



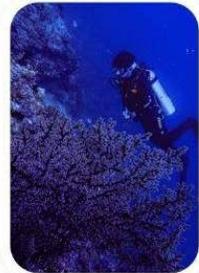
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# CMIEMP

## 2025 ANNUAL REPORT

COASTAL RESOURCE AND FORESHORE  
MANAGEMENT SECTION



## DENR 10 CMEMP ANNUAL REPORT, CY 2025

### EXECUTIVE SUMMARY

DENR Administrative Order No. 2016-26 institutionalizes the Coastal and Marine Ecosystems Management Program (CMEMP) as the Department of Environment and Natural Resources' national framework for the integrated and ecosystem-based management of coastal and marine resources. The program addresses the key drivers and threats to coastal and marine ecosystem degradation through coordinated, science-based, and participatory interventions. CMEMP aims to restore and sustain the ecological integrity of mangroves, coral reefs, seagrass beds, and associated habitats to ensure the continued delivery of ecosystem goods and services that support food security, climate change adaptation and mitigation, disaster risk reduction, and improved livelihoods of coastal communities.

CMEMP is operationalized through seven interrelated program components: *(1) Marine Protected Area Network Establishment and Strengthening; (2) Biodiversity-Friendly Social Enterprise Development; (3) Capacity Building; (4) Technical Assistance; (5) Knowledge Management; (6) Social Marketing and Mobilization; and (7) Monitoring and Evaluation*. These components serve as the core implementation mechanisms of the program, providing a structured approach to strengthening coastal governance, enhancing ecosystem resilience, and promoting sustainable socio-economic development. Collectively, they ensure the systematic delivery of technical support, institutional and community capability enhancement, evidence-based planning, stakeholder engagement, and performance tracking through adaptive management, as prescribed in the CMEMP guidelines.

In Region X, the DENR, through the Coastal Resources and Foreshore Management Section (CRFMS) under the Conservation and Development Division (CDD), implements CMEMP in accordance with these seven components. Consistent with program priorities, two NIPAS-designated Marine Protected Areas are identified as CMEMP target sites in the region: the Baliangao Protected Landscape and Seascape (BPLS) under PENRO Misamis Occidental, and the Initao–Libertad Protected Landscape and Seascape (ILPLS) under PENRO Misamis Oriental. Program interventions in these sites focus on strengthening protected area governance, improving management effectiveness, and achieving measurable environmental and socio-economic outcomes through continuous monitoring, evaluation, and adaptive management.

During the CY 2025 CMEMP implementation, DENR Region X significantly strengthened its stakeholder engagement by forging strategic partnerships with national government agencies, the private and religious sectors, academe, media, and civic organizations across the region. These collaborations were instrumental in the

successful execution of CMEMP activities, particularly in social marketing and mobilization, which reached and engaged thousands of participants, fostering broader awareness and active participation in coastal and marine conservation.

A key practice that contributed to effective program implementation was the institutionalization of levelling-off, midyear, and year-end meetings by the DENR Regional Office CDD–CRFMS, ensuring that co-implementers in field offices were well-guided, aligned, and able to carry out CMEMP activities coherently and efficiently.

Further enhancing regional capacity, DENR Region X hosted the NIPAS–MPA Capacity Building on Module 4: Climate Change Planning for Coastal and Marine Environment from October 1–11, 2025, in partnership with the Biodiversity Management Bureau (BMB) and the Protected Area Management Office (PAMO) of the Liangan–Lipatan River Mangrove Swamp Forest Reserve. The activity brought together participants from Regions IX, X, XI, XII, XIII, and BARMM, along with mentors and facilitators from national and regional offices, demonstrating Region X’s leadership in advancing climate-responsive and science-based coastal and marine management nationwide.

Through these efforts, DENR Region X continues to demonstrate leadership in integrated coastal and marine management, ensuring that program interventions not only strengthen ecosystem resilience but also deliver tangible socio-economic benefits to coastal communities. By combining science-based approaches, stakeholder collaboration, and capacity-building initiatives, the region reinforces its commitment to the sustainable management of coastal and marine resources, setting a model for effective implementation of CMEMP.

Moreover, the DENR-X institutionalized the Project TRANSFORM for Lanao del Norte province through the conduct of Localized MOA Signing and Launching Program which marks the commencement of the four pilot TRANSFORM projects in the province - 1) Kapaligiran Alagaan Para Sa Kalusugan (KAPK) Project, 2) Nature to Wealth (N2W) Project, 3) Landscape-2-Seascape (L2S) Project, and 4) Taytayan Para Sa Kinaiyahan ug Kalamboan (TPSKK) Project.

## HIGHLIGHTS OF ACCOMPLISHMENTS

### 1. Marine Protected Area Management, Strengthening and Networking

1.1 Monitoring of Mangroves, Corals, and Seagrass within the two (2) NIPAS MPAs: Initao-Libertad Protected Landscape and Seascape (ILPLS) and Baliangao Protected Landscape and Seascape (BPLS)

#### A. Seagrass Monitoring Results

#### PENRO Misamis Occidental - PAMO Baliangao Protected Landscape and Seascape

The Baliangao Protected Landscape and Seascape – Protected Area Management Office (BPLS-PAMO) conducted a seagrass monitoring assessment in the Baliangao Protected Landscape and Seascape (BPLS) in CY 2025 in support of the targets of A.03.d3 of the Coastal and Marine Ecosystem Management Program (CMEMP) under Marine Protected Area Management, Strengthening and Networking. The activity followed the prescribed Biodiversity Monitoring System (BMS) protocols under BMB Technical Bulletin (TB) 2019-04 and BMB TB 2017-05 and covered four (4) permanent monitoring stations within the seagrass ecosystem.

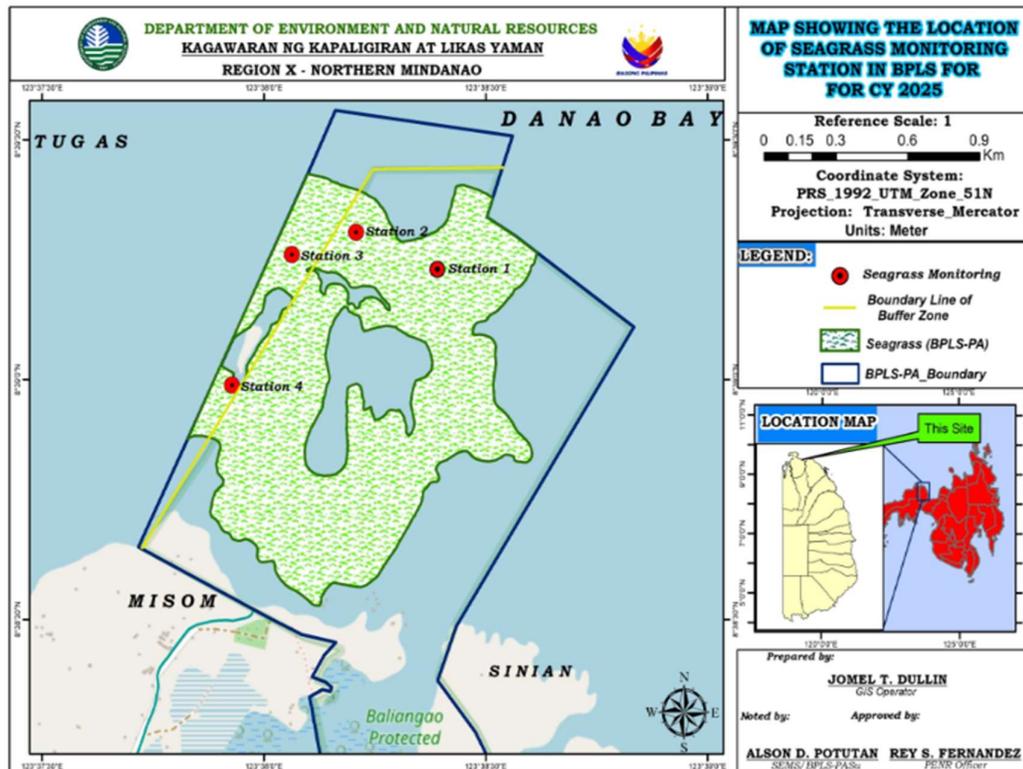


Figure 1. Map Showing the Coral Permanent Monitoring Station in BPLS - PA

Results indicate an overall seagrass cover of 62.20%, classified as “Good” based on the criteria set by Amran (2010). Among the stations, Station 3 recorded the highest mean seagrass cover at 76.66%, while Station 4 exhibited the lowest at 35.45%. The

seagrass community was dominated by *Thalassia hemprichii* (35.33%) and *Enhalus acoroides* (34.65%), with other species occurring at lower proportions. Algae and epiphyte covers were minimal, averaging 3.01% and 2.17%, respectively.

A total of 14 macroinvertebrate species were documented across all monitoring stations. The most abundant species were *Protoreaster nodosus*, *Strombus labiatus*, and *Diadema setosum*, while *Culcita* sp., *Stichopus* sp., and *Bohadschia marmorata* were the least observed.

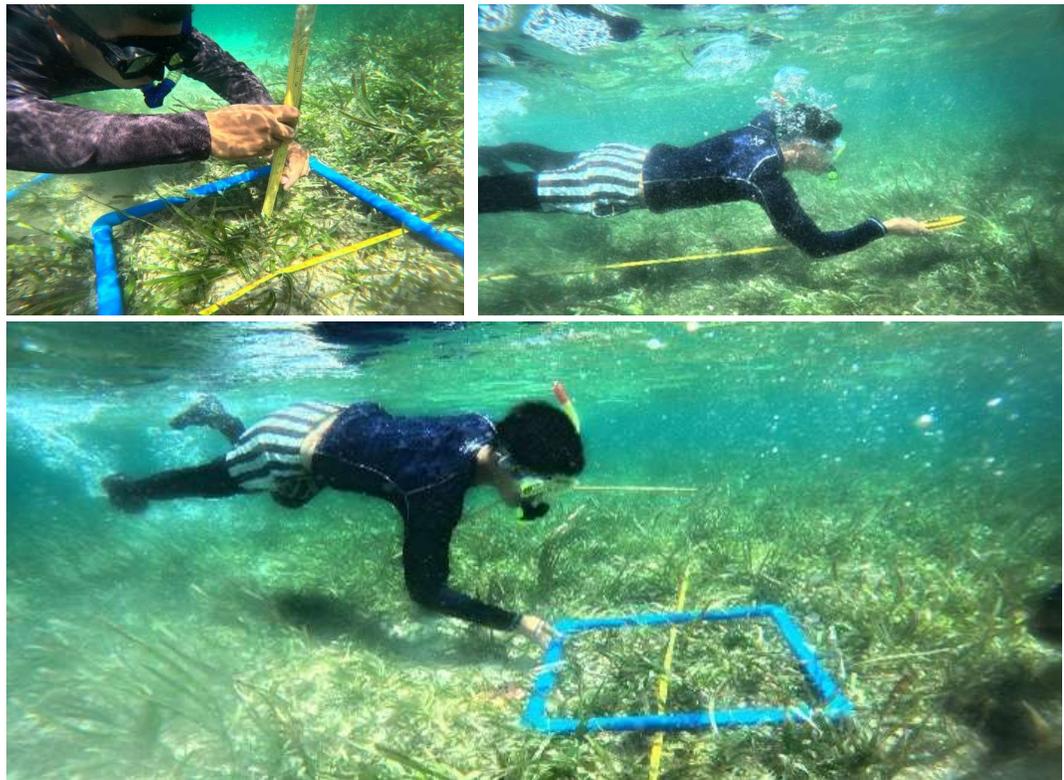


Figure 2. Underwater photos the laying the 50 m transect line during the conduct of seagrass monitoring at BPLS.

Overall, the monitoring results show that the seagrass ecosystem in BPLS remains in good condition, reflecting stable habitat structure and associated fauna. The assessment provides updated scientific information essential for tracking ecosystem trends, supporting adaptive management, and guiding conservation and protection efforts within the protected area.

### ***B. Mangrove Monitoring Result***

The Baliangao Protected Landscape and Seascape (BPLS) is a 315.50-hectare protected area in Misamis Occidental that encompasses coral reefs, seagrass beds, and mangrove ecosystems along the Mindanao Sea. Declared a protected area in 2000 under the NIPAS Act (RA 7586) and later legislated under RA 11038 in 2017, BPLS is recognized as the 104th Key Biodiversity Area and forms part of the country's Marine Key Biodiversity Areas. Mangrove ecosystems within BPLS play a critical role in

biodiversity conservation, coastal protection, climate resilience, and the sustenance of local livelihoods.

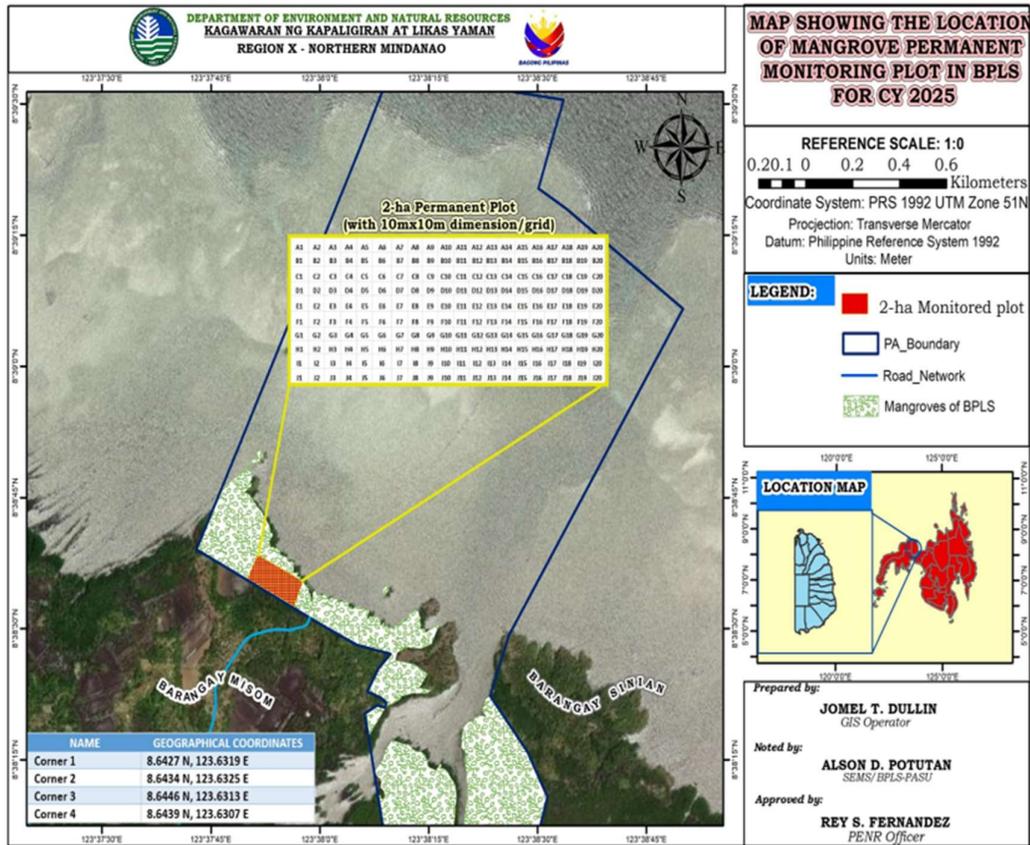


Figure 3. Map showing the location of mangrove permanent plot in BPLS for CY 2025

A baseline mangrove assessment conducted by the BPLS Protected Area Management Office (PAMO) in 2023 covered approximately 91.50 hectares of mangrove forest. The assessment documented 29 mangrove species, consisting of 18 major, 2 minor, and 9 associate species, with dominance of the family Rhizophoraceae. The mangrove area registered a crown cover of 58.67%, classified as “Good” based on PRCA (2004) criteria, indicating generally healthy forest conditions. Notable structural characteristics included the largest recorded Diameter at Breast Height (DBH) of 59 cm for *Heritiera littoralis* and the tallest mean height of 19 meters for *Sonneratia ovata*.





Figure 4. *Geotagged photos on the measurement of the diameter at breast height (DBH) using the transect tape during the conduct of Mangrove Monitoring in BPLS on April 2 and 22, 2025.*

In 2024, a permanent 2-hectare mangrove monitoring site was established within BPLS to support long-term ecosystem monitoring. The site recorded 27 mangrove species and exhibited a crown cover of 51.42% during the first semester and 51.16% during the second semester, both categorized as “Good” based on PRCA (2004). Major mangrove species dominated the site, comprising 70% of species composition, followed by associate species at 22% and minor species at 8%.

A total of 1,897 trees were recorded within the monitoring site, with an overall mean DBH of 57.26 cm and mean total height of 9.42 meters, classified as “Excellent” under the criteria of Deguit et al. (2004). Regeneration assessment documented 1,945 regenerants representing 13 species, with a density of 9.73 regenerants per square meter, indicating a “Good” regeneration status. Overall, the results demonstrate that the mangrove ecosystem of BPLS remains in good condition, with stable structure and regeneration, providing a strong foundation for continued conservation, adaptive management, and climate resilience initiatives.

### ***C. Coral Reef Monitoring Result***

The Baliangao Protected Landscape and Seascape – Protected Area Management Office (BPLS-PAMO) conducted a coral reef monitoring assessment in the Baliangao Protected Landscape and Seascape (BPLS) during the second quarter of CY 2025 in support of the targets of A.03.d3 of the Coastal and Marine Ecosystem Management Program (CMEMP) under Marine Protected Area Management, Strengthening and Networking. The activity was undertaken in accordance with the Biodiversity Monitoring System (BMS) protocols prescribed under BMB Technical

Bulletin (TB) 2019-04 and BMB TB 2017-05 and covered three (3) permanent coral monitoring stations within the protected area.

Results of the assessment showed an overall hard coral cover of 65.41%, which is classified as Category A (Excellent) based on the coral cover criteria established by Licuanan et al. (2017). Among the monitoring stations, Station 3 recorded the highest hard coral cover at 71.37%, followed by Station 2 at 64.60%, while Station 1 exhibited the lowest cover at 60.27%. The relatively higher coral cover in Station 3 is attributed to greater structural complexity and dominance of *Porites* species, while lower values in Stations 1 and 2 may be influenced by the presence of sand, pavement, and rubble substrates.

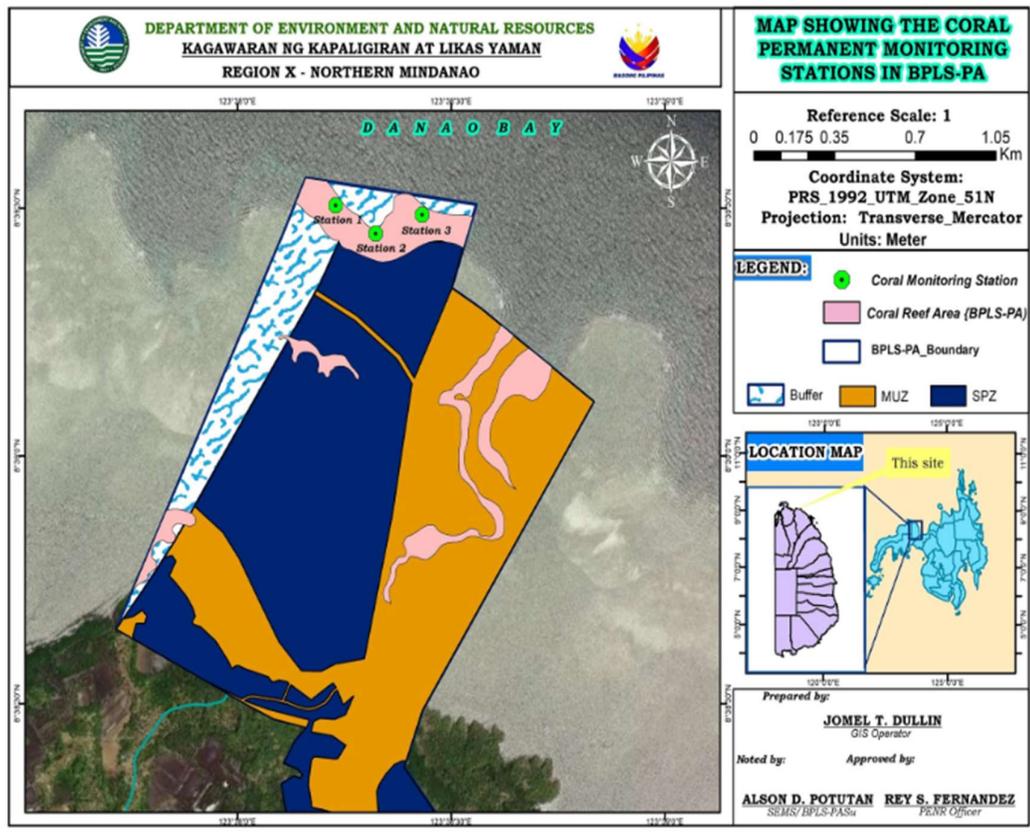


Figure 5. - Map showing the Coral Permanent Monitoring Stations in BPLS

A total of 46 Taxonomic Amalgamation Units (TAUs) were recorded across the monitoring stations, indicating Category A coral genetic diversity based on the criteria of Licuanan et al. (2019). The coral community was dominated by *Porites* branching (30.50%), followed by *Heliopora* (17.53%) and *Porites* massive (5.20%). Several genera were minimally represented, including *Euphyllia*, *Galaxea*, *Symphyllia*, and other branching and foliose forms.



Figure 6. *Underwater photos taken during the conduct of coral monitoring assessment in Baliangao Protected Landscape and Seascape.*

Benthic composition analysis revealed that Hard Coral Cover was the dominant substrate component at 65.14%, followed by Sand, Pavement, and Rubble (15.35%), Macroalgae (9.21%), and Damaged Dead Corals (7.00%), with other categories occurring at lower proportions. Temporal analysis indicates a slight decline in hard coral cover from 68% in CY 2024 to 65.41% in CY 2025, which may be associated with cumulative environmental stressors such as thermal stress, water quality issues, and physical disturbances.

Overall, the CY 2025 coral monitoring results indicate that the coral reef ecosystem of the Baliangao Protected Landscape and Seascape remains in excellent condition, with high coral cover and genetic diversity. The assessment provides updated scientific data essential for tracking reef condition, guiding adaptive management, and strengthening conservation and protection efforts to enhance coral reef resilience within the protected area.

