Taytay-San Vicente, Palawan  
Barangay Old Guinlo, Taytay, Palawan  
Email add: [pamomspls@gmail.com](mailto:pamomspls@gmail.com)/Contact #: 0938-786-3728 (SMART)



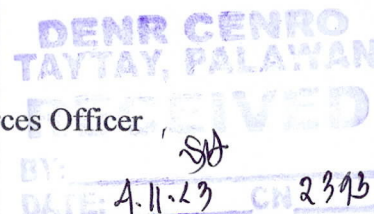
April 11, 2023

MEMORANDUM

FOR : The Community Environment and Natural Resources Officer  
Taytay, Palawan

FROM : The In Charge, CDS/Protected Area Superintendent  
Malampaya Sound Protected Landscape and Seascape (MSPLS)  
Taytay-San Vicente, Palawan

SUBJECT : **1<sup>ST</sup> QUARTER NARRATIVE REPORT ON COASTAL AND  
MARINE ECOSYSTEM MANAGEMENT PROGRAM (CMEMP)  
OF MALAMPAYA SOUND PROTECTED LANDSCAPE AND  
SEASCAPE (MSPLS), TAYTAY-SAN VICENTE, PALAWAN**

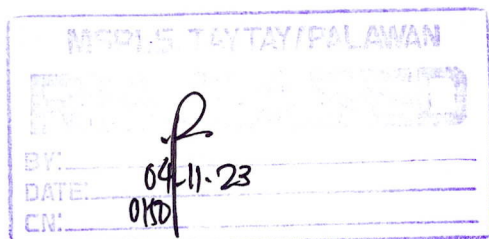


This pertains to the target activity on the Maintenance and Protection of Coastal and Marine Ecosystem (e.g. reduction of threats and enforcement)- Hiring of CMEMP Extension Officer under 001 Management of Coastal and Marine Resources/Areas of Malampaya Sound Protected Landscape and Seascape (MSPLS), Taytay-San Vicente, Palawan.

Respectfully forwarded is the memorandum dated April 2, 2023 of CMEMP Extension Officer Maria Lilibeth E. Arojo concerning the above subject. Attached are the narrative report, accomplished template and photo documentation of the said target activities.

For his information and record.

  
CLARISSA P. PADOR





Republic of the Philippines  
Department of Environment and Natural Resources  
MIMAROPA Region  
**PROTECTED AREA MANAGEMENT OFFICE**  
**MALAMPAYA SOUND PROTECTED LANDSCAPE AND SEASCAPE (MSPLS)**  
Taytay-San Vicente, Palawan  
Barangay Old Guinlo, Taytay, Palawan  
Email add: [pamomspls@gmail.com](mailto:pamomspls@gmail.com)/Contact #: 0938-786-3728 (SMART)



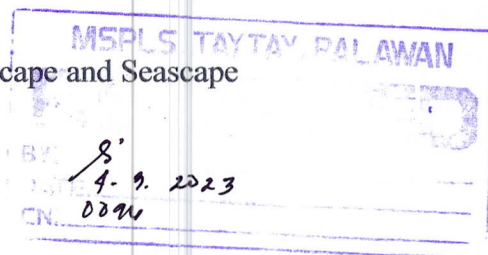
April 2, 2023

**MEMORANDUM**

FOR : The Protected Area Superintendent  
Malampaya Sound Protected Landscape and Seascape  
Taytay, Palawan

FROM : CMEMP Extension Officer  
MSPLS, Taytay, Palawan

SUBJECT : **NARRATIVE REPORT ON THE COASTAL AND MARINE ECOSYSTEMS MANAGEMENT PROGRAM FOR MALAMPAYA SOUND PROTECTED LANDSCAPE AND SEASCAPE (MSPLS), TAYTAY-SAN VICENTE, PALAWAN.**



In compliance with the target activity on the Coastal and Marine Ecosystems Rehabilitation Sub Program under Management of Coastal and Marine Resources/Areas for Malampaya Sound Protected Landscape and Seascape (MSPLS), Taytay, Palawan for the 1st quarter CY 2023.

Respectfully submitted is the template of the following activities on the above mentioned subject:

1. Monitoring of Corals, and Mangroves
2. Water Quality Monitoring
3. Maintenance and Protection of Coastal and Marine Ecosystems
  - a. Response Plan
  - b. Habitat surveillance of threats and damages
  - c. Maintenance of equipment
  - d. Conduct of direct activities
4. Capacity Buiding
5. Social Marketing and Mobilization
6. Program Support

Attached is the copy of narrative report with template and photo documentation.