### *c.1. Associated Reef Fishes*

The assessment of associated reef fish assemblages in the Baliangao Protected Landscape and Seascape (BPLS) was conducted in conjunction with the coral reef monitoring activity during the second quarter of CY 2025, in support of the targets of A.03.d3 of the Coastal and Marine Ecosystem Management Program (CMEMP). The Fish Visual Census (FVC) method was employed using the same permanent transect lines established for coral reef assessment, following standard protocols outlined by English et al. (1997) and relevant fish identification references.

A total of 2,308 individual reef fishes were recorded across all monitoring stations. Fish assemblages were functionally classified into major, target, and indicator species to facilitate ecological interpretation and management relevance. Major species comprised the largest proportion with 1,154 individuals, reflecting their critical ecological role in maintaining trophic balance and reef resilience. Target species accounted for 1,019 individuals, indicating sustained fishery resources within the protected area. Indicator species, which are closely associated with live coral habitats, were the least abundant with 135 individuals, serving as sensitive indicators of reef condition.

Indicator species registered a density of 270 individuals per hectare, categorized as “Poor” based on Hilomen et al. (2000), with a total biomass of 4.45 mt/km<sup>2</sup>, classified as “Very Low” following Nanola et al. (2006). These species were represented by three (3) fish families, with *Chaetodon citrinellus* as the most abundant and *Arothron reticularis* as the least observed. In contrast, target species exhibited a density of 2,038 individuals per hectare, classified as “Moderate”, and a biomass of 37.92 mt/km<sup>2</sup>, falling under the “High” category. Major species showed a density of 2,308 individuals per hectare and a biomass of 29.70 mt/km<sup>2</sup>, both classified as “High”, underscoring their ecological importance in the reef system.

Species diversity analysis yielded a Shannon diversity index value of 4.46, categorized as “Very High”, indicating a structurally complex and ecologically balanced reef fish community with high species richness and even distribution. Overall, the results suggest that the reef fish assemblages in BPLS remain diverse and functionally intact, although the low density and biomass of indicator species highlight the need for continued protection, strict enforcement of management measures, and sustained monitoring to ensure long-term reef health and ecosystem resilience.

### ***PENRO Misamis Oriental - Initao -Libertad Protected Landscape and Seascape***

In 2025, the PENRO Misamis Oriental, through the Protected Area Management Office of ILPLS (PAMO-ILPLS), successfully completed 100% of coral reef and seagrass monitoring activities at all permanent stations within the NIPAS-MPA, underscoring the agency’s commitment to ecosystem management and protection.

#### ***A. Seagrass Habitat Monitoring***

Seagrass coverage in ILPLS has undergone notable changes from 2013 to 2025. Beginning at 10.33% in 2013, coverage steadily increased, peaking at 62.18% in 2020, attributed to improved water quality and effective management interventions. However, subsequent declines resulted primarily from increased sedimentation due to seasonal rains and human activities such as boat anchoring.

In 2025, seagrass cover recorded a slight recovery to 41.38% from the previous year’s 39.1%. While this is below the 2020 peak, it reflects a relatively stable and moderately healthy ecosystem that continues to provide essential ecological functions, including habitat provision and coastal protection. These trends highlight the success of restoration efforts while underscoring ongoing challenges from natural and anthropogenic pressures. Continued conservation, sediment management, and community engagement remain vital to sustaining seagrass resilience.

#### ***B. Coral Habitat Monitoring***

The 2025 assessment of coral reefs in ILPLS shows an average live hard coral cover of approximately 38%, indicating fair to good reef condition overall. Healthier coral assemblages were observed in Sites 5, 6, and 7, with cover ranging from 50% to 60%, whereas Sites 1 to 4 exhibited lower coral cover between 20% and 28%, suggesting localized impacts such as pollution, fishing pressure, and sediment accumulation.

Algae covered roughly 33% of the reef, a significant factor as excessive algal growth competes with corals for space and inhibits coral recruitment, often linked to nutrient enrichment or reduced populations of algae-grazing fish. Bare substrate accounted for about 14%, representing areas of recent coral mortality or potential sites for recolonization, while other sessile organisms like sponges made up 9%, indicating reef biodiversity.

The reef supports around 45 coral species, dominated by *Acropora*, *Porites*, and *Montipora*, key contributors to reef structure and resilience. Historical data reveal substantial coral cover improvement from 30% in 1994 to nearly 53% in 2022, attributed to strengthened protection measures. A sharp decline to 38% in 2024, likely due to environmental stresses such as storms and water quality changes, was followed by a slight recovery in 2025. These findings highlight the reefs' moderate health and the critical need for continued management, including protection from destructive activities, maintenance of herbivorous fish populations, and ongoing monitoring to support reef recovery.

### ***C. Associated Reef Fishes***

The 2025 evaluation of reef fish populations within ILPLS reflects a generally stable and resilient community with positive trends in abundance, though biomass recovery remains gradual. Fish density increased steadily from 989.7 individuals per 1,000 m<sup>2</sup> in 2020 to a peak of 1,095 in 2024, followed by a minor decline to 1,087 in 2025. This pattern suggests improving habitat quality and effective management reducing fishing pressure. Conversely, fish biomass experienced a significant decrease from 22.5 kg/1,000 m<sup>2</sup> in 2020 to about 10.15 kg in 2022, likely due to habitat fluctuations and reductions in larger, mature individuals.

Early signs of recovery emerged with biomass rising to 12.78 kg in 2024 and 13.71 kg in 2025, though still below 2020 levels, indicating ongoing population rebuilding. Key families contributing to abundance and biomass include Pomacentridae (damselfish), Labridae (wrasses), Acanthuridae (surgeonfish), Chaetodontidae (butterflyfish), and Scaridae (parrotfish), with Pomacentrids numerically dominant. The presence of commercially important species among these families underscores both ecological and economic significance. These results emphasize the importance of sustained conservation, strict fisheries regulation enforcement, habitat protection, and continuous monitoring to ensure full recovery and long-term ecological balance.

### ***1.2 Water Quality Monitoring within Legislated NIPAS-MPAs***

Pursuant to Republic Act 9275 or the "Philippine Clean Water Act of 2004" guided by DAO 2016-08 "Water Quality Guidelines and General Effluent Standards" and DAO 2021-19 "Updated Water Quality Guidelines and General Effluent Standards for Selected Parameters", DENR-10 through the CDD-CRFMS accomplished the CY 2025 target of monitoring the water quality of NIPAS-MPAs BPLS and ILPLS (dry and wet season). The activity shall provide the necessary data and analysis to develop best suited management strategies in achieving the CMEMP goal of improving the water quality of the NIPAS-MPAs. The waters of the NIPAS-MPAs were analyzed in terms of the following parameters with subsequent standard/water body qualification based on the DAO 2016-08 and 2021-19, to wit:

### **A. Baliangao Protected Landscape and Seascape**

The WQMA was conducted during both the dry and wet seasons of CY 2025 across three (3) established permanent monitoring stations, each representing key management zones: the River Mouth/Sinian River, Strict Protection Zone (SPZ) at Brgy. Misom, and Multiple Use Zone (MUZ) at Brgy. Sinian. A total of eleven (11) water quality parameters were assessed, including dissolved oxygen, temperature, salinity, conductivity, pH, color, nitrate, phosphate, total suspended solids (TSS), turbidity, and fecal coliform.

Results indicate that the majority of physicochemical parameters across all stations complied with the water quality standards prescribed under DAO No. 2016-08 and DAO No. 2021-19 for Class SA waters. Dissolved oxygen, temperature, pH, nitrate, and phosphate levels remained within acceptable limits during both monitoring periods, reflecting generally good water quality and favorable conditions for aquatic life. Seasonal variations observed in temperature and dissolved oxygen followed expected natural patterns influenced by climatic and hydrological factors.

However, elevated levels of fecal coliform were recorded during the dry season, particularly in river mouth stations, exceeding the allowable limits for Class SA waters. These results suggest localized contamination likely associated with domestic wastewater inputs, improper solid waste disposal, and reduced dilution during periods of low water flow. In addition, total suspended solids exceeded the prescribed standard in several stations, especially during the wet season, indicating increased sediment transport and runoff during rainfall events.

Overall, the CY 2025 WQMA confirms that the waters of BPLS generally maintain good environmental quality and remain suitable for their designated uses under Class SA and Class SB classifications. Nevertheless, the presence of elevated fecal coliform and suspended solids highlights the need for strengthened management interventions, including intensified information and education campaigns, improved solid waste management practices, enhanced community participation, and continued regular water quality monitoring to safeguard the ecological integrity of the protected area.

### **B. Initao-Libertad Protected Landscape and Seascape**

DENR-10, through PENRO Misamis Oriental and the PAMO-ILPLS, successfully conducted the CY 2025 water quality monitoring activities during the dry and wet seasons that aimed to assess the status and trends of coastal and marine water quality within the ILPLS, covering eight key physicochemical and microbiological parameters, in compliance with DENR Administrative Order (DAO) No. 2016-08 and DAO No. 2021-19.

Results of the monitoring indicated that most stations generally met the prescribed standards for Class SA and Class SB water bodies, particularly for color and dissolved oxygen (DO) from CY 2023 to 2025. All stations complied with the color standards for both dry and wet seasons. DO levels consistently met the minimum requirement of 6 mg/L across all stations, except during the wet season of CY 2025, where Stations 1, 8, 10, and 13 registered values below the standard. However, fecal coliform concentrations in several monitoring stations exceeded allowable limits in

selected years, with notable exceedances observed from CY 2023 to 2025, particularly during wet season conditions.

The assessment further concluded that water runoffs from adjacent creeks and rivers during the wet season significantly influenced fluctuations in water quality parameters, particularly fecal coliform levels. Stations 1, 2, 3, 8, 11, 12, 13, 14, and 15 exceeded desired coliform counts in CY 2024, while Station 1 exceeded the standard in CY 2025. These findings underscored the impact of land-based activities and household discharges near waterways draining into the NIPAS Marine Protected Area.

In response, PENRO Misamis Oriental directed PAMO-ILPLS to coordinate with the Local Government Units (LGUs) of Initao and Libertad to conduct an inventory of households located within legal easements of creeks and rivers draining into the ILPLS. PAMO-ILPLS was also instructed to intensify Communication, Education, and Public Awareness (CEPA) campaigns pursuant to the Local Government Code of 1991. Further recommendations include sustaining CEPA activities, promoting regular coastal clean-ups, encouraging the enforcement of Section 51 of RA 1067 and RA 9003 by concerned LGUs, and maintaining regular water quality monitoring to ensure long-term protection and sustainable management of the ILPLS coastal and marine resources.

### 1.3 Marine Protected Areas Networking (NIPAs-locally managed, NIPAS-NIPAS)

The establishment and strengthening of Marine Protected Area Networking (MPAN) under the guidelines of the Biodiversity Management Bureau (BMB) aims to enhance the effectiveness of coastal and marine resource conservation through collaborative management. MPA networking facilitates the integration of individual MPAs into a cohesive system that promotes ecological connectivity, resource sharing, and coordinated enforcement among neighboring protected areas. This approach not only optimizes biodiversity protection but also strengthens community participation, capacity building, and sustainable livelihood opportunities for stakeholders. By linking MPAs, the network improves resilience against environmental threats and supports the long-term sustainability of marine ecosystems, in alignment with national conservation priorities and international commitments.

For CY 2025, DENR-10 achieved 100% of its targets in supporting the sustainability and strengthening of key Marine Protected Area Networks (MPANs) in the region. This includes support for the sustaining of the Danao Bay MPAN under PENRO Misamis Occidental, as well as strengthening for the Eastern Iligan Bay MPAN under PENRO Lanao del Norte and the Eastern Iligan Bay Alliance under PENRO Misamis Oriental. The accomplishments for each MPA network are summarized below:

*A. Sustaining of the Danao Bay MPAN under PENRO Misamis Occidental*

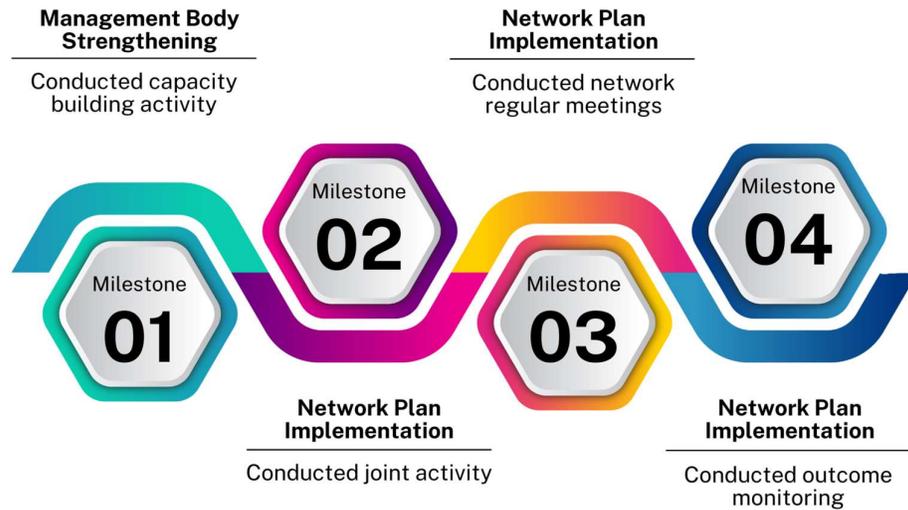


Figure 7. *The target and accomplished milestone activities for the sustaining of Danao Bay MPAN*

The Danao-Bay MPAN successfully achieved 100% completion of the Sustaining Phase of MPAN Networking, marked by the accomplishment of key milestone activities.

For the Management Body Strengthening, CENRO Oroquieta City under PENRO Misamis Occidental conducted a Capacity Building Activity on Sustainable Financing, Tourism Development, and Communication for MPAs on August 27–28, 2025 at the Municipal Covered Court in Plaridel, Misamis Occidental. This training was initiated in response to the Competence Assessment Tool results, which showed low scores in Financing (18.42%) and Planning, Enforcement, and M&E (15.93%).

Three resource speakers enriched the activity:

1. Dr. Leny Q. Añasco, Campus Director of USTP Panaon, underscored the role of awareness and education in effective conservation;
2. Ms. Cristy O. Saplot, Provincial Tourism Officer, discussed sustainable financing mechanisms strengthened by strategic marketing; and
3. EnP. Grace V. Villanueva, Director of the Misamis University Community Extension Program, presented a people-centered and environmentally sound roadmap for community-based ecotourism.

Overall, the activity significantly enhanced the capacity of the Management Board, supporting strengthened governance and long-term sustainability of the Danao-Bay MPAN.

In line with the network plan implementation, the Management Body successfully conducted a joint area patrolling and monitoring activity covering 47.53 kilometers of coastal waters across Sinian, Misom, Landing, Tugas in Baliangao, and Bato, Danao in Plaridel. The patrol found no illegal activities or unauthorized fishing within the protected marine areas, including critical habitats along Naipos and Itusan Rivers. However, Tinuguan Beach Resort was observed continuing operations despite

a Cease-and-Desist Order, occupying timberland within the Polo-Pitugo Marine Bird Sanctuary.

Additionally, murky runoff from the Naipos River was noted, potentially linked to agricultural runoff from Brgy. Bato, which warrants further investigation for potential water quality risks. While no illegal fishing was observed inside the Protected Area, legal fishing activities were noted outside the zone in Danao Bay, with fishing gear compliant with municipal fishery regulations.

Throughout CY 2025, management body meetings were also held in both the 1st (March 13, 2025) and 2nd semesters (August 27, 2025), where the team discussed and planned key activities for the MPAN. An outcome monitoring was also conducted, evaluating the Management Body's progress and accomplishments throughout the MPAN implementation.

*B. Strengthening of the Eastern Iligan Bay MPAN under PENRO Lanao del Norte*

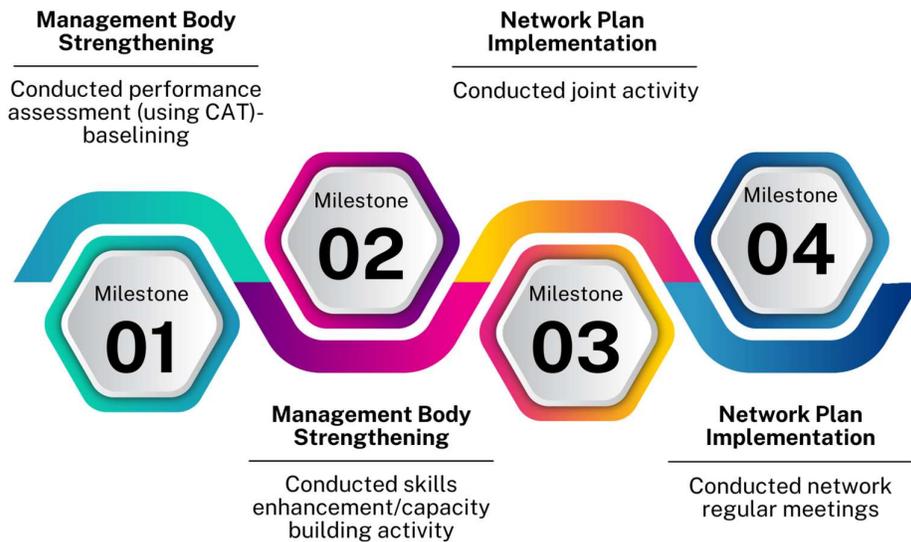


Figure 8. *The target and accomplished milestone activities for the strengthening of Eastern Iligan Bay MPAN in Lanao del Norte.*

The Eastern Iligan Bay of Lanao del Norte Marine Protected Area Network (EIBLDN-MPAN) successfully delivered all Program, Activity, and Project (PAP) targets for CY 2025, achieving 100% accomplishment with the support of PENRO Lanao del Norte. Early in the year, the network conducted its regular meeting and Competency Assessment Toolkit (CAT) session on May 30, 2025, with 17 MPA/N managers participating—10 Senior Managers (Category B), 6 Technical Specialists (Category C), and 1 Skilled Worker (Category D). Results showed that 53% of participants demonstrated Moderate competency, 29% Low, and 18% High, with Planning emerging as the strongest component (67%) and Monitoring & Evaluation as the weakest (25%). While attitudes toward learning scored relatively high at 43%, the skills component remained low at 18%, underscoring the need for targeted capacity-building. This assessment guided the identification of priority activities such as benchmarking, strategic planning, inter-LGU collaboration, coastal law enforcement planning, and M&E training.

In line with these needs, the network completed a skills enhancement training on September 2–3, 2025, covering marine law enforcement, MPA monitoring, and resource protection, with technical assistance from DA-BFAR. Joint activities were also undertaken, including a simultaneous coastal clean-up on September 19, 2025, during which CENRO Iligan collected 120 sacks (approximately 280 kg) of waste, complemented by parallel clean-up efforts in the municipalities of Bacolod and Kauswagan.

The 3rd regular network management meeting was accomplished ahead of schedule on September 2, 2025. Key discussions included updates on the 2023 Memorandum of Agreement (MOA), which was returned by the DENR Central Office with comments requiring revisions to ensure compliance with RA 7586, as amended by RA 11038. The meeting also finalized plans for joint activities and reinforced collaborative commitments across member LGUs. Overall, these accomplishments reflect the strengthened coordination, improved capacity, and sustained commitment of the EIBLDN-MPAN toward effective coastal and marine resource management.

*C. Strengthening of the Eastern Iligan Bay Alliance MPAN under PENRO Misamis Oriental*

PENRO Misamis Oriental supported the Eastern-Iligan Bay Alliance throughout CY 2025 by initiating and facilitating key coordination activities. During the first quarter, coordination meetings were conducted for both the Eastern-Iligan Bay Alliance to align coastal management initiatives and strengthen cooperation among participating local government units.

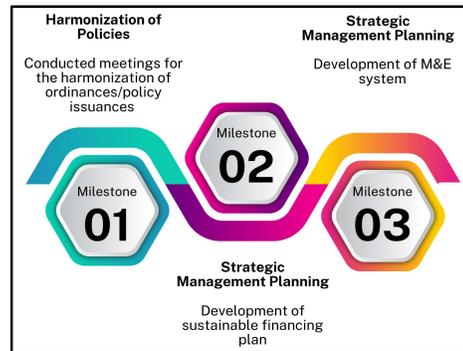


Figure 9. *The target and accomplished milestone activities for the strengthening of EIBA-MPAN*

In the second quarter, PENRO Misamis Oriental convened a meeting on June 11, 2025 at Echavez Kitchenette in Initao, attended by representatives from the municipalities of Lugait to Laguindingan. The session focused on presenting the results of the recent underwater assessment within the Locally-Legislated Marine Protected Areas and completing the Marine Protected Area Network Strategic Plan, which will guide the alliance’s priorities and actions moving forward.

By the third quarter, PENRO continued its support through another meeting held on August 14–15, 2025 in the same venue. Updated underwater assessment results were presented, including findings from the Initao-Libertad Protected Landscape and Seascape. The activity also facilitated the preparation of the Sustainable Financial Plan, with local government units committing to integrate Marine Protected Area Network activities into their Annual Investment Plans and Local Development Investment Plans to ensure consistent funding and long-term implementation.

**1.4 Maintenance and Protection of Coastal and Marine Ecosystems Including Reduction of Threats and Pressures Identified**

#### ***1.4.1 Conduct of Patrolling***

Under ILPLS, PAMO-ILPLS together with the Philippine Coast Guard quarterly conducted Boat Patrolling and Beach Shore Walking. A total distance of 59.47 km covered 9.95km, 9.12km, 20km, 20.4km in the 1st quarter up to the 4th quarter respectively. Issues observed are trash along the shoreline, and structures within the easement zone. It is important to note that these observations were only noted during the 1st and 2nd quarter patrolling. This means that the interventions, cleanup and Information drive, performed by that office were effective.

BPLS-PAMO together with PNP Maritime Group, PCG, USTP and DOST conducted a joint patrol covering a total length of 31.48km for the year. Consistently, there were no issues and threats observed on all instances of patrolling.