For information and record.

  
**MARIA LILIBETH E. AROJO**





**COASTAL AND MARINE ECOSYSTEM MANAGEMENT PROGRAM  
NARRATIVE REPORT**

**Protected Area:** Malampaya Sound Protected Landscape and Seascape (MSPLS), Taytay-San Vicente, Palawan

**I. PHYSICAL ACCOMPLISHMENT**

**Component 1: MPA/MPA Strengthening and Networking under Management of Coastal and Marine Resources/Areas**

**A. Monitoring of corals, mangroves and seagrass**

**Corals**

Number of hectares Targeted for the Quarter:22.38 has.  
Total Hectares Monitored: 147.708 has.

LOCATION (Province/Municipality/Barangay)	NUMBER OF HECTARES MONITORED	CONDITION	THREATS IDENTIFIED
Malampaya Sound Protected Landscape and Seascape, Taytay, Palawan	147.708 has	Good	None

The Protected Area Management Office in collaboration with Malampaya Foundation Inc. conducted monitoring of corals on February 15-16, 2023 and March 7, 2023 within the jurisdiction of MSPLS in accordance with Technical Bulletin No. 2019-04. A total of three (3) established monitoring sites were monitored with a total area of 147.708 hectares representing the sixty (60) percent of the coral reef areas of MSPLS. The monitoring sites were located at Bancoro Reef, Bgy. Liminangcong; Barge Laot, Bgy. Tumbod; and Malapeña Island, Bgy. San Jose, Taytay, Palawan. The activity was conducted to monitor the current status of coral reefs within Malampaya sound.

Based on the result of monitoring, the coral cover of three (3) sites were in excellent condition where the Malapeña Island obtained the highest value of 91.14 followed by Barge Laot with a value of 87.43 and Bancoro Reef with 71.09 coral cover. A total of 1,119 reef fishes were recorded belonging to thirteen (13) families. The dominant fish recorded are the Pomacentridae (Damsel/Palata) followed by Caesionidae (Fusiliers/Dalagang bukid) groups. As compared to previous record, more fishes were recorded and increased coral cover were observed during the activity.

Number of hectares Targeted for the Quarter:303.41 has  
Total Hectares Assessed: 45.13 has

LOCATION (Province/Municipality /Barangay)	NUMBER OF HECTARES ASSESSED	CONDITION	THREATS IDENTIFIED
Malampaya Sound Protected Landscape and Seascape, Taytay, Palawan	45.13 has	Good	<ul style="list-style-type: none"><li>• Mangrove cuttings used for charcoal making.</li><li>• Improper disposal of</li></ul>





			waste materials.
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The PAMO-MSPLS personnel in coordination with Barangay Local Government Unit (BLGU) and partners conducted mangrove assessment from January 19, 2023 to March 9, 2023 within Abolan River, Bgy. Alacalian, and Sitio Ilaran, Bgy. Bato, Taytay, Palawan in accordance with BMB Technical Bulletin No. 2019-04.

During monitoring, a total of 45.13 hectares were assessed and monitored within the aforesaid areas as representation of the total hectares for each said barangays. Thirteen (13) species were identified namely *Acanthus ebraeatus*, *Bruguiera cylindrical*, *Bruguiera gymnorrhiza*, *Bruguiera parviflora*, *Bruguiera sexangula*, *Ceriops tagal*, *Excoecaria agallocha*, *Heritiera littoralis*, *Lumnitzera racemosa*, *Rhizophora apiculata*, *Rhizophora mucronata*, *Soneratia alba* and *Xylocarpus granatum*. Among these species, *Ceriops tagal* is the most dominant species monitored within the aforesaid areas. The mangrove area of the said sites were categorized as excellent condition in terms of percent crown cover.

To further protect and conserve the existing condition of the mangrove, regular patrolling and monitoring in the area in coordination with BLGU's is highly to prevent the illegal activities.

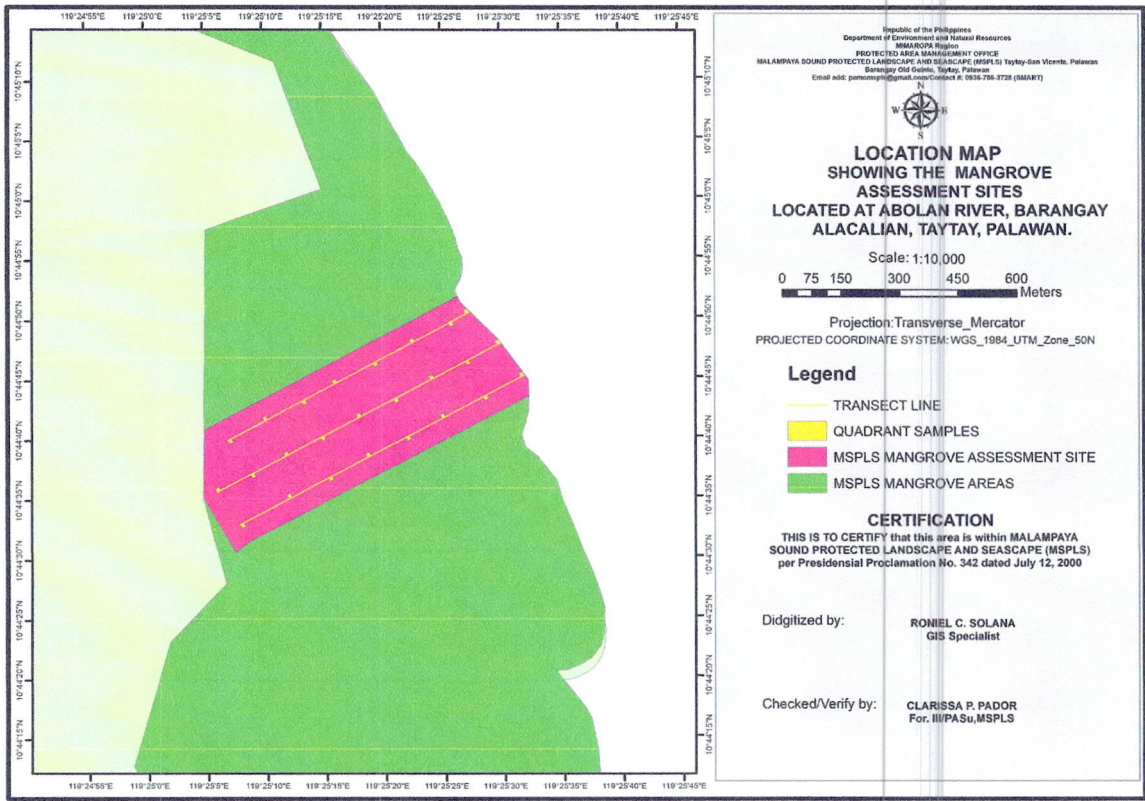


Figure I. Map showing the mangrove assessment site in Abolan River, Bgy. Alacalian, Taytay, Palawan.