#### ***1.4.2 Conduct of Habitat Survey***

100% milestone activities for the 1st and 2nd semester were accomplished by both BPLS and ILPLS which include monitoring of threat occurrence such as coral bleaching, grounding, oilspill, Crown of Thorns (COTs) including monitoring of Illegal Unreported and Underregulated Fishing (IUUF) in the various part of the PAs.

Notable collective observations includes drift woods and solid waste within coastal areas, sand accretion within seagrass areas, presence of algae that would overshadow the coral reefs, and turbid waters

#### ***1.4.3 Conduct of Direct Activities***

100% of the milestone activities for the year was accomplished in both ILPLS and BPLS. These include the conduct of coastal clean ups and COTs extraction to reduce/eliminate the identified threats.

PAMO of ILPLS, PENRO Misamis Oriental, and CENRO Initao personnel quarterly conducted underwater/coastal clean-up, CEPA, and easement delineation survey to address garbage and illegal structures threats.

Accumulation of various garbages inside the mangrove area within BPLS. Proliferation of green algae in the coral rehabilitation site and observed houses along the river banks were the identified threats. Hence, the BPLS PAMO regularly conducts IEC/CEPA, cleanup activities, monitoring of fibrous algae covering the corals within the rehabilitation site (Lumlumay Reef) to address the threats.

#### ***1.4.4 Repair and Maintenance of Equipment***

To ensure the proper maintenance, protection, and operational readiness of equipment utilized in the implementation of the Coastal and Marine Ecosystems Management Program (CMEMP), a comprehensive inventory and condition assessment of equipment was conducted by the Regional Office. This activity aimed to determine the current status of equipment, identify serviceable units, and pinpoint those

that are unserviceable or require repair and maintenance to guide appropriate corrective actions and ensure readiness for field operations, to wit:

Office	Remarks/Status
Regional Office	Total No. of Equipment - 201 Serviceable - 181 Unserviceable - 11 - 6 transect tapes - 4 underwater camera - 1 GPS For Repair/under maintenance - 9 - 6 regulators - 2 scuba tanks - 1 pair of flipper strap
PENRO Misamis Occidental	A total of 38 equipment/tools maintained/inventoried composed of the ff: -27 serviceable (weight w/Stainless steel, BCD, Aquamundo Scuba Tank, etc.) -11 unserviceable (GoPro Hero 11, LED Lens Flashlight, etc.)
PENRO Misamis Oriental	<u>PENRO Misamis Oriental:</u> Total No. of Equipment - 47 Serviceable - 41 For Repair/under maintenance -6 (2 dive mask and 4 BCDs) <u>CENRO Initao:</u> Total No. of Equipment - 45 Serviceable - 38 For calibration - 1 dive computer For Repair - 6 regulators <u>PAMO-ILPLS:</u> Total No. of Equipment - 49 Serviceable - 49

Table 1. *Summary of Equipment Inventory for Maintenance and Protection*

## 2. Biodiversity-Friendly Enterprise (BDFE) Development

BDFEs are micro, small, and medium enterprises that promote the sustainable use of biological resources, create wealth and value, and open opportunities for the equitable sharing of benefits among stakeholders.

For CY 2025 four established BDFE were targeted for enhancement under NIPAS sites and two under PENRO Camiguin pursuant to DENR Administrative Order No. 2021-13 which is the Guidelines for the Development and Recognition of

CY 2025 ANNUAL ACCOMPLISHMENT  
DENR-10 COASTAL AND MARINE ECOSYSTEMS MANAGEMENT PROGRAM

Biodiversity-Friendly Enterprises (BDFEs) in Protected Areas under the National Integrated Protected Area System (NIPAS) and Conservation Areas, Providing for Incentives and Supporting Mechanisms” dated May 21, 2021 is among the CY 2024 targets of all the coastal PENROs in Region 10 in compliance to the DENR Administrative Order No. 2016-26, to wit:

<b>NIPAS/PENRO</b>	<b>PO Name</b>	<b>BDFE</b>	<b>Year Establish</b>
BPLS	Nagkahiusang Katawhan sa Sinian Nagpalambo sa Tinubdan, Inc. (NAKASINATI)	Mudcrab Fattening	2021
BKPLS/LLRMSFR	Tacub Vendor’s Association (formerly Tacub Lab-asera Association)	"Spanish Style" Sardines in Corn Oil	2018
	Binuni Fisherfolk Association (formely Tagoninao Fisherfolk Association)	Mushroom Production	2017
ILPS	Sta. Cruz Gimaylan Fisherfolks Association (SFA) Inc., formerly Gimaluyan Fisherfolks Association Inc.	Glass-bottom boat	2015
PENRO Camiguin	Bonbon Sagay Upland Farmers Association (BSUFA), and Abaca Fiber Processing	Bottled Sardines Processing	2017
	PO Kahugpungan sa Masilakong Mananagat	Abaca Fiber Processing	2017

	Association (KASAMMA)		
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Table 2. *List of targeted established BDFE*

In Camiguin Province, there are 24 established BDFE POs outside the NIPAS MPA site (see attachment).

For CY 2025, as stipulated in the approved UWM, the BDFE component identified four major milestones: (1) appraisal/reappraisal of BDFE People’s Organizations (POs); (2) identification of appropriate technical assistance to be extended to the POs; (3) provision and conduct of the identified technical assistance; and (4) submission of quarterly progress reports on the implemented activities. The Region successfully completed 100% of these milestones within the year. Presented below are the detailed accomplishments for each PO:

**A. *Mudcrab Fattening of PO Nagkahiusang Katawhan sa Sinian Nagpalambo sa Tinubdan, Inc. (NAKASINATI)***

The Baliangao Protected Landscape and Seascape – Protected Area Management Office (BPLS-PAMO) continued the implementation and strengthening of the Biodiversity-Friendly Enterprise (BDFE) Program for its beneficiary People’s Organization (PO), Nagkahiusang Katawhan sa Sinian Nagpalambo sa Tinubdan, Inc. (NAKASINATI), throughout the Calendar Year (CY) 2025. The office achieved 100% accomplishment based on the component’s milestones, as all targeted activities related to enterprise appraisal, identification of appropriate technical assistance, and conduct of technical assistance were successfully implemented in accordance with DENR and Biodiversity Management Bureau (BMB) directives.



Figure 10. *Photo documentation during the BDFE-supported mudcrab fattening enterprise of NAKASINATI in the Baliangao Protected Landscape and Seascape.*

### ***A.1. Appraisal***

A re-appraisal of NAKASINATI’s mud crab fattening enterprise was conducted using the BDFE Appraisal Tool pursuant to DAO 2021-13. The organization obtained a total score of 77 out of 100, reflecting a notable improvement from its previous assessment. Some indicators received zero points due to the absence of required Means of Verification (MOVs), while other indicators are scheduled for implementation under the approved 2023–2026 BDFE Roadmap.



Figure 11. Photos during the Re-appraisal of NAKASINATI’s mud crab fattening enterprise using the BDFE Appraisal Tool pursuant to DAO 2021-13.

### ***A.2. Identify the kind of Technical Assistance***

Based on the results of the re-appraisal, the identified technical assistance to be provided to NAKASINATI for CY 2025 focused on meeting the BDFE criteria outlined in DAO 2021-13, Annex F, specifically:

1. Reviewing and updating conservation measures;
2. Establishing performance monitoring mechanisms; and
3. Adopting cost-sharing arrangements in protected area management.

### ***A.3. Conduct of the Technical Assistance***

- ***Reviewing and Updating Conservation Measures***

A regular Executive Committee meeting of the Baliangao Protected Landscape and Seascape Protected Area Management Board (PAMB) was conducted on June 17, 2025, at the BPLS Pavilion Hall, Misom, Baliangao, Misamis Occidental. The meeting was attended by thirteen (13) PAMB members and was presided over by Mr. Ding Gilmar C. Subsuban, representative of the Department of Agriculture.

During the meeting, the PAMB approved a resolution entitled “A Resolution Approving the Cost-Sharing in the Management of the Protected Areas Established for the Mud Crab Fattening Enterprise of NAKASINATI, Inc.” This resolution highlights the strengthened commitment of PAMB members to support the enterprise through a collaborative cost-sharing mechanism in protected area management. The initiative

aims to promote sustainable livelihoods, enhance local economic activities, and ensure the continued protection of biodiversity within the BPLS.



Figure 12. Photos during the conduct of the BPLS-PAMB Executive Committee meeting resulting in the approval of the cost-sharing resolution for NAKASINATI's mud crab fattening enterprise.

- **Reviewing and Updating Conservation Measures**

A technical assistance meeting spearheaded by BPLS-PAMO was conducted on August 15, 2025, focusing on the commitment of the People's Organization as a community partner in the protection and conservation of natural resources within the protected area. Protected Area Superintendent (PASu) Alson Potutan emphasized the importance of strengthening community awareness and participation in conservation efforts. PO members were reminded of their responsibilities in protecting the natural resources of the Baliangao Protected Landscape and Seascape and sustaining the implementation of BDFE programs for long-term community economic benefits.



Figure 13. Photos during the BPLS-PAMO technical assistance meeting promoting sustained PO participation in conservation and livelihood development, CY 2025.

- ***Establishing Performance Monitoring Mechanisms***

Another technical assistance activity was conducted on September 18, 2025, at Purok Rubia, Barangay Sinian, Baliangao, Misamis Occidental. The activity was attended by members of NAKASINATI, Inc. and facilitated by the BPLS-PAMO. Updates on the organization's status and enterprise performance were presented by Mr. Charles Bali-os. The roles and responsibilities of PO members were thoroughly discussed, and the project timeline and follow-up actions were agreed upon to ensure the effective and smooth implementation of the mud crab fattening enterprise.



Figure 14. Photos during the conduct of technical assistance meeting with NAKASINATI members on enterprise updates, roles, and implementation timeline for the mud crab fattening project, September 18, 2025.

***B. Bottled Sardines Processing of PO Bonbon Sagay Upland Farmers Association (BSUFA), and Abaca Fiber Processing of PO Kahugpungan sa Masilakong Mananagat Association (KASAMMA)***

In CY 2025, PENRO Camiguin implemented a series of coordinated activities to strengthen People's Organizations (POs) engaged in Biodiversity-Friendly Enterprise (BDFE) development, particularly Kahugpungan sa Masilakong Mananagat (KASAMMA) and Bonbon Sagay Upland Farmers Association (BSUFA). The office achieved **100% accomplishment** based on the component's milestones, as all targeted activities related to enterprise appraisal, identification of appropriate technical assistance, and conduct of technical assistance were successfully implemented in accordance with DENR and Biodiversity Management Bureau (BMB) directives.

***B.1. Appraisal***

On January 17, 2025, the personnel coordinated and discussed the approved map on the sardine fishing coverage managed by the KASAMMA Organization as a result from the geotagging activity conducted on November 11, 2024 per Memorandum dated January 24, 2025;

Conducted field visits to KASAMMA and BSUFA to collect updated financial reports on bottled sardines and abaca fiber marketing for November and December

2024. Further, documented the means of processing the BDFE products (bottled sardines and abaca fiber) and collected geotagged photos on the source of raw materials (sardines); and

Per Memo dated March 20, 2025, PENRO Camiguin facilitated the conduct of the Sustainable Development Framework covering the policies and procedures on BDFE development and review and update the POs CY 2024 inventory, rapid assessment and appraisal per DAO 2021-13 on March 27-28, 2025.



Figure 15. Photo documentation during the BDFE policy orientation, inventory update, and appraisal of KASAMMA and BSUFA.

## ***B.2 Identify the kind of Technical Assistance***

For the second quarter of CY 2025, PENRO–Camiguin conducted a Level 2 and 3 Appraisal of BSUFA and KASAMMA on April 23–24, 2025, in accordance with DAO 2021-13. The appraisal aimed to assess the identified BDFE People’s Organization and ensure compliance with DAO 2021-13 by assisting the PO in completing required documentation and reports, including the submission of Annex F Level 2 Means of Verification (MOVs). Ten (10) participants actively engaged in the activity, which included discussions on appraisal requirements and tactical planning to address data gaps and outstanding MOVs.

### ***B.2.1. PO Bonbon Sagay Upland Farmers Association (BSUFA), and Abaca Fiber Processing***

The assessment identified the strengthening of BSUFA's long-term sustainability by formalizing existing resource integrity and sustainable cultivation practices, maximizing the use of geo-tagging data for conservation and land-use planning, and maintaining strict compliance with environmental laws, particularly RA 9147. Improved internal surveillance, documentation, and financial record-keeping are also necessary to ensure transparency, regulatory compliance, and effective monitoring

of abaca and vegetable production.

Further, BSUFA should align its business initiatives with LGU Sagay's development plans, sustain and expand strategic partnerships, and implement a responsive marketing strategy focused on premium abaca grades. Consistent application of participatory management and equitable benefit-sharing must be upheld. Once available, trend analysis of income, age, and occupation data should be conducted to guide decision-making. Overall, BSUFA is strongly encouraged to develop a 10-Year Strategic Plan through a training-workshop and to undergo orientation on RA 9147 to support enterprise sustainability and conservation compliance.

### ***B.2.2 PO Abaca Fiber Processing of PO Kahugpungan sa Masilakong Mananagat Association (KASAMMA)***

The appraisal highlighted several key recommendations to further strengthen KASAMMA as a Biodiversity-Friendly Enterprise: formal integration of sardine production into the LGU's CDP and CLUP to enhance institutional support; scaling up operations through facility upgrades, including exploring funding for a dedicated fish mill to reduce waste and create an additional livelihood stream; continued capacity building on financial management, market strategies, and product diversification to improve income and attract younger members; improvement of documentation and reporting systems through digitalization for more efficient monitoring and compliance; expansion of market reach by leveraging partnerships with BFAR, DOLE, DTI, DENR, and other agencies; and strengthened policy orientation on sardine fry conservation to ensure member awareness of ecological importance, seasonal bans, and penalties. To sustain these efforts, it is highly recommended that PO-KASAMMA formulate a 10-Year Strategic Plan to guide enterprise sustainability, conservation alignment, market growth, capacity development, and future partnerships, ensuring continuity and effective resource planning over the next decade.



Figure 16. Photo documentation during the discussion of appraisal recommendations for enterprise scaling, market expansion, and conservation alignment of KASAMMA.

### ***B.3 Conduct of the Technical Assistance***

The provision of technical assistance to the Biodiversity-Friendly Enterprise (BDFE) People's Organizations Kahugpungan sa Masilakong Mananagat (KASAMMA) and Bonbon Sagay Upland Farmers Association (BSUFA) focused on the formulation of their 10-Year Strategic Plans and was conducted on September 16–17, 2025, at Duminikaw Vibes Resort, Sagay, Camiguin Province.

Through lectures and participatory workshops, the POs gained a clearer understanding of the role of BDFEs in balancing livelihood development and biodiversity conservation. Key inputs covered visioning and sustainability pillars, alignment of community goals with governance and enterprise development, compliance with the Sagay Fishery Code (M.O. 07-2023), and orientation on the salient features of Republic Act No. 9147 (Wildlife Resources Conservation and Protection Act). Practical exercises such as SWOT analysis, stakeholder mapping, problem and objective tree analysis, and logical framework development enabled the POs to assess their current situation, identify risks and opportunities, and define priority actions. Concrete outputs were generated, while some requirements were identified for further compliance.

Overall, the activity provided KASAMMA and BSUFA with clearer direction, stronger organizational confidence, and practical planning tools essential for completing their 10-Year Strategic Plans, ensuring alignment with biodiversity conservation and community development goals. It is recommended that continuous technical assistance be sustained to refine outputs into final plan components, strengthen stakeholder engagement, ensure policy alignment, establish monitoring mechanisms, and create a BDFE facilitation team to oversee completion and compliance until both POs finalize their plans.



*Figure 17. Photo documentation during the conduct of Technical Assistance workshops for KASAMMA and BSUFA on the formulation of their 10-Year Strategic Plans under the BDFE Program, September 16–17, 2025.*

***C. "Spanish Style" Sardines in Corn Oil of Tacub Vendor's Association (formerly Tacub Lab-asera Association) and Mushroom Production of Binuni Fisherfolk Association (formely Tagoninao Fisherfolk Association)***

***C.1. Appraisal and Identification of kind Technical Assistance***

The Protected Area Management Office (PAMO) of the Liangan-Lipatan River Mangrove Swamp Forest Reserve supported the implementation of the Biodiversity-Friendly Enterprise (BDFE) program by assisting two People's Organizations: the Tacub Vendor's Association and the Binuni Fisherfolk Association. The initiative aims to enhance community participation in biodiversity conservation while promoting sustainable livelihood opportunities.

***C.2 Conduct of Technical Assistance***

PAMO provided technical assistance to both organizations in preparing their project proposals. The Tacub Vendor's Association proposed Sardines in Oil production but continues to face challenges due to limited equipment and financial resources. The Binuni Fisherfolk Association, reorganized in 2024, selected Mushroom Production as its enterprise but requires financial capital to sustain the project.

To address these gaps, PAMO began drafting project proposals on behalf of the associations, ensuring their alignment with enterprise plans. The final proposals will be completed and submitted in the fourth quarter for regional deliberation.

Overall, PAMO's continued support demonstrates its commitment to empowering local communities through sustainable enterprises that promote livelihood development and long-term protection of the protected area.

***D. Glass-bottom boat of Sta. Cruz Gimaylan Fisherfolks Association (SFA) Inc., formerly Gimaluyan Fisherfolks Association Inc.***

***D.1. Appraisal and Identification of kind Technical Assistance***

In CY 2025, the Protected Area Management Office of the Initao-Libertad Protected Landscape and Seascape (PAMO-ILPLS) conducted a rapid assessment of the Sta. Cruz Gimaylan Fisherfolks Association (SFA) Inc., formerly Gimaluyan Fisherfolks Association Inc., following recommendations from the National Performance Assessment Team (NPAT) after the I-RISE audit. The assessment resulted in a 43.75% rating, which did not meet the 80% minimum requirement under DAO 2021-13, necessitating corrective actions and a re-appraisal of the PO's capacity and eligibility for continued livelihood assistance.

PAMO-ILPLS formally informed the PO of the unfavorable audit findings on its Glass Bottom Boat enterprise and coordinated with the Regional Office to undertake the required re-assessment. Although the PO proposed shifting to a "panagatan" (drop-off and trading center), the proposal was advised against due to its low likelihood of qualifying as a Biodiversity-Friendly Enterprise (BDFE) and its incompatibility with a NIPAS-Protected Area.

***D.2. Conduct of Technical Assistance***

PAMO-ILPLS continues to work closely with the Regional Office and the Coastal Resources and Foreshore Management Section (CRFMS) to obtain technical guidance in finalizing the re-assessment and determining appropriate next steps, including the possible redesign or realignment of the livelihood project. A Completed Staff Work (CSW) was likewise required to assess whether the project should be retargeted to the same PO in the succeeding year, considering the low assessment score and non-operationalization of the livelihood program.

**3. Capacity Building**

Capacity building is one of the major components of the Coastal and Marine Ecosystems Management Program (CMEMP) pursuant to DENR Administrative Order No. 2016-26, which aims to develop the skills and expertise of the DENR personnel involved in the CMEMP implementation. Per the CY 2025 UWM, Region 10 has a target of 1 attendance on NIPAS MPA Capacity Building Program (NIMCAP) and conduct of one training for CMEMP implementation enhancement under the Regional Office and PENROs Misamis Occidental and Misamis Oriental.

**A. Attendance to Enhancement Trainings on NIPAS MPA Capacity Building Program (NIMCAP)**

The Region 10, through the IPAF budget of PAMO LLRMSFR, hosted the CY 2025 NIPAS–Marine Protected Area Capacity Building Program: Cluster 3 Rollout for Module 4 – Climate Change Planning for Coastal and Marine Environment was held on October 1-5, 2025 for the National Mentor’s Training and October 6–10, 2025 for the National Mentor’s Training in N Hotel, Cagayan de Oro City, Misamis Oriental. It was participated by the Cluster 3 National and regional Mentors (Regions 9, 10, 11, 12, 13, and BARMM).

The training focuses on enhancing the capacities of Protected Area managers, technical staff, and stakeholders in planning for and addressing the impacts of climate change on coastal and marine environments. It served as a continuation of the NIMCAP

initiative, focusing on practical climate change adaptation planning within the context of Marine Protected Areas (MPAs).

Figure 18. Photo documentation of National and regional mentors participating in the NIPAS-MPA Capacity Building Program on climate change adaptation planning,



Cluster 3, CY 2025.

Below is the list of the participants from Region 10 who successfully completed the training, to wit:

NAME OF PARTICIPANTS	OFFICE
1. Mercedita G. Barbarona 2. Eden Marie F. Gamos 3. Benito P. Moreno IV 4. Jo Ann M. Asapon 5. Alde Eleanor T. Callanta 6. Shielrow C. Abastillas 7. Kim Peter P. Galve	Regional Office
8. Rose Ann Baron	PENRO Camiguin
9. Darren Q. Monreal	BKPLS/ LLRMSFR
10. Alson Potutan	BPLS
11. Lovern Grace Amilao 12. Ednalyn Mayordo	ILPLS

Table 3. List of Trainings Attended and Conducted under the Capability Building Component of CMEMP for CY 2025

The Regional has 12 CMEMP personnel out of the 7 target participants who completed the said training which is equivalent to 171% accomplishment. The exceedance of accomplishment rate was due to the Region 10 was the host - provided

support secretariat and documentor for the training while maximizing their engagement not just support but also as participants doing multi-tasking function.

The Cluster 3 rollout of Module 4 under the NIPAS–Marine Protected Area Capacity Building Program provided participants with a rich set of learnings that deepened their understanding of climate change planning for coastal and marine environments. Throughout the training, participants strengthened their grasp of climate change fundamentals, gaining clarity on global and national frameworks, legislation, and scientific principles that guide climate action in the Philippines. This foundational knowledge helped them better understand the complex climate variables—such as sea level rise, ocean acidification, and increasing temperatures—that directly impact Marine Protected Areas.



Figure 19. Photo documentation during the CMEMP NIPAS–MPA Capacity Building Program on climate change planning.

A major learning takeaway was the recognition of how both climate and non-climate stressors shape the vulnerability of coastal ecosystems. Through interactive exercises and expert presentations, participants learned to assess pressures such as pollution, overfishing, and coastal development, and how these factors magnify the effects of climate change. This broadened their perspective on the interconnectedness of environmental challenges and the need for integrated management approaches.