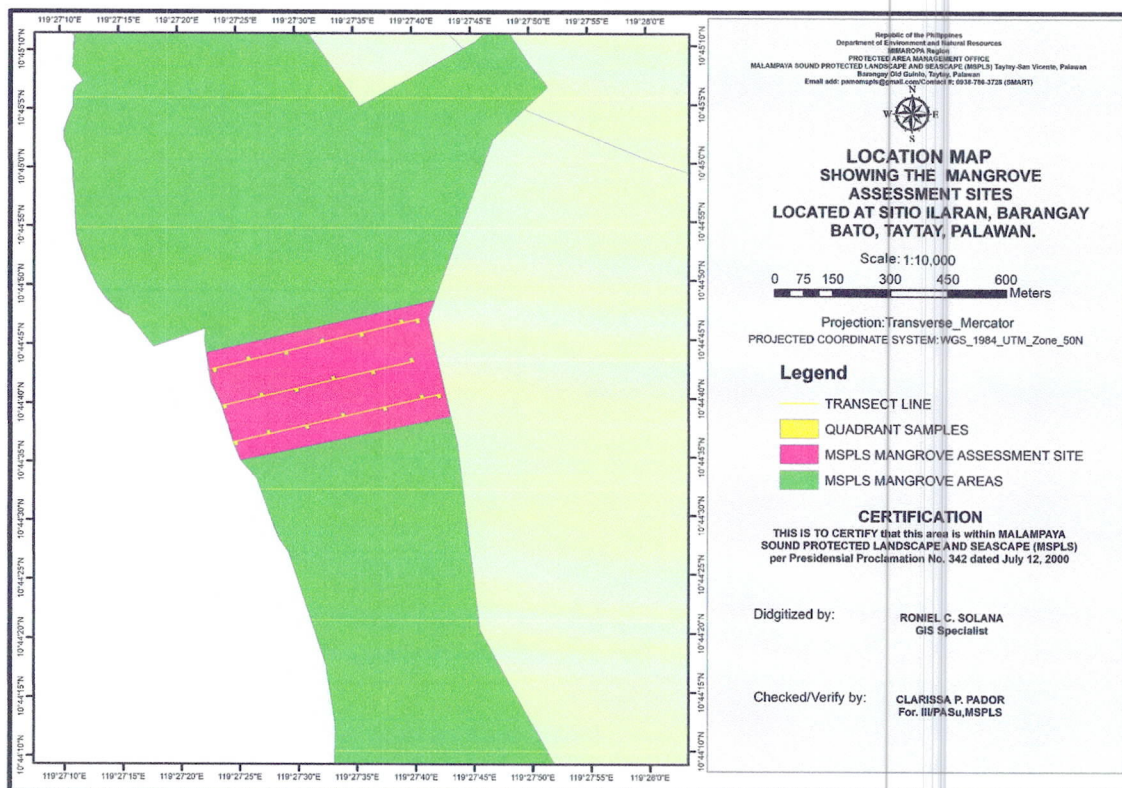


Figure 2. Map showing the mangrove assessment site in Sitio Ilaran, Bgy. Bato, Taytay, Palawan.

### Seagrass

Number of hectares Targeted for the Quarter:None  
Total Hectares Assessed: None

LOCATION (Province/Municipality/Barangay)	NUMBER OF HECTARES MONITORED	CONDITION	THREATS IDENTIFIED
None	The monitoring of seagrass will be conducted on 2 <sup>nd</sup> quarter of CY 2023 based on WFP.		

### B. Water Quality Monitoring

The PAMO-MSPLS conducted Water Quality Monitoring within 2-Ha Permanent Biodiversity Monitoring Area (PBMA) for dry season located in Barangay Banbanan, Taytay, Palawan. The activity is to conduct the water quality monitoring and documentation of threats in the established BAMS area of MSPLS. The result will be used in implementing science-based management interventions and in the formulation or updating of the respective Protected Area Management Plan and other Conservation Plan.

A total of three (3) sites was identified as the permanent sites of the said activity within the 2 kilometers BAMS area.

Site	pH	Tempe- rature	Dissolved Oxygenm (mg/L)	Conducti- vity (uS/cm)	Turbidity (NTU)	Salinity (ppt)	Total Dissolved Solid (g/L)	Oxidation Reduction Potential or ORP (m/V)	Trans- parency (cm)
BAMS 1	6.0	25.556	7.158	0.11	0.00	0.05	0.07	365.60	
BAMS 2	6.5	24.51	6.916	0.06	13.62	0.03	0.04	347.40	
BAMS 3	6.4	25.886	5.942	0.07	0.00	0.03	0.04	369.00	

Figure 3. Results of water quality monitoring using Multiparameter Checker in BAMS area of Bgy.Banbanan,Taytay, Palawan.





## C. Maintenance and Protection of Coastal and Marine Ecosystems

### 1. Response Plan

The activity will be conducted on the 3<sup>rd</sup> quarter of CY 2023 based on WFP.

### 2. Habitat surveillance of threats and damages

Areas Municipality/ Barangay/ General Location within PA	Number of sites	Threats Observed
Outer Malampaya Sound	5 sites	<ul style="list-style-type: none"><li>• Mangrove cuttings used for charcoal making.</li><li>• Improper disposal of garbage</li></ul>
Inner Malampaya Sound		

The activity was conducted on January 19 to March 9, 2023 within the coral and mangrove areas of MSPLS to monitored the threats and damages in the habitats area. The identified threats will be presented to the Protected Area Management Board (PAMB) of MSPLS for intervention and passing of resolution.

Awareness raising through Communication Education and Public Awareness (CEPA) campaign on the importance of mangroves that provide valuable protection for communities at risk from sea-level rises and severe weather events caused by climate change.

### 3. Repair and maintenance of equipment

#### Inventory of Equipments

Equipment	Number of Units	Year acquired/developed	Date last maintained	Condition
Speedboat	1	May 7, 2019	February 5, 2021	Since November 9, 2022 to date the engine of the speedboat is currently under repair of the authorized technician of ALS Marine Center Corporation, Tanza, Cavite. Likewise, the hull of the said speedboat was properly docked at DENR Compound, Honda Bay, Puerto Princesa City.