The training also strengthened participants’ skills in conducting community resilience and vulnerability assessments. They learned how to identify community strengths, adaptive capacities, and priority issues that must be addressed to build climate resilience. This understanding prepared them to craft issue statements and adaptation approaches that are grounded in local realities and responsive to community needs.

One of the most impactful learning experiences came from the field exposure in Laguindingan, Misamis Oriental. Seeing firsthand the signs of coastal erosion and ongoing adaptation practices allowed participants to connect theory with real-world observations. This practical exposure enriched their ability to analyze environmental

conditions and design realistic, context-specific adaptation strategies for their respective MPAs.



Figure 20. *Photos of the participants during the NIPAS–MPA training assessing coastal ecosystem vulnerabilities and community resilience during interactive exercises and field exposure in Laguindingan, Misamis Oriental.*

disaster risk reduction, and sustainable financing in climate planning also emerged as a key lesson, reinforcing the need for holistic and inclusive approaches.

Overall, the program strengthened participants’ technical competencies, broadened their perspectives, and fostered a spirit of collaboration. The shared learnings and experiences empowered them to advance climate-resilient planning in their Marine Protected Areas and reaffirmed their commitment to protecting the country’s coastal and marine ecosystems in the face of climate change through adoption and implementation of the individual Commitment Plan.

## **B. Conduct of trainings for CMEMP Implementation Enhancement**

For CY 2025, the priority of the Regional Office CRFMS is to enhance the skills of the CMEMP implementers on GIS mapping as it is a very useful tool in the conduct of the CMEMP monitoring and evaluation, and visualizing plan for habitat resource area management to aid in decision making and further their knowledge in CPCe for aligning BAMS guidelines with accurate coral reef and fish assessments. It ensures efficient data analysis, improves monitoring quality, and supports better coastal and marine ecosystem management. For PENROs Misamis Oriental and Misamis

Occidental prioritized SCUBA which enhances participants' skills in underwater navigation, ecological monitoring, and marine biodiversity assessment through lectures and hands-on open water exercises and obtained Open Water Diving Licence which is essential in the effective CMEMP implementation.

Per the 2025 UWM, the performance indicator for the said activity is the number of trainings conducted, with a target of one (1) training per Office (Regional Office, PENRO Misamis Occidental, and PENRO Misamis Oriental). The Regional Office conducted two (2) trainings against the two (2) targeted outputs, resulting in a 200% accomplishment. These trainings covered GIS Mapping and CPCe Software Application. The exceedance is attributed to the conduct of an additional CPCe training, which was deemed necessary to address the identified knowledge gap among newly hired personnel of the Coastal Resource and Fisheries Management Section (CRFMS). The CPCe software is utilized in the analysis of data generated from coral resource assessments. Meanwhile, each of the PENROs conducted one (1) training, thereby achieving a 100% accomplishment

### ***B.1 Regional Office Accomplishment***

#### ***B.1.1 Training Geographic Information (GIS) System Mapping***

The Conservation and Development Division - Coastal Resources and Foreshore Management Section organized a three-day Geographic Information System (GIS) Capacity Building Training Workshop from September 22-24, 2025. The workshop was held at the DENR 10 Main Conference Room, Cagayan de Oro City, on September 22 and 24, with a field exercise at the Initao-Libertad Protected Landscape and Seascape on September 23. A total of 23 participants (11 males, 12 females) attended from personnel from the DENR-X Regional Office, PENROs, CENROs, and PAMOs.



Figure 21. *Photo documentation during the GIS mapping training at DENR 10 and field exercises at Initao-Libertad Protected Landscape and Seascape.*

Capacity building is a key component of the Coastal and Marine Ecosystems Management Program (CMEMP) under DENR Administrative Order No. 2016-26, which aims to strengthen the competencies of DENR X personnel. In line with this directive, the CRFMS for CY 2025 focused on strengthening GIS mapping skills. GIS serves as an invaluable tool for CMEMP monitoring and evaluation processes, allowing the visualization of habitat resource area management plans and supporting evidence-based decision-making.

During the GIS Capacity Building Training Workshop, participants learned key GIS skills essential for coastal and marine ecosystem management. They were introduced to Map Appreciation and the basics of Geographic Information Systems (GIS), followed by hands-on training in ArcGIS software. Key topics included Table Management, Georeferencing, Digitizing, and Editing data within GIS. The workshop also covered how to create effective Map Layouts for presenting GIS data.

As an output of the training, participants were able to generate a map showcasing the details of the recently conducted CY 2025 International Coastal Clean-up, including essential information such as locations, activities, and key statistics. This exercise demonstrated their ability to apply GIS techniques to real-world environmental tasks.

Additionally, participants were instructed to re-echo the training to their respective teams and colleagues, ensuring the knowledge gained was shared and applied within their local offices and field operations.

At the conclusion of the workshop, the participants recommended that they be included in more advanced GIS training to further enhance their skills and deepen their understanding of GIS applications in coastal and marine resource management. This request reflects their commitment to continuous improvement and their desire to contribute more effectively to environmental monitoring and conservation efforts.

#### ***B.1.2. Orientation on the use of the Coral Point Count with Excel Extensions (CPCe) Tool***

The Regional Office conducted the Orientation on the use of the Coral Point Count with Excel Extensions (CPCe) Tool on October 23–24, 2025 at the Conservation and Development Division. Said activity was designed to provide a step-by-step hands-on tutorial regarding the CPCe software application for the processing of the Coral Count data and analysis, which is very useful for clarifying gap on how to utilize the CPCe software and in deriving graphical result to aid in the analysis of the coral assessment.

The CPCe training requires expertise in seagrass, coral, and fish identification. This poses a significant challenge for newly appointed CRFMS staff, who, while capable of operating the system, are unable to fully utilize its capabilities due to limited knowledge in species identification. Therefore, it is recommended that additional training focused specifically on the identification of seagrass, corals, and fishes be conducted to enhance staff competence and ensure the effective use of CPCe in marine resource assessment.

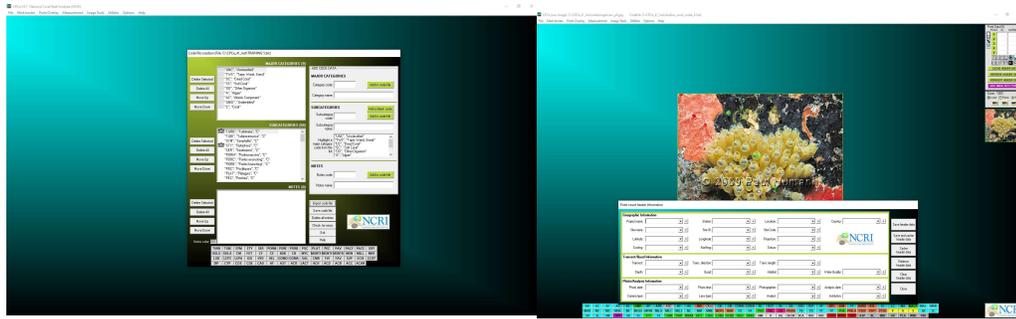


Figure 22. Software of Coral Point Count with Excel Extensions (CPCe) Tool

## B.2 SCUBA Training

The PENROs of Misamis Occidental and Misamis Oriental successfully conducted an Open Water Diving training from August 6–9, 2025 and August 13–16, 2025, respectively. The training took place at the Mantangale Alibuag Dive Resort in Balingoan, Misamis Oriental. This initiative aimed to enhance the participants' diving skills and familiarize them with underwater ecosystems, which are crucial for effective coastal and marine resource management. The program provided practical exposure to marine environments, reinforcing the importance of conservation and sustainable management of coastal resources.

The PENROs of Misamis Occidental and Misamis Oriental successfully conducted an Open Water Diving training on August 6–9, 2025, and August 13–16, 2025, at the Mantangale Alibuag Dive Resort in Balingoan, Misamis Oriental. This training provided participants with the skills necessary for underwater exploration and monitoring, which are crucial for effective coastal and marine resource management.



Figure 23. Participants of the Open Water Diving training conducted by PENRO

*Misamis Occidental and Misamis Oriental gaining practical exposure to underwater ecosystems, August 2025.*

As a result of the training, a total of 13 participants from both PENRO offices received their newly licensed Open Water Diver Licenses. These newly licensed divers are now qualified to conduct underwater assessments, monitor marine biodiversity, and contribute more effectively to conservation efforts in the region.

The participants were recognized for their achievements, and the following individuals received their licenses, along with their corresponding license numbers:

<b>Name of participant</b>	<b>Office/PENRO/CENRO/PAMO</b>
1. Marie Cris C. Balambao 2. Rio S. Bagundol 3. Jean G. Calimpong	Misamis Occidental
4. Darwin S. Macalisang 5. Jean Ninobla	CENRO Oroquieta City
6. Jessah C. Gines 7. Reymark Abucay	CENRO Ozamiz City
8. Alson D. Potutan	PAMO
9. Norven Niel S. Gabilan 10. Henry L. Halina 11. Lynbert B. Sancho	Misamis Oriental
12. Mark Anthony G. Hania	CENRO Initao
13. Kristoffer Alex C. Vergara	CENRO Gingoog

Table 4. *List of 13 DENR personnel who received their newly licensed Open Water Diver Licenses.*

#### **4. Technical Assistance (TA)**

This component includes three types of Technical Assistance (TA) provided: (4.1) TA1 focuses on the integration of Integrated Coastal Management (ICM) into the Comprehensive Land Use Plan (CLUP) and Comprehensive Development Plan (CDP) for Local Government Units (LGUs) within major watersheds contributing to the National Integrated Protected Areas System-Marine Protected Areas (NIPAS-MPA); (4.2) TA2 is provided to LGUs and other requesting partners/stakeholders addressing coastal and marine-related issues; and (4.3) TA3 emphasizes MPA networking for LGUs managing Marine Protected Areas (MPAs).

##### *4.1 TA on Integrated Coastal Management (ICM) Mainstreaming to the Comprehensive Land Use Plan (CLUP) of the Local Government Unit (LGU)*

BMB Technical Bulletin No. 2022-02 aims to provide a clear and standardized framework for mainstreaming Integrated Coastal Management (ICM) principles into the Comprehensive Land Use Plans (CLUPs) of coastal Local Government Units (LGUs). The bulletin guides DENR field offices and LGUs in aligning land use planning with sustainable coastal resource management, ensuring ecological protection, disaster risk reduction, and climate resilience are integrated into local development plans. This approach fosters an ecosystem-based management strategy that harmonizes upland and coastal resource concerns. For CY 2025, the target Local Government Units (LGUs) for the Integrated Coastal Management (ICM) mainstreaming initiative were LGU Calamba and LGU Concepcion.

PENRO Misamis Occidental, through CENRO Oroquieta City, successfully accomplished 100% the targeted activities under the Technical Assistance on ICM Mainstreaming for CY 2025. A major achievement was the comprehensive inventory and mapping of municipalities within major watersheds that contribute to the NIPAS Marine Protected Area. This mapping identified key river systems such as the Sinian, Itusan, Ducaling, and Naipos Rivers in Calamba, and the Langaran Watershed spanning Calamba and Aloran. Understanding these watersheds was critical to appreciating the ecological connections between upland areas and coastal resources, underscoring the need for integrated management.

Following the watershed mapping, an assessment of the status of Integrated Coastal Management plans and Comprehensive Land Use Plans (CLUPs) of LGU Calamba and LGU Concepcion was conducted. Both LGUs were confirmed to be landlocked and without existing formal ICM plans, but they had recently updated CLUPs formally approved in April and August 2025, respectively. These updated CLUPs already incorporated several key ICM principles, providing a solid foundation for sustainable local development.

On May 27, 2025, capacity-building activities on the ICM process were carried out, involving local heads of offices and punong barangays from the municipalities along the river systems. This initiative strengthened local stakeholders' understanding of watershed dynamics and their critical role in coastal management, promoting a holistic approach to resource stewardship. Ground validation followed, during which the Technical Working Group documented environmental threats, identified gaps, and formulated recommendations to guide future interventions.

The results of these inception-phase activities were formally presented on September 16, 2025, to the local chief executives of Calamba and Concepcion, marking the completion of coordination efforts with the concerned LGUs.

However, considering that the CLUPs of the aforementioned LGUs were approved in August, 2025 with several ICM principles incorporated, the mainstreaming of ICM into their CLUPs will no longer be pursued next year. Instead, the remaining gaps identified during the ground-truthing process will be addressed through appropriate and targeted local intervention measures. This approach ensures that efforts remain focused on practical solutions aligned with the specific needs of the LGUs, fostering continued progress in coastal and watershed resource management.

#### 4.2 *TA to LGUs on coastal and marine related concerns*

For CY 2025, DENR-X has provided assistance to 13 LGUs/stakeholders or 186% against the annual target of 7. Additionally, PENRO Camiguin has no target on TA to LGUs on coastal and marine concerns but nonetheless, they extended assistance to 8 LGUs/stakeholders who submitted requests to their office.

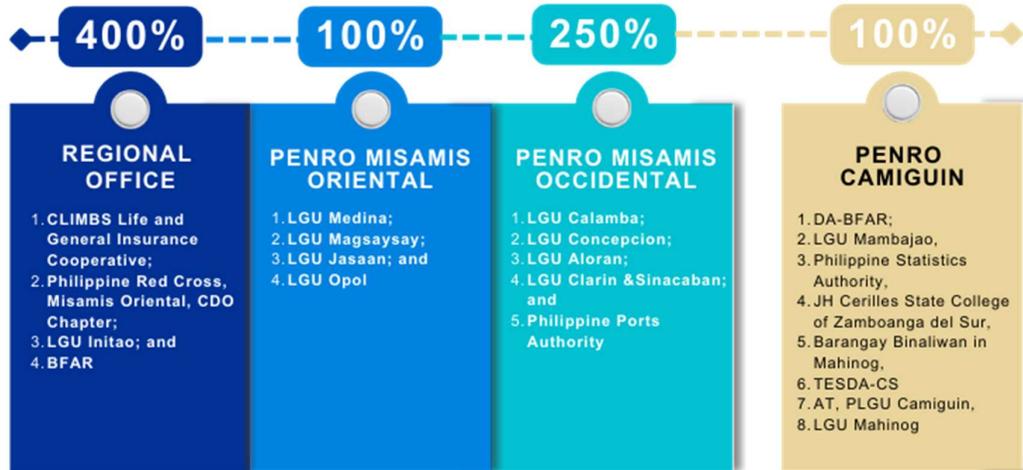


Figure 24. List of LGUs/Stakeholders assisted per office with its corresponding percentage of accomplishment.

#### 4.2.a TAs provided under Regional Office

Despite having set only one (1) LGU/stakeholder as the annual target for the provision of Technical Assistance (TA) under this CMEMP subcomponent, the Conservation and Development Division through the Coastal Resources and Foreshore Management Section was able to extend assistance to four (4) different LGUs and partner organizations during CY 2025. This translated to a 400% accomplishment. The over-achievement was due to the demand-driven nature of the office’s work, as the provision of TA is largely dependent on requests lodged by LGUs, agencies, and stakeholders. In line with its mandate, the office remains responsive to these requests, ensuring that technical support is provided whenever needed, even if this results in exceeding the original target.

In preparation for the Simultaneous Coastal Cleanup event, the CRFMS staff of the Regional Office provided assistance in response to a request from CLIMBS Life and General Insurance Cooperative for this activity. This collaboration supports the cooperative’s initiative for the 2025 Earth Day celebration and was formalized during a series of meetings initiated by the coop. The cleanup was successfully conducted on April 22, 2025 across nine coastal barangays in Cagayan de Oro City and Opol, Misamis Oriental.

On July 31, 2025, the CRFMS staff responded to the request of Philippine Red Cross, Misamis Oriental, CDO Chapter for technical assistance during the Mangrove Planting Activity and Symposium in celebration of the National Disaster Resilience Month and Mangrove Day. The initiative was successfully conducted in Brgy. Taytay, El Salvador, Misamis Oriental. It was participated by staff and volunteers of the Philippine Red Cross, as well as personnel from the Provincial Disaster Risk and Reduction Management Office (PDRRMO) and City Local Environment and Natural

Resources Office (CLENRO) of El Salvador City. Prior to the mangrove planting activity, the CRFMS staff lead the talk about some facts and importance of Mangroves through a question and answer session to gauge the knowledge of the participants and engage them in the discussion. During the mangrove planting activity, a total of 500 propagules of *Rhizophora* species were successfully planted in portions adjacent to the existing mangrove plantation.



Figure 25. Photo opportunity of the participants right after the symposium and mangrove planting activity in Brgy. Taytay, El Salvador City, Misamis Oriental.

On September 4-5, 2025, the CDD-CRFMS facilitated the Marine Protected Area Management Planning Workshop for LGU Initao locally-managed MPAs at Midway Minkay Beach Resort, Tubigan, Initao, Misamis Oriental. The team was requested by LGU Initao to help them craft their Marine Protected Area Management Plan for the sustainable management of their MPAs. The activity was attended by a total of 16 participants composed of representatives from the concerned three Barangays namely: Jampason, San Pedro, and Gimangpang; Municipal Planning and Development Office; Integrated Solidwaste Management Office; MENRO; Fisherfolk; CENRO Initao and CRFMS staff. For. Mercedita G. Barbarona, the Asst. Chief, CDD and concurrent Chief of CRFMS lead in facilitating the workshop with the assistance of key CRFMS personnel.



Figure 26. Photo opportunity of the participants after the 2-day MPA planning workshop at Minkay Beach Resort, Initao, Misamis Oriental.

Furthermore, the CDD-CRFMS received a request for technical assistance related to facilitating a Coastal Zoning Orientation for the Local Government Units (LGUs) within the FMA-9 area by the Bureau of Fisheries and Aquatic Resources (BFAR) per letter dated October 29, 2025. The requested assistance was provided by Mercedita G. Barbarona, the Assistant Chief of CDD and concurrent Chief of CRFMS, who served as the resource speaker during the workshop. This workshop, focused on introducing coastal zoning and integrating Integrated Coastal Management (ICM) into the Comprehensive Land Use Plans (CLUP) of the LGUs, which was held at New Dawn Hotel on November 27-28, 2025.

#### 4.2.b TAs provided under PENRO Misamis Oriental

##### *LGUs Medina and Magsaysay*

In May 2025, the Provincial Environment and Natural Resources Office of Misamis Oriental (PENRO Misamis Oriental) provided necessary technical assistance to two municipalities: Medina (May 27) and Magsaysay (May 29). This support involved aerial photography and surveys aimed at bolstering their coastal management initiatives, specifically the enhancement of their Integrated Coastal Management Plans (ICMPs) and coastal zoning strategies.

The surveys conducted revealed that both municipalities are rich in natural coastal resources, including significant mangrove forests and thriving coral reef ecosystems. However, the assessments also brought to light common environmental challenges that threaten the health of the marine environment. These issues include the presence of unauthorized structures within the 20-meter easement zone and the accumulation of floating debris along the coastlines.

To ensure the sustainability of their coastal resources, immediate intervention from the respective Local Government Units (LGUs) is strongly recommended to address these observed environmental concerns.

PENRO Misamis Oriental continued providing technical assistance (TA) to the LGUs of Magsaysay and Medina through two separate underwater assessments in July 2025. The assessment for Magsaysay was conducted from July 1-3, and the assessment for Medina was conducted from July 4, and 8-11.

##### *Summary of Key Findings:*

- Coastal Ecosystem Diversity: The assessments identified a diverse coastal ecosystem, including various seagrass and seaweed species. Mangrove species observed included *Sonneratia* spp. and *Avicennia* spp.
- Coral Formations: Notable coral formations (massive and branching types) were observed in the coastal areas of San Isidro, Damayuhan, Poblacion, and Villa-Felipa.
- Ecosystem Impacts: Coral cover was found to be variable due to pressures from siltation, wave exposure, and development. The coastal ecosystem is considered "impacted."
- Fish Population: A variety of fish species were recorded, predominantly in the juvenile phase, which suggests a high level of fishing pressure in the area.

*Identified Issues and Violations:*

The assessment revealed key environmental issues and violations of existing laws (including RA 386, RA 10121, PD 705, PD 1067, and RA 9003):

- **Illegal Structures:** Presence of illegal structures within the mandated 20-meter easement zone.
- **Waste Management:** Accumulation of garbage within mangrove areas.
- **Inappropriate Planting:** Inappropriate planting of mangroves within established seagrass zones.

*LGUs Opol and Jasaan*

On the other hand, PAMO-ILPLS in coordination with PENRO Misamis Oriental and concerned LGU offices conducted underwater and mangrove assessments in the municipalities of Jasaan and Opol, Misamis Oriental.

The assessments were conducted in Jasaan from April 22–25, 2025, covering eight coastal barangays, and in Opol from May 20–23, 2025, covering six coastal barangays. Findings revealed the presence of five seagrass species in both areas, six mangrove species in Jasaan, and eight mangrove species in Opol.

Common issues observed include the presence of permanent structures within foreshore areas and the 20-meter setback, mangrove cutting, improper solid waste disposal, and reclamation activities notably in Jasaan and Brgy. Solana. These findings underscore the need for immediate action by both LGUs to address threats and ensure the protection and sustainability of their coastal and marine ecosystems.

4.2.c TAs provided under PENRO Misamis Occidental

*Philippine Ports Authority – Misamis Occidental/Ozamiz*

CENRO Oroquieta received a letter dated February 7, 2025, from the Philippine Ports Authority – Misamis Occidental/Ozamiz, requesting technical assistance in providing a resource speaker for their “Re-Orientation on Solid Waste Management and the Ban on Unnecessary Single-Use Plastics”, scheduled for March 7, 2025. In response to this request, SEMS Elizabeth G. Gran, designated Deputy CENR Officer of CENRO Oroquieta City served as the principal resource speaker for the orientation on the specified date.

*LGU Clarin and LGU Sinacaban*

In preparation for updating the Coastal Resource Management Plans (CRMP) for both LGU-Clarin and Sinacaban, CENRO Ozamiz City convened a series of meetings with the Technical Working Group of both LGUs in response to their request for technical assistance. These meetings took place on April 7, 2025, at the Mayor’s Conference Room in Poblacion III, Clarin, Misamis Occidental, and on May 23, 2025, at the Municipal Session Hall in Poblacion, Sinacaban. During these sessions, the concerned office presented and discussed the significant chapter components of the CRMP.