### 4. Conduct of direct activities

#### a. Coastal clean-up (garbage collection)

The PAMO-MSPLS conducted coastal clean-up activity on February 25, 2023 in Bgy. Liminangcong and on March 15, 2023 in Bgys. Old Guinlo and Tumbod, Taytay, Palawan simultaneously. The activity was initiated by Malampaya Foundation Inc in partnership with the department and participated by Barangay Officials, People's





Organization, Stakeholder's and PAMO-MSPLS personnel. A total of 524.5 kgs of garbage were collected consist of biodegradable and non-biodegradable waste materials. The collected garbage/waste was properly segregated and transferred in the Material Recovery Facility (MRF) of said barangays for proper disposition.

**b. Crown of Thorns extraction**

The PAMO-MSPLS conducted direct activities on the extraction of Crown-of Thorns (COTS) within the coral area of Malapeña Island, Bgy. San Jose, Taytay, Palawan. During the activity, the team collected COTS with sizes that ranged from 15-35 cm, approximately twenty five (25) COTS were collected during extraction process. The collected COTs were buried into a pit of a vacant lot adjacent to the Ranger Station located in Bgy. Tumbod, Taytay, Palawan, and made sure that the pit was deep enough so the COTS could be buries under a decent layer of soil without the risk that some spines were still sticking out.

Regular monitoring to control Crown-of-Thorns starfish and reduce coral mortality from outbreaks to protect high ecological and economic value coral reefs.

**Component 2: Capacity Building**

**a. Attendance to enhancement Training on NIPAS MPA Capacity Building Program**

On March 28-29, 2023, the PAMO-MSPLS with Conservation and Development Section (CDS) conducted the Capacity Building Training on Protected Area Policies for PAMO-MSPLS personnel. The activity was conducted based on the results of the Training Needs Assessment (TNA) for MSPLS-PAMO personnel conducted last year CY 2022 which identified the learning intervention needed by the PAMO personnel to effectively managed the protected area.

The overall objective of the activity is to continuous capacitation of the PAMO MSPLS personnel through the provision of training on salient provisions of DAO No. 2004-32 "PACBRMA and its governing guidelines, DAO 2007-17 "Special Use Agreement in Protected Areas (SAPA), RA 11038 ENIPAS and DAO 2019-05 as its Implementing Rules and Regulations (IRR) focusing on Section 5, PA Dis/Establishment Process; Sec 12, Environmental Impact Assessment, and Sec. 24, Facilities within PA.

**Component 3: Social Marketing and Mobilization**

**a. Conduct of Mid-term KAP related to coastal and marine protection, conservation and management.**

On March 27, 2023, staff and personnel of Malampaya Sound Protected Landscape and Seascape (MSPLS), Taytay, Palawan attended the cascading activity on Social Marketing and Knowledge, Attitude and Practices (KAP) orientation. The orientation was facilitated by Forest Technician II Lucila G. Candeje being the representative sent by DENR-MIMAROPA Region to Social Marketing and KAP Survey orientation-refresher on March 7-9, 2023 at Manhattan Suites, Dumaguete City.

FT II Candejeja discussed the Technical Bulletins 2017-10 and 2017-17 as guidelines on implementing the target on KAP survey for MSPLS. She also put emphasis on administering KAP questionnaires in *Tagalog* version, duties needed to interview, establishing survey etiquettes, do's and don't during interview and the need to have a survey plan prior to the conduct of KAP.



Communication letters for each barangay Local Government Unit (LGU) of MSPLS are being prepared to start the coordination and collation of data need for the determination of the number of respondents for interview.

**4. PROGRAM SUPPORT AND MANAGEMENT**

a. Hiring of CMEMP Extension Officer

CEO Name	Sex	Mobile Number	Email address	Components assigned	Major accomplishment/output/Contribution to CMEMP implementation
Maria Lilibeth E. Arojo	Female	09269424489 /0961347389	<a href="mailto:arojobeth@gmail.com">arojobeth@gmail.com</a>	<ul style="list-style-type: none"><li>MPA Management, Strengthening and Networking.</li><li>Capacity Building</li><li>Social Marketing and Mobilization.</li><li>Program Support and Management</li></ul>	<ul style="list-style-type: none"><li>Facilitated the conduct of monitoring on the target sites.</li><li>Facilitated the preparation of reports and other documents.</li><li>Technical assistance in the implementation of the target activities under CMEMP and PA.</li></ul>