Subsequently, the finalization workshops for the CRMPs of both LGUs took place on August 12, 2025, at the Session Hall of the Municipal Building in Clarin, and on August 18, 2025, at the Session Hall of the Municipal Building in Sinacaban, Misamis Occidental.

#### *LGU Aloran*

On the other hand, in response to the request received by their office, CENRO Oroquieta facilitated a “Training Workshop on the Proper Conduct of Bio-Physical Assessment for Coastal and Marine Habitat and Critical Habitat” that was held on April 22-23, 2025, at the Municipal Conference Room in Aloran, Misamis Occidental. The event aimed to ensure that future Coastal Resource Management (CRM) and Integrated Coastal Management (ICM) planning processes were based on updated, site-specific ecological data and followed the standard procedures outlined in the BMB Technical Bulletins (2017-05 and 2019-04 for Bio-Physical Assessment of Coastal and Marine Habitats, and 2018-04 for Critical Habitat Assessment).

On June 9 and 10, 2025, the Conservation and Development Section personnel of CENRO Oroquieta City assisted the Technical Working Group of LGU Aloran, led by Municipal ENRO Ms. Luz T. Madrio, in conducting a habitat assessment for seagrass and mangroves. This assessment took place in the barangays of Tuburan, Lubogon, Tawi-Tawi, and Makawa in Aloran, Misamis Occidental. Based on the assessment, the mangrove habitat covers a total area of 25.21 hectares, the seagrass habitat spans 41.74 hectares, and the coral habitat covers 12.96 hectares.

#### 4.2.d Technical Assistance Provided Under PENRO Camiguin

##### *LGU Mambajao*

PENRO Camiguin offered technical assistance to the Local Government Unit (LGU) of Mambajao in executing Crown-of-Thorns Sea Star (COTS) extraction at White Island Marine Park. This initiative involved 14 participants—13 males and 1 female—representing PENRO Camiguin, LGU Mambajao, Blue Season Dive Center, Coraya Divers, the Bureau of Fisheries and Aquatic Resources (BFAR), and Bantay Dagat. A total of 241 COTS were successfully removed, contributing to the mitigation of ecological damage to coral reefs. Additionally, on July 4, 2025, the Coastal and Resource Fisheries Management Unit (CRFMU) provided further technical support during an underwater cleanup at Lagundi Fish Sanctuary, where 16 participants from LGU Mambajao, the Philippine Coast Guard, volunteers, and PENRO Camiguin collaborated to collect 18.3 kilograms of marine debris. The reduced volume of waste compared to previous cleanups indicates the positive impact of these initiatives and reinforces ongoing marine conservation efforts.

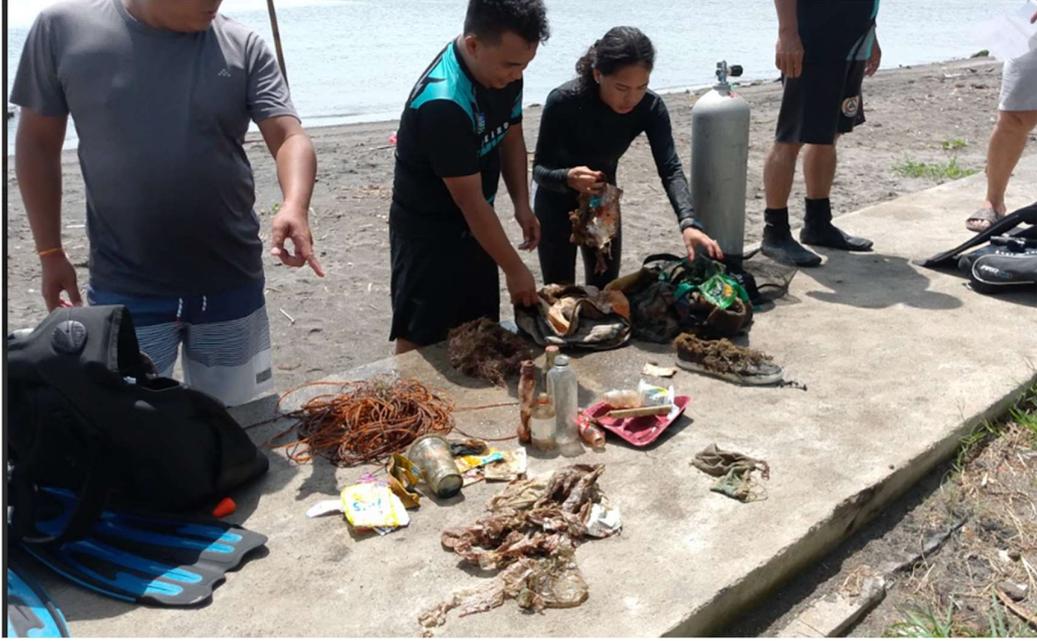


Figure 27. Photo documentation of the diving team while sorting the collected waste from underwater.

Moreover, PENRO Camiguin extended its assistance for a two-day COTS extraction on October 2-3, 2025 at White Island, Medano, Mambajao, which resulted in the removal of 4,344 adult COTS from an area spanning 5.58 hectares. This effort involved 35 participants (17 males and 18 females) from various organizations, including the LGU, PENRO, academic institutions, PCG, BFAR, Bantay Dagat, PNP-Maritime, and dive shops. This event was classified as a severe outbreak, resulting in significant ecological damage to coral reefs.



Figure 28. Photo documentation of the removed COTS from White Island, Medano, Mambajao, Camiguin.

### *Consultation on Fisheries Code*

FT 1 Julie Y. Jadman and CEO Mc Kenly L. Luib participated in a Sangguniang Bayan session to review the Revised Mambajao Fishery Code of 2010. The consultation engaged members of the Sangguniang Bayan, Municipal Agriculture Office, Bantay Dagat, and representatives from the DENR. The same personnel also took part in a follow-up committee-level review, attended by 15 participants (8 males and 6 females), including municipal committee members, the Municipal Agriculture Officer (MAO), the designated Coastal Resource Management Officer (CRMO), fisheries specialists, and the ordinance author. Following the committee-level review, they attended a Public Hearing on September 26, 2025, which gathered 53 participants from various sectors, including the Sangguniang Bayan, BFAFI, MAO, barangay officials, Bantay Dagat, academic representatives, diver groups, and fisherfolk leaders.

### *Focus Group Discussion*

The Coastal and Marine Resource Management Unit (CMRMU) participated in a Focus Group Discussion initiated by the Mambajao Committee on Agriculture, Fishery, and Food Security on September 24, 2025, to develop unified protocols for responses to Crown-of-Thorns outbreaks. The meeting included representatives from LGU Mambajao, PCG, BFAFI, Bantay Dagat, and DENR staff.

### *PLGU Camiguin*

PENRO Camiguin also provided technical assistance during the SCUBA surero/underwater cleanup on June 24, 2025, at Lagundi Fish Sanctuary, as part of the San Juan sa Hibok-Hibok Festival. This event involved 43 participants (38 males and 5 females) from PENRO Camiguin, the Provincial Local Government Unit (PLGU), LGUs of Mambajao, Mahinog, Sagay, and Catarman, as well as BFAFI, PNP, PNP Maritime, PCG, and various dive groups. A total of 78.3 kilograms of underwater waste was collected, and the presence of Crown-of-Thorns was noted, highlighting the need for ongoing monitoring and management measures.

### *BLGU Binaliwan in Mahinog, Camiguin*

On April 4, 2025, the CMRMU conducted an Information, Education, and Communication (IEC) activity for the Barangay Council of Binaliwan, focusing on the significance of Marine Protected Areas (MPAs), their ecological roles, and management guidelines. This session was attended by 23 participants (11 males and 12 females), comprising Barangay Council members and DENR personnel.

### *LGU Mahinog*

On October 2, 2025, PENRO Camiguin provided technical assistance to LGU-Mahinog through a biophysical assessment at the Benoni Marine Sanctuary. This assessment involved 12 participants (8 males and 4 females) from PENRO, LGU staff, and a dive instructor. The evaluation examined reef fish density, biomass, and diversity within and outside the MPA, revealing decreased fish density and diversity, while biomass of major fish species increased. This indicates partial recovery but underscores the need for enhanced enforcement and continuous monitoring of the sanctuary.

Additionally, the assessment revealed a decline in live hard coral cover from excellent to good conditions.



Figure 29. *Photo documentation of the divers during the biophysical assessment at Benoni Marine Sanctuary.*

*Philippine Statistics Authority*

In support of coastal initiatives, the CMRMU assisted the Philippine Statistics Authority (PSA) during the International Coastal Cleanup (ICC) on September 12, 2025, at Cabua-an, Poblacion, Mambajao. The activity engaged 18 participants (10 males and 8 females) and resulted in the collection of 61 kilograms of assorted coastal debris along a 200-meter shoreline stretch. The Office facilitated site coordination, waste documentation, and proper disposal procedures, enhancing PSA's environmental advocacy and contributing to broader ICC efforts within Mambajao.



Figure 30. *Photo documentation of the participants during the International Coastal Cleanup celebration initiated by PSA at Cabua-an, Poblacion, Mambajao, Camiguin.*

Continuing its coastal support, the CMRMU assisted PSA during the National Statistics Month coastal cleanup on October 28, 2025, at Boloc-boloc, Mambajao. This effort involved 9 participants (6 males and 3 females), including 1 from PENRO Camiguin and the remainder from PSA. Together, the team successfully collected and disposed of 16.3 kilograms of assorted coastal waste, with CMRMU facilitating site coordination, monitoring, and documentation to reinforce PSA's commitment to data-driven environmental stewardship and community engagement.

*TESDA-Camiguin School of Arts and Trades (CSAT)*

As part of ongoing support to partner institutions, the CMRMU provided technical assistance to TESDA-CSAT during its Earth Month coastal cleanup on April 25, 2025, at Sitio Boloc-boloc, Poblacion, Mambajao. This event engaged 31 volunteers (12 males and 19 females), with 29 from CSAT and 2 from PENRO Camiguin, who collectively collected approximately 76.3 kilograms of coastal waste, including significant quantities of plastic bags, beverage bottles, and other single-use plastics.



Figure 31. Photo documentation of the participants of the coastal cleanup in celebration of Earth month at Sitio Boloc-boloc, Poblacion, Mambajao.

*DA-BFAR*

In furtherance of its coastal resource management initiatives, the CMRMU participated in the 4th FishCoRe Project Implementation Support Mission on March 3, 2025, at Paras Beach Resort, where PENRO Camiguin provided updates on the Camiguin-Wide MPA Network. The meeting included representatives from the World Bank, DA-BFAR, municipal LGUs, and coastal resource officers, discussing priority interventions for MPA strengthening, COTS management, habitat monitoring, and potential project support for equipment and livelihood assistance. On July 3, 2025, FT II Rose Ann C. Baron and FT I Julie Y. Jadman took part in the FishCoRe Project Livelihood Scoping Activity held at Villa Paraiso Apartelle, Mambajao, as part of their continuing support for coastal resource management initiatives.

On October 23, 2025, FT II Julie Y. Jadman and FT I Marjun S. Anoc participated in the Provincial Consultation on the Salt Industry Project at Duminikaw Vibes Resort, Sagay, attended by 18 participants (7 males and 11 females) from PCA,

DENR, BFAF, municipal agriculturists, CRM officers, and local People's Organizations. The session focused on the requirements outlined in DENR Administrative Order 2024-12 for identifying public lands suitable for salt production, with PENRO Camiguin seeking clarifications regarding mapping and procedural guidelines to support project implementation in the province.

*J.H. Cerilles State College*

On April 2–3, 2025, PENRO Camiguin hosted a CEPA and lecture activity for 82 fourth-year Environmental Science students and faculty members from J.H. Cerilles State College, Zamboanga del Sur. This two-day engagement included presentations on the PENRO Camiguin Office Profile, the ecology and management of the Mt. Timpoong-Hibok-Hibok Natural Monument, and an overview of the Camiguin-Wide Marine Protected Area Network, including initiatives for biodiversity conservation and monitoring of threatened species. An interactive open forum allowed students to inquire about ecotourism policies, environmental issues, and volcanic monitoring. On the following day, the group visited the flying fox roosting site in Catarman, observed the release of rescued wildlife, and conducted a site visit to the BDFE PO KASAMMA to learn about community-based livelihood activities. This experience significantly enhanced the students' understanding of ecotourism, biodiversity conservation, and community-based environmental management.

#### 4.3 Technical Assistance on Marine Protected Area Networking on Locally-managed Marine Protected Area Networks

*A. Institutionalization of Gingoog Bay Alliance MPAN (GBA-MPAN) under PENRO Misamis Oriental*

For CY 2025, with the assistance provided by PENRO Misamis Oriental and CENRO Gingoog City, the GBA-MPAN accomplished 100% the milestone activities that resulted in a total of 57.14% institutionalization of the network. Key accomplishments were the conduct of performance monitoring using the Comprehensive Assessment Tool and the conduct of the Network Effectiveness Assessment Tool (NEAT) as part of the monitoring process of the networks.

*B. Strengthening of the Macajalar Bay MPAN (MB-MPAN) under PENRO Misamis Oriental*

In 2025, significant progress was made in strengthening the Macajalar Bay Marine Protected Area Network (MPAN) with the technical support of PENRO Misamis Oriental and CENRO Gingoog City. The target was 100% accomplished that resulted in the 53.84% accomplishment of the strengthening phase of the network. Key achievements included the completion of underwater assessments that revealed "good to excellent" coral reef conditions in several Locally-Legislated Marine Protected Areas (LLMPAs) such as El Salvador, Salay, Laguindingan, and Binuangan. The MPAN Strategic Plan (2026-2030) was adopted, and the Sustainable Financing Plan (SFP) was developed to ensure long-term funding for MPAN projects, integrating these plans into local governance frameworks.

A major policy outcome was the approval of the FMA-9 Sardines Fisheries Management Plan in response to declining sardine stocks in Macajalar Bay. This plan

includes measures such as a closed season, reduced fishing days, and a ban on new commercial vessels. Additionally, the MPAN Council endorsed the proposal to increase annual contributions from the Provincial Government of Misamis Oriental and Cagayan de Oro City starting in 2026 to ensure continued financial support for the network's activities. Efforts also focused on harmonizing local ordinances to standardize management practices across municipalities.

Throughout the year, RARE Philippines provided funding for MBDA LGUs under the RARE TRANSCEND project, aiming to support community-based marine conservation efforts. The establishment of a Marine Protected Area Networking Fund, to be sourced from LGU development funds, was proposed as a key mechanism for ensuring the financial sustainability of the MPAN. Moving into 2026, the focus will be on fully implementing the Strategic Plan, advancing the SFP, and expanding MPAN activities to strengthen the health of Macajalar Bay's marine ecosystems.

*C. Strengthening of the Iligan Bay Alliance of Misamis Occidental MPAN (IBAMO-MPAN) under PENRO Misamis Occidental*

Under the Technical Assistance on MPA Networking target CMEMP, PENRO Misamis Occidental successfully facilitated and completed 100% of the planned deliverables for the 100% strengthening of the Iligan Bay Alliance of Misamis Occidental (IBAMO) in CY 2025, significantly strengthening inter-LGU governance and coordination. This accomplishment was anchored on a series of Executive and Special Executive Meetings, beginning with the IBAMO Executive Meeting on June 11, 2025, in Sinacaban, Misamis Occidental, which confirmed quorum, approved prior minutes and agenda, and formally presented and affirmed IBAMO's governance and operational mechanisms. A major milestone was the establishment and operationalization of eight Technical Working Committees—Habitat Enhancement, Monitoring and Evaluation, Research and Development, Information and Education Campaign, Fishery Law Enforcement, Institutional Capacity Building, Livelihood, and Tourism—with clearly defined functions, leadership, and member agencies, including the approval of newly created committees to further strengthen Alliance operations.

Substantial progress was likewise achieved in institutional and financial planning. The IBAMO Work and Financial Plan for CY 2025–2031 was presented and approved, providing a multi-year operational roadmap for the Alliance. The draft Memorandum of Agreement (MOA) underwent extensive review across multiple meetings, incorporating key recommendations to clarify representative authority, strengthen financial provisions, and formally include national government partner agencies. Membership expansion to include LGU Clarin was proposed and deliberated, while issues on counterpart contributions—₱100,000.00 annually from each member LGU and ₱500,000.00 from the Provincial Government—were carefully assessed in compliance with R.A. 7160 and Commission on Audit rules, with funds to be managed as a Trust Fund. These deliberations demonstrated IBAMO's commitment to financial accountability, legal soundness, and long-term sustainability.

The October 9 and October 28, 2025 Executive and Special Executive Meetings further solidified IBAMO's role as a functional MPA networking mechanism. Key outcomes included the continued refinement of the MOA, the presentation and review of the Harmonized Municipal Fisheries Code, and the integration of development opportunities such as the FishCore Project, with LGUs encouraged to submit project

proposals for funding support. Although the final signing of the MOA and election of officers were deferred due to the absence of key officials, clear agreements were reached to proceed with SEC registration, conduct follow-up meetings in coordination with the Provincial Governor, and ensure LGU-level adoption of harmonized fisheries policies through ordinances. Overall, the series of engagements facilitated by PENRO Misamis Occidental resulted in strengthened institutional arrangements, clarified financial and policy frameworks, and enhanced multi-stakeholder participation—fully accomplishing the CMEMP Technical Assistance on MPA Networking target for IBAMO and laying a firm foundation for sustained coastal and marine resource management in Iligan Bay.

## **5. Knowledge Management**

The Coastal Resources and Foreshore Management Section (CRFMS) of the Conservation and Development Division, DENR Region 10, carried out several key activities under the Knowledge Management (KM) component of the Coastal and Marine Ecosystems Management Program (CMEMP). These efforts focused on enhancing the regional database, maintaining the CMEMP website, and strengthening digital systems to support efficient information management.

### **A. Procurement of essential digital tool and ICT equipment**

CRFMS initiated the procurement of essential digital tools—Google Drive/Google One, GoDaddy web hosting, and Canva editing software—to support online data storage, website functionality, and the production of communication and IEC materials. Regular maintenance of the CMEMP website was also carried out, including WordPress updates, plugin security checks, and the uploading of various accomplishment and CEPA reports to enhance accessibility and public awareness. Preventive maintenance of ICT equipment, such as system cleaning and inspection, ensured continuous and reliable operations.

In addition, the office facilitated the procurement of Solid-State Drives (SSDs), a 5G Wi-Fi dongle, LCD monitors, webcams, headphones, and a printer to upgrade existing workstations and improve overall efficiency. These enhancements further strengthened the section's capability to manage data, support field and office operations, and maintain uninterrupted workflow.

CY 2025 ANNUAL ACCOMPLISHMENT  
DENR-10 COASTAL AND MARINE ECOSYSTEMS MANAGEMENT PROGRAM

**PURCHASE ORDER**  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
Region 10, Purok, Cagayan de Oro City

Supplier: **REBUCAST AND PRINTING SERVICES** P.O. No: **2025-06-0160**  
Address: **ZONE 4 BONBON CAGAYAN DE ORO CITY** Date: **4-29-25**  
TIN: **93831777** Mode of Procurement: **Shopping**

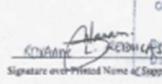
Guidelines:  
Please furnish this Office the following articles subject to the terms and conditions contained herein.

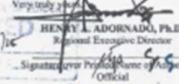
Stock/Property No.	Unit	Description	Quantity	Unit Cost	Amount
account: orfms.10@gmail.com		Canva Online Design Tool	1	5,000.00	5,000.00
account: orfms.10@gmail.com		GoDaddy Webhosting Services	1	13,600.00	13,600.00
lot		Annual Premium Subscription Google online Storage google drive storage	1	22,000.00	22,000.00

accounts:  
1. pfmart1@gmail.com  
2. r10.fms@gmail.com  
3. orfms.10@gmail.com ✓

**Total Amount in Words: Forty thousand, six hundred pesos only** 40,600.00

In case of failure to make the full delivery within the time specified above, a penalty of one-fourth (1/4) of one percent for every day of delay shall be imposed on the undelivered items.

Confirms:  Signature over Printed Name of Supplier  
Date: **5/14/2025**

 Signature over Printed Name of Regional Executive Director  
Date: **07 MAY 2025**  
Designation: **Regional Executive Director**

Fund Class: **01**  
Funds Available: **40,600.00**  
Signature over Printed Name of Chief Accountant/Chief of Accounting Division/Unit:   
6605ebcd54a P.R. No. 2025-02-0013 (old)

Figure 32. Purchase Order served for Google Drive/Google One, GoDaddy Web Hosting Services, and the Canva Online Editing Tool



Figure 33. Strengthening ICT systems through the procurement of equipment to support efficient operations and enhanced service delivery.

The Coastal Resources and Foreshore Management Section (CRFMS) of the Conservation and Development Division, DENR Region 10, carried out several key activities under the Knowledge Management (KM) component of the Coastal and

Marine Ecosystems Management Program (CMEMP). These efforts focused on enhancing the regional database, maintaining the CMEMP website, and strengthening digital systems to support efficient information management.

**B. Participation in BMB-Conducted CMEMP IS Capacity-Building Activities**

To strengthen regional capacity for the implementation of the CMEMP Information System (CMEMP IS), personnel from DENR Region 10 participated in two capacity-building activities conducted by the Biodiversity Management Bureau (BMB). The User Acceptance Testing (UAT) of the CMEMP IS was conducted on May 18–23, 2025, followed by the Training of Trainers (ToT) on June 15–18, 2025. These activities enhanced the participants' technical knowledge on system functionality, data management, and cascading of CMEMP IS implementation at the regional and field levels.

**Participants from DENR Region 10**

User Acceptance Testing (May 18–23, 2025)

1. Kim Peter Galve – DFM I
2. Alde Eleanor Callanta – EMS I

Total Participants (UAT): 2

Training of Trainers (June 15–18, 2025)

1. Kim Peter Galve – DFM I
2. Jayrald Santamina – EMS II

Total Participants (ToT): 2

Overall Total Participants from Region 10: 3 personnel

*(Note: Mr. Galve attended both activities)*

It is noted that the CMEMP Information System has not yet been officially launched and is currently undergoing further enhancement and refinement by BMB, based on consolidated user feedback and recommendations from various regions during the UAT and ToT activities.