## PHOTO DOCUMENTATION

### I. Assessment/Monitoring of habitats

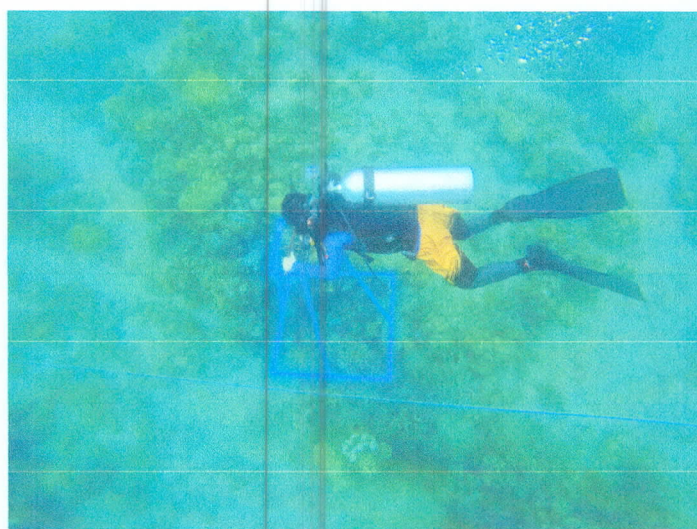
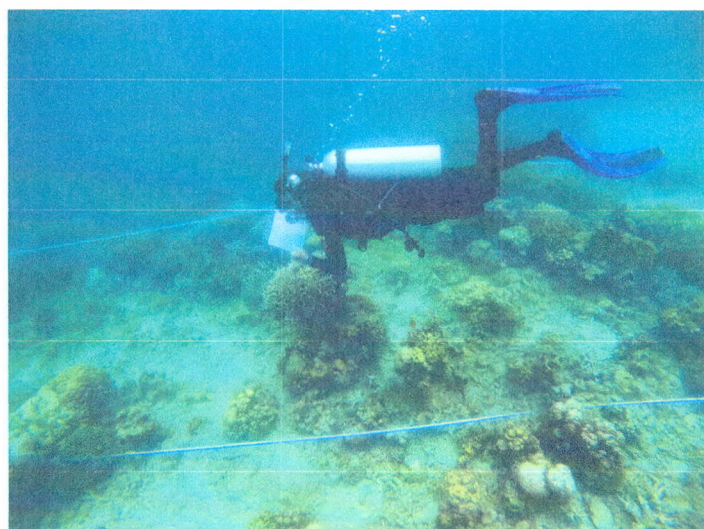
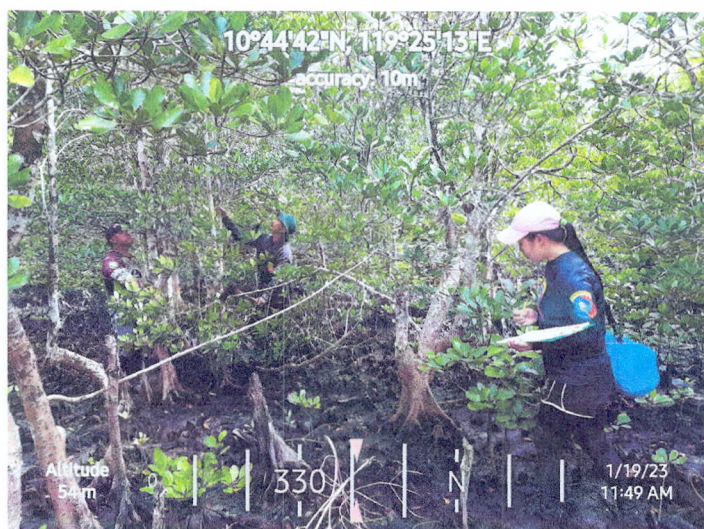


Figure 1. The PAMO-MSPLS conducted monitoring of corals and mangroves within MSPLS.