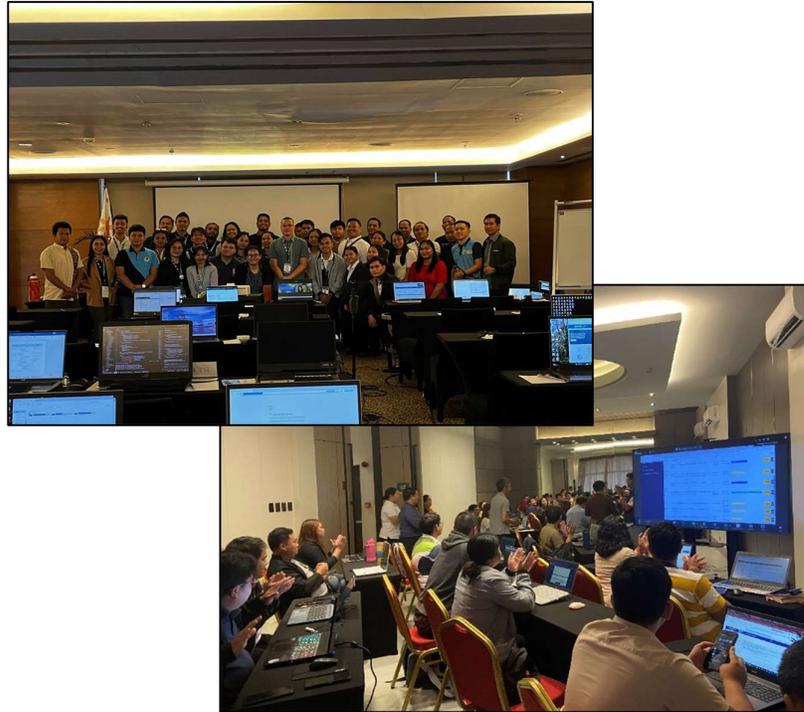


Figure 34. Participation in two key trainings conducted by BMB: the User Acceptance Testing of the CMEMP Information System on May 18–23, 2025, and the Training of Trainers on June 15–18, 2025, equipping CRFMS with the technical skills needed for the rollout of the new AGOS: CMEMP IS.

### C. CRFMS Document Tracking System

CRFMS enhanced its Document Tracking System—covering incoming, releasing, and approved documents—through the integration of autogenerated unique document codes and improved component-based sorting. Each document now receives a system-generated identifier along with an assigned due date, enabling quick identification of the document type, year, and sequence. Additional upgrades include enhanced filtering and sorting per CMEMP component, automated timestamps and status updates, and a built-in audit trail to record user actions.

These improvements streamlined document retrieval and release processes, minimized manual errors and misfiling, and strengthened traceability during review, monitoring, and approval stages. Overall, the enhanced system ensures more efficient and organized document management within CRFMS.

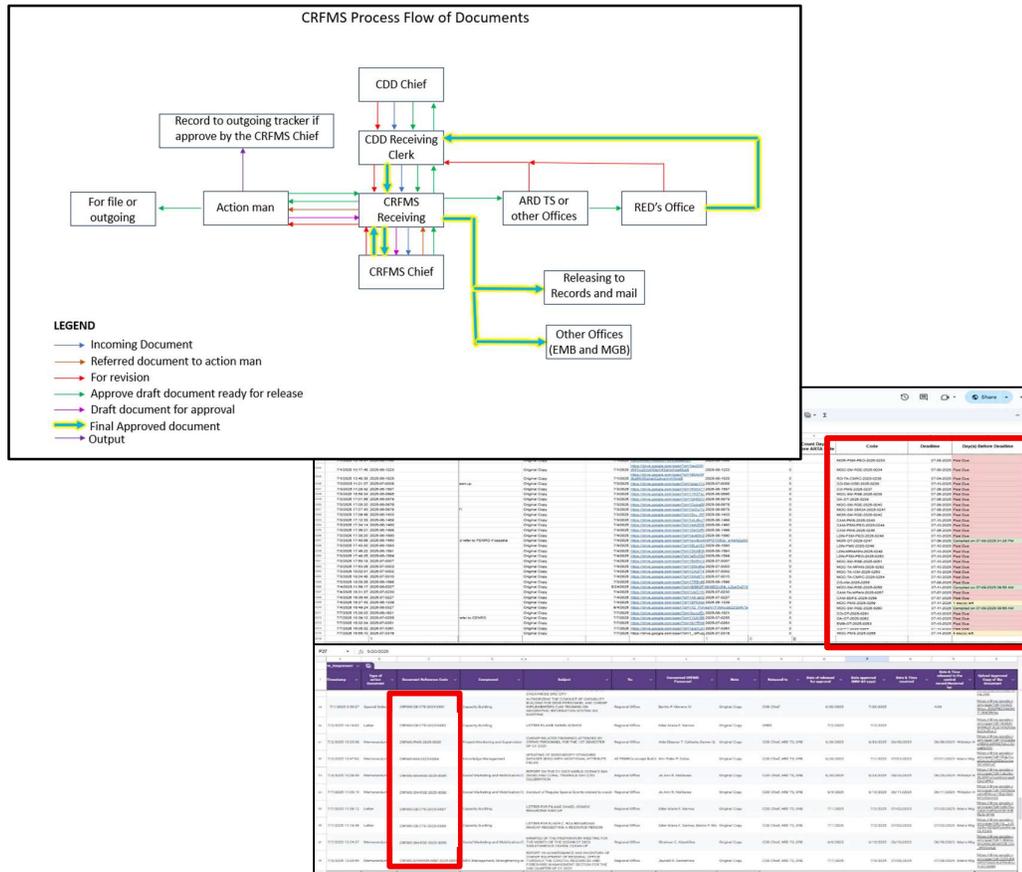


Figure 35. Streamlined document control with autogenerated document code and component-level sorting for faster retrieval and better traceability, and document tracking flow.

#### D. CMEMP Database

CRFMS also developed the CMEMP Coastal ENR Database, an online platform designed to centralize, organize, and monitor ENR-related assessments submitted by field personnel. The system features dedicated data forms and viewing modules for key CMEMP components, including Coral Reefs, Mangroves, Seagrass, MPA Management, Special Events, Capacity Building, ICM, and equipment inventories, as shown in the figure.

Through this database, field implementers can directly upload their annual assessment results, geotagged photos, activity reports, and other relevant datasets. This allows CRFMS to efficiently track yearly accomplishments, monitor whether field units have met their targets, and ensure consistency in ENR data reporting. The platform also supports real-time data retrieval, enabling more informed decision-making, streamlined documentation, and easier consolidation of CMEMP accomplishments at the regional level.

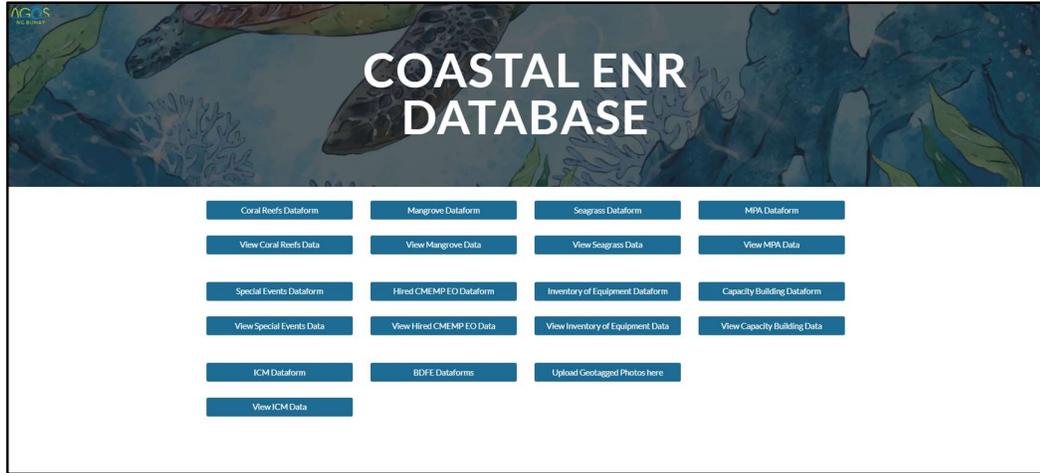


Figure 36. CMEMP Coastal ENR Database interface showing component-specific data entry forms and viewing modules used for tracking annual ENR assessments and field accomplishments.

### E. CMEMP Website

CRFMS continues to maintain and enhance the CMEMP website (cmemp.online) as the official online platform of the DENR Region 10 dedicated to showcasing coastal and marine activities across Northern Mindanao. The website serves as a centralized digital space where stakeholders, partner LGUs, and the general public can access updates related to the region’s coastal resource management efforts, including social marketing events, community engagements, CEPA initiatives, accomplishments, and IEC materials. It also highlights timely posts on current environmental issues, conservation programs, hotspot monitoring, and other CMEMP interventions carried out within the coastal municipalities of Region 10.

Through this platform, DENR Region 10 is able to share real-time documentation of its field activities—such as MPA monitoring, coastal clean-ups, mangrove assessments, seagrass surveys, capacity-building events, and community-based coastal initiatives—allowing greater transparency and public awareness of ongoing ENR conservation efforts. The website also supports the dissemination of policy updates, regional advisories, and informative environmental content that strengthens public understanding of coastal challenges and the actions taken by the government.

By ensuring regular updates, maintaining website security, and continually improving the layout and user experience, CRFMS keeps the CMEMP website a reliable digital resource that communicates the impact and progress of DENR Region 10’s coastal and marine management initiatives.



Figure 37. CMEMP website (cmemp.online) showcasing DENR Region 10's coastal and marine activities, accomplishments, IEC materials, and environmental updates.

## F. Standardization and Updating of Biodiversity Spatial Datasets for CY 2025

As part of the Knowledge Management activities for CY 2025, the Biodiversity Spatial Dataset (BSD) was updated and consolidated in accordance with the prescribed BSD template. Pursuant to the Memorandum dated July 1, 2025, coastal PENROs were required to populate the required BSD attribute fields and submit updated spatial datasets during the 3rd quarter. The updating process focused on ensuring that both existing and newly submitted biodiversity spatial data accurately reflected the location, extent, and condition of coastal and marine resources based on the latest field assessments and monitoring results.

The updating of the BSD aimed to harmonize and standardize reporting among coastal field offices by aligning narrative accomplishment reports with corresponding assessment and monitoring data conducted both within and outside NIPAS–Marine

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Protected Areas (MPAs). Using the standardized BSD template, field offices were guided in properly encoding spatial and attribute information for coral reef, seagrass, mangrove, and biodiversity-friendly enterprise (BDFE) datasets, ensuring consistency and completeness of submissions.

Upon receipt of the PENRO compliances, the Regional Office reviewed, updated, and revalidated the submitted datasets. This process involved populating previously blank attribute fields, correcting inconsistencies, and removing duplicate entries across coral reef, seagrass, mangrove, and BDFE data layers. The validated outputs consisted of standardized shapefiles with complete attribute information, which were consolidated to ensure uniform data structure, improved data quality, and enhanced comparability across provinces and assessment sites for CY 2025.

The updated BSD for CY 2025 was subsequently integrated into the DENR One Control Map, enabling regional and national offices to visualize, analyze, and monitor biodiversity conditions using a single, authoritative spatial reference. This integration strengthened data interoperability, supported evidence-based decision-making, and ensured alignment between field-level implementation, regional consolidation, and national biodiversity management initiatives under the CMEMP.

Overall, the updating of the BSD for CY 2025 significantly strengthened the linkage between field assessments, narrative reporting, and spatial data submission. By addressing data gaps, validating attributes, and eliminating duplicate entries, the region enhanced the credibility, consistency, and usability of biodiversity information in support of effective CMEMP implementation.

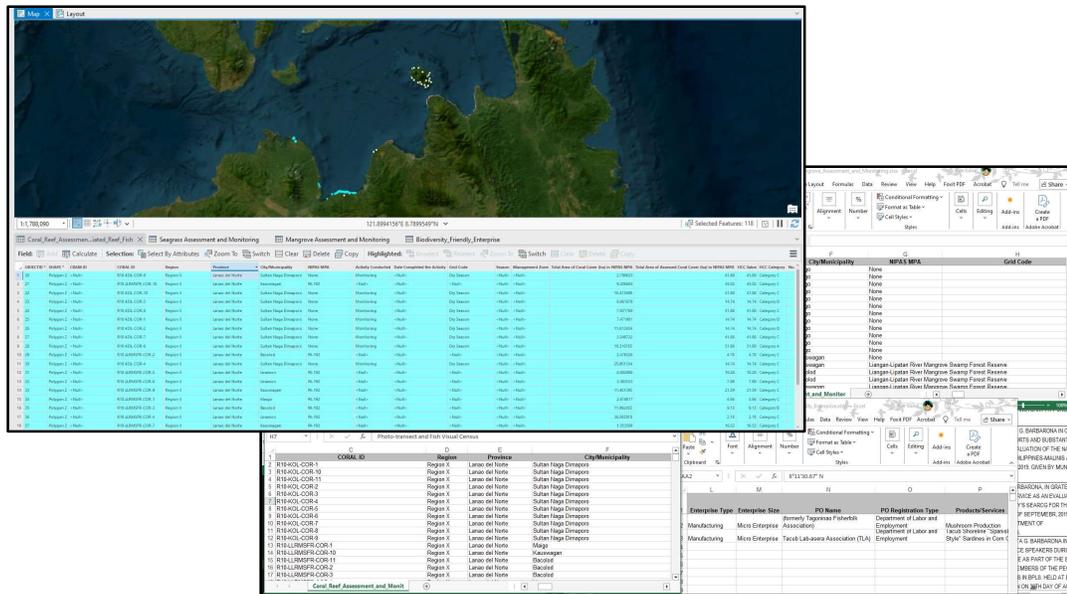


Figure 38. Preparation and validation of Biodiversity Spatial Datasets (BSD) integrating coral reef, seagrass, mangrove assessments, and related monitoring data from coastal field offices in Region 10.

As of 3rd quarter CY 2025, the CRFMS updated and revalidated the BSD shapefiles in coordination with the PENROs but not yet completed/uploaded awaiting for the CMEMP IS launching.

- Coral reef assessment datasets
- Seagrass assessment datasets
- Mangrove assessment datasets
- Biodiversity-Friendly Enterprise (BDFE) datasets

In summary, the Knowledge Management initiatives of DENR Region 10 strengthened the foundation for effective CMEMP implementation by ensuring reliable, harmonized, and accessible coastal and marine data. Through improved digital systems, standardized spatial datasets, and enhanced technical capacity, the region successfully linked field-level assessments with regional and national reporting platforms. These efforts collectively support informed decision-making, consistent program monitoring, and the sustainable management of coastal and marine ecosystems.

## **6. Social Mobilization and Marketing (SMM)/CEPA**

Social marketing and mobilization are integral to the successful implementation of the Coastal and Marine Ecosystem Management Program (CMEMP). This approach aims to raise awareness, promote positive behaviors, and engage communities in sustainable management practices for coastal and marine ecosystems. By utilizing a variety of communication channels and strategies, social marketing endeavors to influence public attitudes and behaviors regarding the conservation and sustainable use of marine resources. Key components of this initiative include educational campaigns, community workshops, and collaborations with local organizations to cultivate a collective sense of stewardship.

Conversely, mobilization efforts concentrate on actively involving community members in practical activities, such as coastal clean-ups, habitat rehabilitation projects or mangrove planting activities, and citizen science initiatives.

These initiatives yield tangible environmental benefits while empowering individuals by granting them a direct role in the stewardship of their local ecosystems.

Together, social marketing and mobilization create a dynamic feedback loop, where heightened awareness fosters increased community engagement, and active participation reinforces the importance of sustainable practices. This comprehensive approach ensures that the objectives of CMEMP are not only understood but also embraced and upheld by the communities they are intended to benefit.

In CY 2025, DENR Region X has only one target subcomponent under SMM through the following:

- A. Conduct of Community Education and Public Awareness (CEPA) activities in line with the various Special events' celebration related to coastal and marine protection, conservation and management.

This year, DENR-X successfully conducted seven marine-related special events, surpassing its initial target of four, resulting in an achievement of 175%. As illustrated below, the additional events held at various locations across the region included World Seagrass Day on March 1, 2024; Month of the Ocean on May 2025; World Ocean's Day on June 8, 2025; Coral Triangle Day on June 9, 2025; International Day for the Conservation of Mangrove Ecosystems on July 26, 2025; International

Coastal Cleanup Day on September 20, 2025; and Coral Bleaching Awareness Month on November 2025.



Figure 39. Summary of the conducted activities in Region X in celebration of Coastal Special Events for CY 2025.

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OFFICE WITH % ACCOMPLISHMENT	ACTIVITIES CONDUCTED PER SPECIAL EVENT
Regional Office <b>175%</b>	WSD - World Seagrass Day - Underwater Cleanup WOD - World Ocean's Day - CEPA MOO - Month of the Ocean - Coastal Cleanup & Underwater Cleanup CTD - Coral Triangle Day - Underwater Cleanup ICC - International Coastal Cleanup - Coastal Cleanup & Songposium IDCME - International Day for the Conservation of Mangrove Ecosystems - CEPA Coral Bleaching Awareness Month - Songposium
PENRO Camiguin <b>125%</b>	WSD - World Seagrass Day - Underwater Cleanup WOD - World Ocean's Day - Coastal Cleanup MOO - Month of the Ocean - Coastal Cleanup & Distribution of IEC Materials CTD - Coral Triangle Day - Coastal Cleanup ICC - International Coastal Cleanup - Coastal Cleanup
PENRO Misamis Oriental <b>125%</b>	WSD - World Seagrass Day - CEPA WOD - World Ocean's Day - CEPA, Underwater Cleanup MOO - Month of the Ocean - Cleanup CTD - Coral Triangle Day - CEPA ICC - International Coastal Cleanup - Cleanup
Initao-Libertad Protected Landscape and Seascape/CENRO Initao <b>125%</b>	WSD - World Seagrass Day - CEPA WOD - World Ocean's Day - Cleanup MOO - Month of the Ocean - Cleanup CTD - Coral Triangle Day - CEPA ICC - International Coastal Cleanup - Cleanup
CENRO Gingoog City <b>125%</b>	WSD - World Seagrass Day - CEPA & Cleanup WOD - World Ocean's Day - Coastal Cleanup MOO - Month of the Ocean - Coastal Cleanup CTD - Coral Triangle Day - CEPA IDCME - International Day for the Conservation of Mangrove Ecosystems - CEPA ICC - International Coastal Cleanup - Coastal Cleanup
PENRO Lanao del Norte <b>125%</b>	WOD - World Ocean's Day - Coastal Cleanup MOO - Month of the Ocean - CEPA & Coastal Cleanup CTD - Coral Triangle Day - CEPA & Mangrove Planting ICC - International Coastal Cleanup - Coastal Cleanup IDCME - International Day for the Conservation of Mangrove Ecosystems - CEPA
CENRO Iligan City <b>150%</b>	WSD - World Seagrass Day - CEPA WOD - World Ocean's Day - Coastal Cleanup & Mangrove Planting MOO - Month of the Ocean - Coastal Cleanup & Scubasurero CTD - Coral Triangle Day - CEPA IDCME - International Day for the Conservation of Mangrove Ecosystems - Mangrove Growing ICC - International Coastal Cleanup - Coastal Cleanup
CENRO Kolambugan <b>150%</b>	WSD - World Seagrass Day - CEPA WOD - World Ocean's Day - Coastal Cleanup MOO - Month of the Ocean - Coastal Cleanup CTD - Coral Triangle Day - Coastal Cleanup IDCME - International Day for the Conservation of Mangrove Ecosystems - CEPA ICC - International Coastal Cleanup - Coastal Cleanup
Liangnan-Lipatan River Mangrove Swamp Forest Reserve (LLRMSFR) <b>125%</b>	WSD - World Seagrass Day - CEPA WOD - World Ocean's Day - Mangrove Planting MOO - Month of the Ocean - Mangrove Planting IDCME - International Day for the Conservation of Mangrove Ecosystems - Mangrove Planting ICC - International Coastal Cleanup - Coastal Cleanup
PENRO Misamis Occidental <b>150%</b>	WSD- World Seagrass Day - Hanging of Streamers and Social Media Posting MOO - Month of the Ocean- Dalaw turo activity, coastal clean-up, radio broadcasting and social media posting WOD- World Ocean Day - Hanging of Streamers and Social Media Posting, Mangrove planting and coastal clean-up CTI - Coral Triangle Day - Hanging of Streamers and Social Media Posting IDCME- International Day for Conservation of Mangrove Ecosystem - Hanging of Streamers, Social Media Posting and focus group discussion ICC- International Coastal Cleanup Day - Hanging of Streamers and coastal clean-up activity
CENRO Ozamiz City <b>150%</b>	WSD- World Seagrass Day - Hanging of streamers, CEPA Activity, Mangrove planting and coastal clean-up MOO - Month of the Ocean- Hanging of streamers, CEPA Activity, Mangrove planting and coastal clean-up WOD- World Ocean Day - CEPA Activity, Mangrove planting and coastal clean-up CTI - Coral Triangle Day - CEPA Activity, Mangrove planting and coastal clean-up IDCME- International Day for Conservation of Mangrove Ecosystem - Hanging of Streamers and Mangrove planting ICC- International Coastal Cleanup Day - Hanging of Streamers and coastal clean-up activity
CENRO Oroquieta City <b>100%</b>	MOO - Month of the Ocean- Coastal Clean-up Activity WOD- World Ocean Day - Mangrove planting and coastal clean-up CTI - Coral Triangle Day - Hanging of Streamers and Social Media Posting ICC- International Coastal Cleanup Day - Coastal clean-up activity
Baliangao Protected Landscape and Seascape <b>150%</b>	WSD- World Seagrass Day - Hanging of Streamers and Social Media Posting MOO - Month of the Ocean- Dalaw turo activity, coastal clean-up, radio broadcasting and social media posting WOD- World Ocean Day - Hanging of Streamers and Social Media Posting, Mangrove planting and coastal clean-up CTI - Coral Triangle Day - Hanging of Streamers and Social Media Posting IDCME- International Day for Conservation of Mangrove Ecosystem - Hanging of Streamers, Social Media Posting and focus group discussion ICC- International Coastal Cleanup Day - Hanging of Streamers and coastal clean-up activity

Figure 40. Summary of the conducted activities by each implementing office.

### A.1 World Seagrass Day

The Regional Office in collaboration with PENRO Camiguin conducted coastal and underwater clean-up activity in celebration of the World Seagrass Day CY 2025 on March 4, 2025 participated by a total of 32 participants (23 males; 9 females) from the DENR-10 Regional Office with ARD for Technical Services - Ronald D. Gadot, Philippine National Police, Philippine Coast Guard, Blue Season Diving Shop, LGU-Mambajao, dive volunteers and the Provincial Local Government Unit represented by Hon. Rufino Ladao. During the activity, a total of 32.10 kilograms of waste were collected composed of plastic and glass bottles, batteries, bottle cap metals, ripped clothing, fishing nets, carcass of a marine turtle, and other small debris from Mantigue Island in Camiguin.



Figure 41. *Photo documentation of the Scubasurero Team prior to the dive and photo of the team while sorting the collected waste*

As part of the World Seagrass Day celebration, CENRO Gingoog City spearheaded an activity through the conduct of Information, Education, and Communication (IEC) activities on February 28, 2025, at Brgy. Consuelo, Magsaysay, Misamis Oriental. The event included a seagrass species identification activity participated in by members of the Barangay Council, fisherfolk, and students from the local high school with a total of 23 individuals comprising 16 males and 7 females.

Similarly, on February 18, 2025, CENRO Initao carried out a Communication, Education, and Public Awareness (CEPA) campaign for Grade 10 students of Initao National Comprehensive High School (INCHS). In line with the celebration, the office also disseminated World Seagrass Day brochures and organized a clean-up drive at Initao-Libertad Protected Landscape & Seascape (ILPLS) on March 4, 2025. The cleanup resulted in the collection of four (4) sacks of trash, and 28 individuals received informational brochures.

On the other hand, PENRO Misamis Oriental conducted Information, Education and Communication (IEC) for World Seagrass Day 2025 on March 3, 2025 at Baryg. Tabok, Lagonglong, Misamis Oriental. A total of 61 participants attended the activity, consisting of 32.79% male and 67.21% female.

CENRO Oroquieta City also conducted a coastal cleanup on February 28, 2025, at Barangay Danao, Plaridel, Misamis Occidental, with a total of 57 participants (22 females and 35 males) representing a diverse group of stakeholders and partner implementers from the Municipality of Plaridel. Among the key participants were

representatives from the Bureau of Fire Protection-Plaridel, Philippine Coast Guard, Philippine National Police, Sacred Heart College of Calamba, Coconut Consolidated Corporation, BLGU of Danao, PENRO Misamis Occidental, and CENRO Oroquieta City itself. The coastal clean-up drive resulted in the collection of 17 sacks of non-biodegradable waste from the coastal area. The waste collected was estimated to weigh around 480 kilograms. The majority of the waste consisted of used clothing, plastic wrappers, and cellophane, all of which were properly disposed of following the clean-up. This activity not only raised awareness on the importance of preserving our coastal ecosystems but also demonstrated the active involvement of local stakeholders in promoting environmental stewardship.



Figure 42. Photo documentation of the participants prior to the conducted coastal cleanup activity.

PENRO Lanao del Norte successfully conducted the CY 2025 World Seagrass Day celebration through the activities organized by Liangan-Lipatan River Mangrove Swamp Forest Reserve-Protected Area Management Office (LLRMSFR-PAMO), CENRO Kolambagan, and CENRO Iligan City on February 28, 2025, March 3, 2025, and March 4, 2025, respectively. The following are the detailed activities:

The LLRMSFR-PAMO conducted a Community Education and Public Awareness campaign, along with a cleanup drive in Bahug-bahug, Tacub, Kauswagan, Lanao del Norte. This initiative engaged a total of 35 individuals (24 male and 11 female), including personnel from PENRO Lanao del Norte and LLRMSFR-PAMO, Bantay Dagat, SK Councilors, BLGU Tacub officials, 4Ps beneficiaries, fisherfolk, students, and local residents. The lecture focused on the Clean Development Mechanism (CDM), REDD+, and other carbon financing mechanisms for climate change mitigation and adaptation, as well as the ecological role of seagrass. During the cleanup, a total of 20 sacks were filled with 241 kilograms of waste.

CENRO Iligan City also organized an Information, Education, and Communication (IEC) session that emphasized the significance of seagrass meadows, including their ecological benefits, contribution to marine biodiversity, and role in climate change mitigation. This event was attended by 31 participants (10 male and 21 female), comprising senior high school students from Tambacan National High School and personnel from CENRO Iligan City.

Likewise, CENRO Kolambugan also conducted a lecture on seagrass and its importance in the ecosystem. A total of 35 participants (13 male and 22 female) from Esmeraldo Roque Memorial Elementary School and CENRO Kolambugan participated in the activity.



*Figure 43. Photo documentation of the conducted CEPA on Seagrass Ecosystem at Tambacan National High School, Iligan City.*

## **A.2 Month of the Ocean**

The Month of the Ocean (MOO) is an annual observance in the Philippines, celebrated every May to raise awareness about the significance of marine conservation and sustainable ocean management. Established through Presidential Proclamation No. 57, s. 1998, this event highlights the country's rich marine biodiversity and the critical role that oceans play in supporting livelihoods, ensuring food security, and maintaining ecological balance.

In line with this celebration, the Coastal Resources and Foreshore Management Section of the Conservation and Development Division (CDD-CRFMS) at DENR-X Regional Office initiated various activities throughout May.

### *A.2.a Preparatory Meeting for the Simultaneous Coastal Cleanup in Cagayan de Oro City*

On May 13, 2025, the CDD-CRFMS held a preparatory meeting for the coastal cleanup event in Cagayan de Oro City. This meeting aimed to brief participants on the details of the forthcoming activity. A total of 38 individuals attended, consisting of 25 males and 13 females, representing the coastal barangays of Cagayan de Oro City, DENR-X Offices, various agencies, organizations, and private sectors.

The Assistant Chief of the Conservation and Development Division and concurrent Chief of the Coastal Resources and Foreshore Management Section, For. Mercedita G. Barbarona shared the rationale of the meeting which emphasizes each participant's role for the upcoming cleanup activity. She also presented the lined up activities to be conducted for the ocean month celebration.



Figure 44. *Photo documentation of the participants during the online preparatory meeting*

During the meeting, ARD Ronald D. Gadot, Assistant Regional Director for Technical Services extended his grateful appreciation to all participants who shared their time in attending the said meeting. In his message, he emphasized that the cleanup initiative is not just about cleaning up the shores, but it is a powerful statement of each individual’s commitment in protecting marine ecosystems and addressing climate change at a local level. He urged to look beyond the cleanup itself and explore ways to make the coastal areas more resilient to climate change through sustainable waste management practices, restoration of marine habitats, and advocating for stronger environmental policies are just a few avenues to extend such efforts.

Through this preparatory meeting, the list of Barangay focal persons was identified and updated, along with the designated office and contact persons from DENR to assist other participants for the event. Additionally, cleanup protocols and instructions for completing the trash data forms were discussed, and participants' questions and clarifications were addressed.

The City Department of the Interior and Local Government (DILG) has reiterated its support by committing to issue a memorandum to the upland barangays of Cagayan de Oro City, encouraging their participation in the upcoming cleanup initiative. Furthermore, the City Local Environment and Natural Resources Office (CLENRO) has pledged to support this initiative by mobilizing resources and personnel, particularly for the disposal of collected waste.

#### *A.2.b IEC during Monday Convocation*

On May 19, 2025, the CRFMS was assigned to host the DENR-X Monday Convocation. The CRFMS Staff led by For. Mercedita G. Barbarona together with some CDD personnel presented a unique Human Resource Intervention through a dance performance portraying the upcoming coastal cleanup. The message of the said presentation was to encourage the participation of the DENR employees in the upcoming coastal cleanup. The group that was dubbed as the CDD Ocean Trash Warriors, performed to the tune of the song titled “Month of the Ocean”, featuring lyrics originally composed by Ms. Eden Marie F. Gamos, CRFMS Staff. Parts of the lyrics

were crafted based on the cleanup protocol, to remind the participants of their roles and responsibilities during the event. The videos of the presentation are accessible in the link <https://bit.ly/4l04Ydz>.



Figure 45. Photo of the DENR employees during the Monday Convocation as they witnessed the dance performance of the CDD Ocean Trash Warriors.



Figure 46. Photo of the CDD Ocean Trash Warriors during their interpretative performance of the song "Month of the Ocean".

Following the said performance, For. Barbarona rendered a short talk about the Month of the Ocean celebration, highlighting the significance of the coastal and marine resources particularly in combating the effects of climate change. She also reminded the participants, especially the designated Cleanup Focal Persons from the various Divisions of the DENR-X Regional Office, and from the Environmental Management Bureau, and Mines and Sciences Bureau of their specific tasks.

### A.2.c Environmental Symposium

In celebration of the Month of the Ocean and the International Day for Biological Diversity, the DENR–X in collaboration with the Regional Strategic Communication and Initiatives Group (RSCIG), organized an Environmental Symposium conducted on May 22, 2025, at the covered court of Barangay 40 in Cagayan de Oro City with the participation of the SK members of the barangay. The event aimed to raise awareness and educate the youth about the causes and effects of climate change, the importance of proper waste segregation, and effective strategies for adapting to and mitigating environmental challenges.

A total of 57 youth participants from Barangay 40 attended the symposium, which included officials and members of the Sangguniang Kabataan (SK). The event received full support from the Barangay 40 Council, led by Chairman Yam Lam “Alam” Lim, along with councilors Burgos S. Macasero, Ronald V. Redoble, Mildred N. Taladua, Cecilio B. Nacalaban, Kirk A. Rodriguez, Soxy P. Esmá, and Arthur C. Martinez.

The symposium featured a series of informative lectures presented by resource persons from the Department of Environment and Natural Resources (DENR)–Environmental Management Bureau X, DENR X–Enforcement Division, and the Conservation and Development Division (CDD). The topics discussed included:

- Ecological Solid Waste Management presented by *Ms. Chiara Bernadeth Patriana*, Environmental Monitoring Officer of EMB-X.
- Overview of Philippine Biodiversity by *For. Pauly Mae S. Laranjo, EnP, DMO II* of the DENR X Enforcement Division.
- The Importance of Oceans and the Month of the Ocean Celebration delivered by *For. Mercedita G. Barbarona*, Assistant Chief of the Conservation and Development Division and concurrent Chief of CRFMS.

After the lectures, the CRFMS team introduced the “Month of the Ocean Cleanup Protocol” action song and everybody moved into dancing with the song.

The Environmental Symposium achieved its goal of educating and empowering the youth on pressing environmental concerns. The active engagement and participation of the attendees reflected their genuine interest in environmental advocacy. The DENR-X, through RSCIG, reaffirms its commitment to continuing IEC efforts that inspire proactive involvement of communities—especially the youth—in protecting biodiversity and promoting environmental sustainability



The Asst. Chief of the Conservation and Development Division and concurrent Chief of the Coastal Resources and Foreshore Management Section, For. Mercedita G. Barbarona discusses the importance of the Ocean to the youth participants.

Figure 47. Photo of For. Mercedita G. Barbarona and the youth participants during her lecture about the importance of the Ocean Month celebration.

#### A.2.d Simultaneous Coastal Cleanup

On May 23, 2025, a simultaneous coastal cleanup was conducted across the twelve coastal barangays of Cagayan de Oro City, organized by the Coastal Resources and Foreshore Management Section of the DENR-X Regional Office. The cleanup event was conducted annually since 2019 except in years 2020-2021 during the lockdowns caused by the COVID-19. Since then, various organizations, including National Government Agencies, Local Government Units, academic institutions, private sector entities, youth and women's groups, civil society organizations, non-governmental organizations, and community organizations, were invited to participate in the event. The involvement of the upland Barangay Local Government Units from Cagayan de Oro City was facilitated through collaboration with the City Department of the Interior and Local Government (DILG), which mandated the active participation of several upland barangays in the cleanup initiative.



During the short program that was held in Brgy. Lapasan, the Assistant Regional Director for Management Services, shared a message on behalf of the DENR-X Regional Director Henry A. Adornado. In her message, she extended her great appreciation and gratitude to all participants, particularly acknowledging the Barangay Local Government Unit of Lapasan for their unwavering support of DENR-led initiatives. Additionally, she emphasized the importance of promoting and facilitating sustainable practices for environmental preservation.

Figure 48. Photo of Assistant Regional Director for Management Services during her message on behalf of the DENR-X Regional Director Henry A. Adornado.

She underscored that the management of ocean and marine resources is a collective responsibility shared among various stakeholders. Furthermore, she recommended that the BLGU Lapasan install garbage bins along the coastal road, which has evolved into a recreational area, in order to discourage littering and prevent waste from being discarded into the nearby ocean.



Figure 49. Photo of the participants during the short program held at San Juan Dos Covered Court, Lapasan, Cagayan de Oro City prior the actual cleanup.

For. Mercedita G. Barbarona further elaborated the rationale behind the Month of the Ocean celebration. She highlighted the coastal cleanup initiative in Brgy. Lapasan has been ongoing for several years, with the DENR consistently conducting this activity to reduce wastes that end up in the ocean. Additionally, the DENR has implemented other initiatives, such as the installation of a Trash Trap at the Bitan-ag Bridge, designed to capture and minimize waste before it reaches the ocean. Unfortunately, this installation was recently damaged due to severe flooding. Nevertheless, For. Barbarona remains optimistic about the behavioral changes the DENR advocates concerning solid waste management.

The short program concluded with a “Month of the Ocean” dance, led by For. Benito P. Moreno IV and For. Eden Marie F. Gamos. The participants enthusiastically participated in the dance before they finally headed to the cleanup site.



Figure 50. Photo of the participants as they danced to the “Month of the Ocean” action song led by the CRFMS Staff.

A total of 2,053 (791 male, 1,237 female, and 25 LGBTQIA+) volunteers joined the cleanup event, resulting to the collection of 7,829 kilograms of waste with 722 sacks

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filled, in a 13.1 km coastal stretch in Cagayan de Oro City. The collected debris was analyzed and sorted, providing valuable data on the types of waste most commonly found in the area. Plastic beverage bottles topped among other plastic wastes that landed in the top five of the most collected items. This information will aid future initiatives and educational campaigns aimed at reducing plastic waste at the source. Cigarette butts land in the top six which is also concerning, considering their pervasive impact on the environment. Despite their small size, cigarette butts contain harmful chemicals that can contaminate the water and pose a risk to many forms of marine life. The data gathered from the cleanup will support the DENR and local partners in crafting more targeted interventions to address these specific waste challenges.



Figure 51. Photo of the participants during the conducted Month of the Ocean Coastal Cleanup in Barangays Lawasan and Gusa, Cagayan de Oro City.

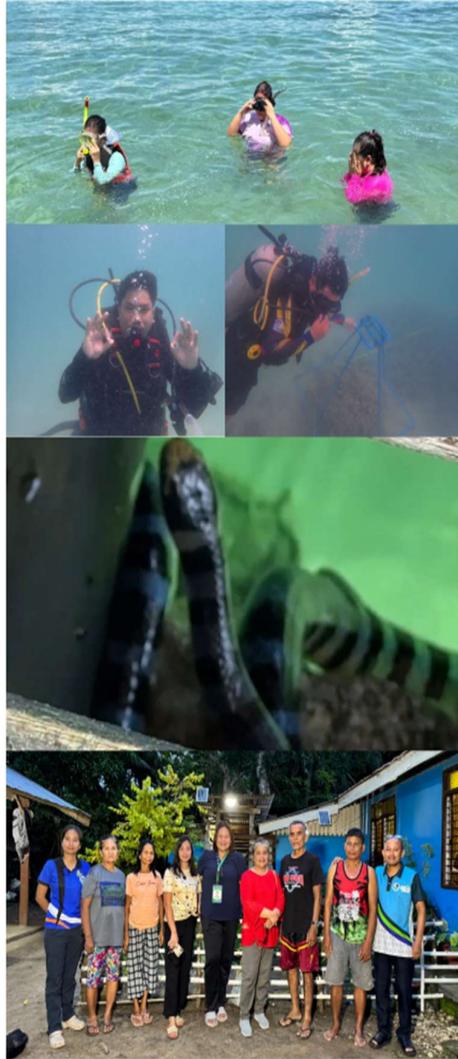
As part of the culminating activity for the month-long celebration of the Month of the Ocean, the CRFMS team conducted an underwater cleanup at the designated

ecotourism zone of Baliangao Protected Landscape and Seascape (BPLS) in Baliangao, Misamis Occidental on May 29, 2025.

The results disclosed an insignificant amount of marine litter/trash present in the said ecotourism zone, with only a few items, including some clothing and a hair tie, collected.

The established coral rehabilitation site was also visited by the team together with the PAMO Staff of the BPLS. Generally, the planted coral nubbins have increased in biomass due to coral recruits. Further, the team visited the floating monitoring station of BPLS and was amazed by the biodiversity indicator observed wherein the monitoring bamboo raft has turned into a safe habitat of the sea snakes.

Figure 52. *Photo of CRFMS and PAMO Staff of the BPLS during their underwater cleanup at the designated ecotourism zone of Baliangao Protected Landscape and Seascape (BPLS).*



*A.2.e Activities Conducted under PENRO Misamis Oriental*

PENRO Misamis Oriental and CENRO Initao spearheaded an activity through the conduct of Communication, Education and Public Awareness (CEPA) campaign and Underwater Clean-up at the Locally Managed Marine Protected Area of Brgy. Poblacion, Libertad, Misamis Oriental on May 16, 2025. The activity was attended by the representatives from the MAO, MENRO, BLGU of Poblacion of the Municipality and Deputized Fish Wardens (DFW)/Bantay Dagat local communities. A total of 10 kilograms of trash were collected during the underwater clean-up, while the CEPA campaign gathered 50 participants, with a gender distribution of 36% male and 64% female.



*A.2.f Activities Conducted under PENRO Misamis Occidental*

PENRO Misamis Occidental displayed the Tarpapel of the MOO celebration in the PENRO premise on April 25, 2025. Also, the said office joined BPLS in the celebration of the said event through a coastal clean-up activity in Brgy. Misom, Baliangao, Misamis Occidental on May 21, 2025. A total of 59 individuals participated from PAMO BPLS and the other stakeholders namely PNP Maritime, BFAR, LGU Baliangao, BLGU Misom, Bantay Dagat Volunteers and PO NAKASINATI. The activity collected 119 kg of residual waste. For the culmination of the event, the Office

joined BPLS-PAMO in a coastal clean-up and mangrove growing activity on May 30, 2025 in Mobod, Oroquieta City.

CENRO Oroquieta City also displayed Tarpapel of the celebration in the CENRO Oroquieta City premise on May 5, 2025. The office also organized a coastal clean-up activity on May 20, 2025 in Barangay Poblacion I to II coastal stretch. A total of 177 kg (28 sacks) of garbage were collected and cleaned on the 500 m coastal stretch by 120 clean-up volunteers from various agencies and offices.

For the culmination, the said office conducted a coastal clean-up and mangrove growing activity on May 30, 2025 in Mobod, Oroquieta City participated by the 75 individuals from PCG, LGU Mobod, Oroquieta Water District, City Agriculture and Fisheries Office. A total of 50 kg of garbage (5 sacks) were collected and cleaned 200m coastline stretch. Also, the participants planted a total of 100 Pagatpat propagules.

Likewise, PAMO-BPLS promoted the special event through radio broadcasting, posting of IEC material to the Offices' Social Media platform and displayed Tarpapel in BPLS, Misom, Baliangao, Misamis Occidental on May 20 and 21, 2025. A coastal-clean-up activity was also conducted on May 21, 2025 in BPLS, Misom, Baliangao, Misamis Occidental in which 59 volunteers from various offices participated in the activity.

*Dalaw – Turo Activity:* A CEPA campaign was also conducted on May 21, 2025 in the Sacred Heart College of Calamba which was participated by a total 21 selected students along with the faculty members. The CEPA was focused on marine awareness, its importance, threats and solutions

#### A.2.g Activities Conducted under PENRO Camiguin



Figure 53. Photo of the participants during the Month of the Ocean Coastal Cleanup in Barangay Cantaan in Guinsiliban, Camiguin Province.

For the 2025 celebration of the Month of the Ocean, the PENRO Camiguin undertook several activities. On May 15, 2025, a province-wide distribution of 250 Information, Education, and Communication (IEC) materials was conducted. Following this, on May 16, 2025, a coastal clean-up took place in Barangay Cantaan in Guinsiliban, Camiguin Province. This event was attended by a total of 70 volunteers, comprising 42 males and 28 females, from various organizations including the Philippine Coast Guard, the Philippine Army, the Bureau of Fisheries and Aquatic

Resources (BFAR), the Provincial Fishery Office, the Cantaan Barangay Local Government Unit (LGU), and the Department of Environment and Natural Resources (DENR) PENRO Camiguin. The clean-up covered approximately a 300-meter stretch of coastline, resulting in the collection of 61 sacks or bags of waste, weighing an estimated 145.48 kilograms, along with 10 discarded tires.

*A.2.h Activities Conducted under PENRO Lanao del Norte*

PENRO Lanao del Norte, CENRO Kolambugan, CENRO Iligan City, and Liangan-Lipatan River Mangrove Swamp Forest Reserve – Protected Area Management Office (LLRMSFR-PAMO) had organized the following activities in celebration of the CY 2025 Month of the Ocean.

PENRO LDN conducted IEC and Coastal Cleanup in Purok 5A, Poblacion, Tubod, LDN on May 21, 2025. A total of 52 (30 male and 22 female) volunteers participated in the event from LGU Tubod, BLGU Poblacion, Municipal Police Station of Tubod, Municipal Fire Station of Tubod, Tubod-Baroy Water District, and PENRO LDN. The said participants filled a total of 20 sacks of waste weighing 228 kilograms in a span of 0.3 kilometers. Top three waste collected are food wrappers (241 pcs.), other plastic bags (145 pcs.), and plastic food containers (143 pcs.)