### II. Water Quality Monitoring

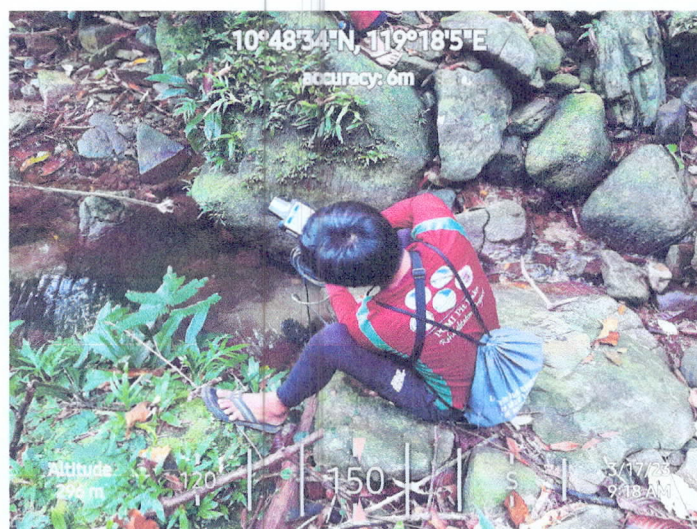


Figure 2. The PAMO-MSPLS during the conduct of water quality monitoring in BAMS area of Bgy. Banbanan, Taytay, Palawan.





### III. Maintenance and protection of coastal and marine ecosystems

#### a. Habitat surveillance of threats and damages



#### b. Conduct of direct activities

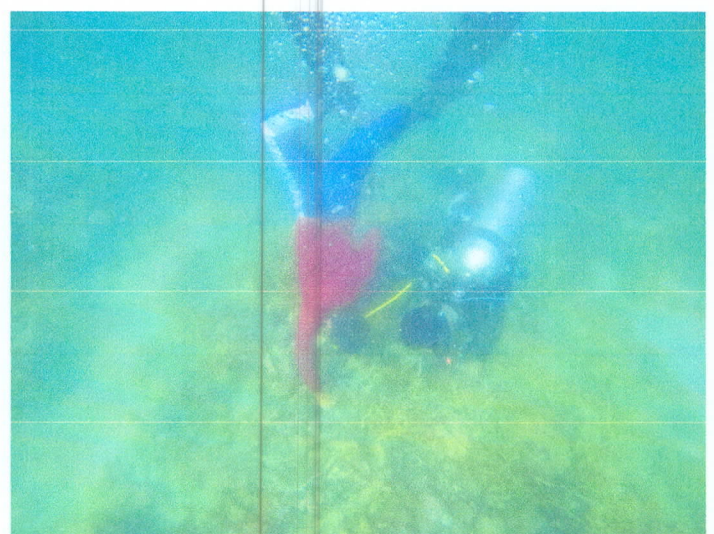


Figure 3. The PAMO-MSPLS during the conduct of habitat surveillance of threats and damages, coastal clean-up and COTS extraction within MSPLS





#### IV. Capacity Building

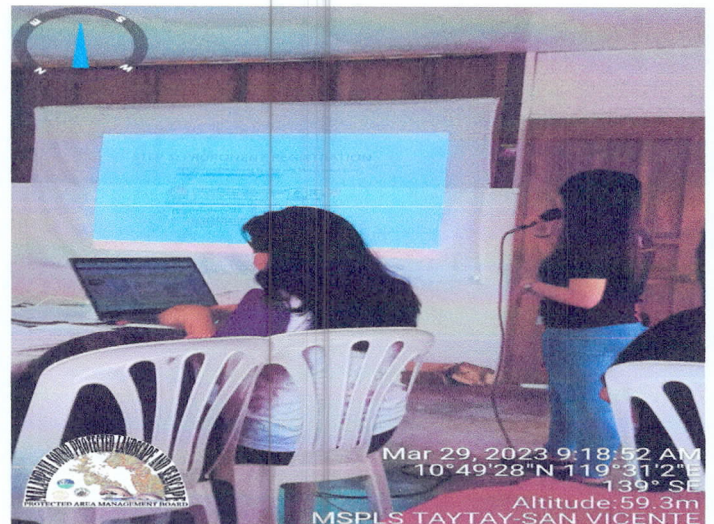


Figure 4. The PAMO-MSPLS personnel during the conduct of Capacity Building training held in Tay Lelong's Pension House, Poblacion, Taytay, Palawan.

#### V. Social Marketing and Mobilization



Figure 5. The PAMO-MSPLS personnel during the conduct of Mid-term KAP orientation held in CENRO-Taytay Conference Hall.

I hereby certify that the above photos are true and correct and taken during the conduct of activities within MSPLS under CMEMP target for CY 2023.

MARIA LILIBETH E. AROJO