Figure 54. *Photo of the participants during the conducted Month of the Ocean Coastal Cleanup in Purok 5A, Poblacion, Tubod, Lanao del Norte.*

CENRO Iligan City organized a coastal cleanup and scubasurero in Brgys. Libertad, Tacub, and Kawit, Kauswagan, Lanao del Norte on May 22, 2025. The activity was participated by 87 (32 male and 55 female) personnel from Philippine Coast Guard, CENRO Iligan City and LLRMSFR-PAMO, and collected 73 sacks of waste weighing 165 kilograms. Additionally, the Scubasurero had gathered 7 kilograms of marine litter.

CENRO Kolambugan spearheaded a coastal cleanup activity in Barangay Baybay, Kolambugan, Lanao del Norte on May 22, 2025. A total of 58 volunteers (32 male and 26 female) participated from BLGU Baybay, Batang Baybay Group, Baybay Lawn Tennis Club, SK Chairperson and members, Pantawid Pamilyang Pilipino Program (4Ps) members, and CENRO Kolambugan. The top 3 waste collected are plastic beverage bottles, food wrappers, and plastic lids.

LLRMSFR-PAMO conducted a mangrove planting activity in La Salle, Binuni, Bacolod, Lanao del Norte on May 20, 2025. A total of 3,000 *Sonneratia alba* (Pagatpat) and 700 *Avicennia officinalis* (Miapi) propagules were planted by 50 (37 male and 13 female) volunteers from BLGU Binuni, GN Power Kauswagan, MJ Beach Resort, People’s Organizations, Bantay Dagat, and LLRMSFR-PAMO personnel.

### A.3 World Ocean’s Day

In line with the celebration of the World Ocean’s Day on June 8, 2025, the Regional Office through the CDD-CRFMS conducted a CEPA campaign at the Open-Space Event Center, New Municipal Hall, El Salvador City during their City LGU Convocation Program. For. Mercedita G. Barbarona, Assistant Chief of the Conservation and Development Division and concurrent Chief of CRFMS, advocated the importance of the World Ocean’s Day and Coral Triangle Day celebrations through a short talk, and propelled all LGU personnel to dance with the new IEC Action Song of CRFMS entitled “Alon”



Figure 55. Photo documentation featuring LGU El Salvador employees alongside the CRFMS Team during their performance of the IEC song titled “Alon.”

#### A.3.a Activities conducted under PENRO Misamis Oriental

CENRO Initao conducted a clean-up drive at Initao-Libertad Protected Landscape and Seascape (ILPLS) on June 5, 2025. The activity was attended by 60 participants convening the representatives from the MENRO, Sangguniang Kabataan, BLGU- Tubigan, and PAMO-ILPLS with a gender proportion of 38.3% males and 61.7% females. A total of 30 sacks of garbage collected which includes plastic bottles, bottle caps, plates, food wrappers, plastic straws, liquor bottles, Styrofoam and diapers.

Also, on June 11, 2025, PENRO Misamis Oriental conducted a Communication, Education and Public Awareness (CEPA) campaign at Echavez, Kitchenette, Initao, Misamis Oriental. A total of 20 participants attended the activity convening the MENROs, MAOs, and MPDOs of the Local Government Units covering the bay, from that is from the municipalities of Lugait to Laguindingan of the province. The activity focused on the presentation of the ecological and economic importance of coastal and marine environments to the LGUs and Local communities.

Similarly, CENRO Gingoog, conducted coastal clean-up activity as part of the World Ocean Day celebration at Brgy 18, Gingoog City on June 8, 2025. The activity was participated by Kapunungan sa Pagpangusisa labot sa Gingoog, Functionaries of Brgy 18, and KAPLAG Volunteer. A total of four sacks of waste were collected within the 0.2-kilometer coastline of Brgy. 18, with 16 individuals participating in the activity comprising 8 males and 8 females.

#### *A.3.b Activities conducted under PENRO Misamis Occidental*

PENRO Misamis Occidental celebrated the World Ocean's Day 2025 through mangrove planting in the BPLS, Barangay Misom, Baliangao, Misamis Occidental. A total of 33 volunteer planters participated and planted 50 *Rhizophora stylosa* propagules.

On June 5, 2025, CENRO Oroquieta City celebrated the event through posting of tarpapel at the CENRO Oroquieta City office premises and coastal clean-up activity in Purok 5, Taboc Sur, Oroquieta City together with BFP, PCG, PNP and BLGU Taboc. A total of 51 clean-up volunteers collected 65 kg of garbage (11 sacks) and cleaned a 350m barangay coastline.

Similarly, CENRO Ozamiz promoted the event by displaying a streamer/tarpapel at the CENRO Ozamiz City premise on June 2, 2025. A coastal clean-up activity was then held on June 5, 2025, in Brgy. Lapasan, Clarin, Misamis Occidental, with 203 volunteers participating. The team successfully collected 250 kilograms (50 sacks) of waste, which was then properly disposed of at the sanitary landfill in Brgy. Guba, Clarin, Misamis Occidental.



Figure 56. Photo documentation of the participants during the coastal cleanup held in Brgy. Lapasan, Clarin, Misamis Occidental.

Likewise, PAMO-BPLS promoted the event by posting an IEC material on its official social media platform and displaying a streamer/tarpapel at BPLS, Misom, Baliangao, Misamis Occidental on June 8, 2025. Following the promotion, a coastal clean-up and mangrove planting activity was conducted, participated in by 13

volunteers. The group successfully planted *Rhizophora* propagules over a 0.1-hectare area and collected 37 kilograms (equivalent to 5 sacks) of drifted garbage along a 100-meter coastal stretch.

#### *A.3.c Activities conducted under PENRO Camiguin*

PENRO Camiguin celebrated the World Oceans Day through a coastal clean-up activity held on June 6, 2025, in Barangay Catibac, Catarman, Camiguin.

The activity was joined by personnel from the Philippine Coast Guard, Philippine Army, Barangay Local Government Unit of Catibac, and DENR PENRO Camiguin, with a total of 65 participants (42 males and 23 females). The participants collected about 53.50 kilograms of waste, placed in 43 trash bags or sacks. Most of the trash included plastic bottles, plastic wrappers, foams, sachets, bottle caps, detergent containers, and used footwear. The clean-up covered around 600 meters of the barangay's coastline.



Figure 57. Photo documentation of the participants during the coastal cleanup held in Barangay Catibac, Catarman, Camiguin.

#### *A.3.d Activities conducted under PENRO Lanao del Norte*

PENRO Lanao del Norte conducted coastal cleanup on June 4, 2025 at Purok 5A Poblacion, Tubod, Lanao del Norte per Memorandum dated June 11, 2025. Prior to the cleanup, there was a short program, highlighting the importance of the crucial role of the ocean. A total of 35 participants (20 male and 15 female) joined the cleanup coming from LGU Tubod-MENRO, BLGU Poblacion, Poblacion Women's Group, Tubod Municipal Station, Tubod Municipal Fire Station, and Tubod-Baroy Water District. The participants collected 10 sacks of waste weighing 110 kilograms. The top five collected are food wrappers, other plastic bags, plastic food containers, plastic grocery bags, and beverage pouches. The collected wastes were transported to the Municipal Sanitary Landfill in Brgy. Tubaran, Tubod, LDN for proper disposal.

CENRO Iligan conducted coastal cleanup and mangrove planting activity in Marcelo Fertilizer, Brgy. Ma. Cristina, Iligan City on June 4, 2025. The activity was participated by 53 (38 male and 15 female) volunteers from Iligan City-City Environment and Management Office (CEMO), GN Power Kausgan, Philippine Ports

Authority, Philippine Coast Guard, Republic Cement Iligan Inc. and CENRO Iligan City. A total of 27 sacks of waste were collected weighing 270 kilograms. Additionally, a total of 280 Bakauan propagules were planted.

CENRO Kolambugan spearheaded a coastal cleanup in Brgy. Poblacion, Kolambugan, LDN on June 10, 2025. A total of 83 (47 male and 36 female) volunteers joined the activity from MENRO Kolambugan, BLGU Kulasihan, Kulasihan Fisherfolk Association, and CENRO Kolambugan. The activity resulted in the collection of 62 sacks filled with waste weighing 496 kilograms in a span of 0.3 kilometers. The top five collected items were tiny foam pieces, tiny plastic pieces, food wrappers, plastic grocery bags, and glass beverage bottles.

LLRMSFR-PAMO organized a mangrove planting activity in Brgy. Tacub, Kauswagan, Lanao del Norte on June 5, 2025. The activity started with a short program discussing the importance of the World Ocean's Day celebration. A total of 1,500 propagules of *Rhizophora* species were planted.

#### A.4 Coral Triangle Day

In addition to the CEPA campaign conducted at the Open-Space Event Center, New Municipal Hall, El Salvador City, during their City LGU Convocation Program, the CRFMS Team, with support from CLENRO El Salvador, organized an underwater clean-up at the Burias Shoal Marine Protected Area (MPA) on June 9, 2025 in celebration of the Coral Triangle Day. This initiative was participated by the Bantay Dagat and CLENRO personnel. The types of waste collected included tin cans, glass bottles, plastic bottles, plastic wrappers, plastic spoons, ceramic mugs, and fishing lines. The data gathered underscores the persistent challenges of waste management and the detrimental effects of human activity on marine ecosystems.

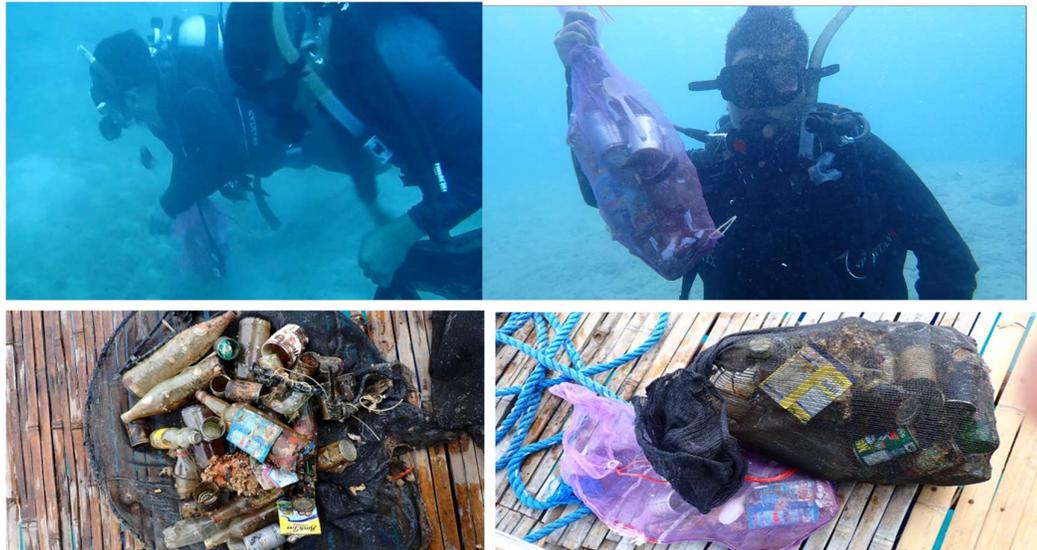


Figure 58. Photo documentation of the CRFMS divers during the underwater coastal cleanup at Burias Shoal MPA, El Salvador City with the collected wastes.

*A.4.a Activities conducted under PENRO Misamis Oriental*

In observance of Coral Triangle Day, CENRO Initao conducted a brief Information, Education, and Communication (IEC) drive highlighting the significance of Coral Triangle Day during their Monday Convocation. It was followed by a SCUBAsurero activity and coral bleaching monitoring. The event was attended by CENRO Initao personnel and representatives from PAMO-ILPLS.

*A.4.b Activities conducted under PENRO Misamis Occidental*

PENRO Misamis Occidental celebrated the Coral Triangle Day 2025 through CEPA activity on June 5, 2025 in BPLS, Misom, Baliangao, Misamis Occidental which was participated by 34 personnel from PAMO-BPLS, MMRNP, and CENROs Oroquieta and Ozamiz City.

CENRO Oroquieta City also celebrated the event on June 9, 2025 through the hanging of tarpapel and distribution of IEC materials relative to the event. The office distributed a total of 50 educational leaflets to the residents, students and barangay officials in Barangay Mobod, Oroquieta City, Misamis Occidental.

*A.4.c Activities conducted under PENRO Camiguin*

PENRO Camiguin conducted a coastal clean-up activity on June 7, 2025 in celebration of Coral Triangle Day, with the theme: “*One Triangle, Infinite Beauty*”, held in Barangay Manuyog, Sagay, Camiguin. The activity was joined by representatives from the Philippine Coast Guard, Philippine Army, Barangay LGU of Manuyog, LGU Sagay, TUPAD-Manuyog, Fisherfolk-Manuyog, BHW-Manuyog, Bureau of Fisheries and Aquatic Resources (BFAR), Camiguin Tourism Association, Mantigue Island Eagles Club, CSAT-TESDA, and DENR PENRO Camiguin.



Figure 59. Photo documentation of some of the participants during the coastal cleanup conducted in Barangay Manuyog, Sagay, Camiguin.

A total of 82 participants took part in the clean-up, consisting of 63 males, 18 females, and 1 LGBTQ+ member. The group cleaned an estimated 800-meter stretch of coastline. During the activity, 57 sacks or bags of waste were collected, weighing about 278.5 kilograms. The most common types of trash found included plastic and glass beverage bottles, hygiene waste, fishing lines and nets, lighters, footwear, torn clothing, bottle caps, cigarette butts, and various kinds of food wrappers and packaging. These types of waste pose serious threats to marine life and coastal ecosystems.

*A.4.d Activities conducted under PENRO Lanao del Norte*

PENRO Lanao del Norte conducted CEPA and Mangrove Planting activity in Purok 5A, Poblacion, Tubod, Lanao del Norte on June 4, 2025. The activity was participated by 35 individuals (20 male and 15 female) coming from LGU Tubod-MENRO, BLGU Poblacion, Poblacion Women’s Group, Tubod Municipal Station, Tubod Municipal Fire Station, and Tubod-Baroy Water District, PENRO Lanao del Norte personnel. A total of 300 *Rhizophora mucronata* and *Rhizophora apiculata* propagules were planted along the coastal area, during the said event.



Figure 60. *Photo documentation of the participants during the mangrove planting conducted in Purok 5A, Poblacion, Tubod, Lanao del Norte.*

On June 10, 2025, CENRO Iligan City conducted a CEPA in Esplanade, Santiago, Iligan City, highlighting the importance of the Coral Triangle celebration, including marine conservation and biodiversity protection. The activity served as a platform to raise awareness and encourage community involvement in marine protection initiatives. A total of 59 participants (27 male and 32 female) from Iligan-CEMO, Shell Pilipinas Corporation, Helix Resources and Development Corporation, GN Power Kauswagan Ltd., and LLRMSFR.

CENRO Kolambugan organized a coastal cleanup initiative in Brgy. Baybay, Kolambugan, Lanao del Norte on June 11, 2025. It was participated by 26 volunteers (17 male and 9 female) from Kolambugan-MENRO, BLGU Baybay, Women’s Association, 4Ps members, Sangguniang Kabataan members, Baybay Lawn Tennis Club, Baybay Batang Group, Seaside Boys, and CENRO Kolambugan personnel. The participants collected a total of 53 sacks of waste weighing 582 kilograms. The majority of the collected debris consisted of plastic wastes including food wrappers, plastic bags, sachets, beverage bottles, straws, and other single-use plastic items.

**A.5 International Day for the Conservation of Mangrove Ecosystems**

The Regional Office through the CDD-CRFMS conducted a CEPA campaign on July 25, 2025 in Punta, Bonbon, Cagayan de Oro City in line with the celebration of CY 2025 International Day for the Conservation of Mangrove Ecosystems with the theme “*Nurturing Mangroves for a Rooted Climate Resilient Community*”.

The activity was attended by a total of 36 participants (16 male and 20 female) composed of the Brgy. Council of BLGU Bonbon, officers and members of the Punta Mananagat and Mangrove Association (PUMMA) and SSFA People’s Organizations, representatives from the City Local Environment and Natural Resources (CLENRO), City DILG Director and staff, and the CRFMS personnel. Highlights of the activity

include the presentation of the Importance of Mangroves and Mangrove Rehabilitation Strategies, Bonbon Mangrove Project Background, and the discussion of the DILG Memorandum Circular No. 2025-066, or the Guidelines for Local Government Units (LGUs) on the Establishment, Management, and Protection of Coastal Greenbelts.

Ms. Ellaine Josephine B. Depaur, City Director of DILG Cagayan de Oro City, emphasized the significance of DILG Memorandum Circular No. 2025-066. These guidelines serve as a strategic tool to strengthen climate resilience, biodiversity conservation, and disaster risk reduction in coastal communities.

The purpose of the guidelines outlined in the memorandum is to equip local government units (LGUs) with a clear and actionable framework for effective coastal management. This framework includes identifying and designating coastal greenbelt zones, implementing protective measures to preserve mangroves, beach forests, and other natural buffers, and engaging communities and stakeholders in sustainable coastal management. Additionally, it emphasizes the importance of integrating greenbelt initiatives into local development and land use plans. Ms. Depaur highlighted the critical role that coastal greenbelts play in mitigating the impact of storm surges, flooding, and coastal erosion. They also provide essential habitats for marine and terrestrial species and support livelihoods through eco-tourism, fisheries, and sustainable harvesting. Furthermore, coastal greenbelts enhance carbon sequestration, contributing to climate change mitigation efforts.

She stressed that LGUs must take proactive steps to protect and rehabilitate coastal ecosystems, not only as a legal mandate but as a moral responsibility to safeguard the well-being of present and future generations. The guidelines also encourage multi-sectoral collaboration, ensuring that national agencies, civil society, and local communities work together toward resilient and sustainable coastal governance.

In her parting message, she emphasized the importance of convening all coastal LGUs of Cagayan de Oro City as part of their mandate to facilitate and implement the said guidelines.



Figure 61. Photos of For. Roel G. Dahonog, Chief of the Conservation and Development Division, delivering a message on behalf of the DENR Regional Executive Director; and Ms. Ellaine Josephine B. Depaur, City Director of DILG Cagayan de Oro City during her discussion about the DILG Memorandum Circular No. 2025-066.

*A.5.a Cleanup activity conducted in PENRO Camiguin*

In celebration of the International Day for the Conservation of Mangroves (IDCM) 2025 with the theme “Nurturing Mangroves for a Rooted Climate-Resilient Community,” the DENR-PENRO Camiguin facilitated a coastal clean-up on July 25, 2025 in Barangay San Miguel, Mahinog, Camiguin. The activity was participated in by 76 individuals (49 males and 27 females) from the Barangay Council of San Miguel, Philippine Army, Philippine Coast Guard, BFAR, Katunggan Park Management Team, LGU-Mahinog, and PENRO Camiguin personnel and staff. Of the total participants, 37 were youth aged 18–35 years, demonstrating active youth involvement in environmental initiatives.



Figure 62. Photo documentation of the participants of the coastal cleanup activity held in Barangay San Miguel, Mahinog, Camiguin.

The clean-up resulted in the collection of approximately 115.15 kilograms of waste materials, mostly non-biodegradable such as food wrappers, plastic bottles, cellophanes, disposable utensils, and cans. The segregated wastes were properly collected and disposed of through the Municipal Environment and Natural Resources Office of Mahinog, ensuring a clean and safe coastal environment.

*A.5.b Cleanup activity conducted in PENRO Lanao del Norte*

The PENRO Lanao del Norte organized various activities spearheaded by the said office, CENROs Kolambugan and Iligan City, and LLRMSFR-PAMO in celebration of the International Day for the Conservation of Mangrove Ecosystems held at various locations on July 25, 2025.

PENRO Lanao del Norte and CENRO Kolambugan spearheaded the Community Education and Public Awareness (CEPA) campaign on Mangrove Ecosystem and Climate Change at Alfreda Genobatan Elementary School in Kulasihian, Kolambugan, Lanao del Norte. A total of 18 students (9 male and 10 female) from Grades V and VI of the said school participated in the activity.



Figure 63. *Photo documentation of the participants during the conducted CEPA campaign at Alfredo Genobatan Elementary School.*

CENRO Iligan City conducted a Mangrove Growing activity in Esplanade, Brgy. Santiago, Iligan City. It was participated by 37 volunteers from the City Environment and Management Office (CEMO) of Iligan City, and employees of Alrose Group of Companies, and CENRO Iligan City personnel with a total of 1,000 *Rhizophora* sp. Planted.

LLRMSFR-PAMO also conducted a mangrove planting activity in Purok 7, Brgy. Tacub, Kauswagan, Lanao del Norte. A total of 2,000 *Rhizophora* sp. were planted by 42 participants (33 male and 9 female) from BLGU Bagumbayan, Sangguniang Kabataan (SK), Fisherfolk, Women's Group, and 4Ps beneficiaries.

## **A.6 International Coastal Cleanup**

### *A.6.a Activities conducted under the Regional Office*

This year, in support of this significant event, the CDD-CRFMS of DENR-X Regional Office organized a simultaneous coastal cleanup activity in the 12 coastal barangays of Cagayan de Oro City per RSO no. 2025-08548. Meanwhile, all other DENR Offices in Region 10 conducted coastal cleanup activity in various sites in collaboration with their respective Local Government Units.

#### *A.6.a1 Online Preparatory Meeting for the Coastal Cleanup*

In preparation for the said event, the CRFMS hosted an online meeting via Google Meet on September 9, 2025. This meeting was attended by 35 focal persons, representatives, and participants from various divisions within the DENR Regional Office, coastal barangays of Cagayan de Oro City, National Government Agencies, academic institutions, the City Local Environment and Natural Resources Office (CLENRO), and the private sector.

During this meeting, the designated cleanup focal persons for each barangay were identified and finalized, alongside the assignment of participating groups, specific cleanup sites, and assembly areas. The cleanup protocol was presented to brief participants on the event's flow, and instructions on filling out the trash data forms were discussed, emphasizing the importance of recording the items collected during the cleanup. Participants were also informed of the necessary forms required to confirm their attendance and provided with links to access ICC materials and other vital reminders for the event's execution.

CY 2025 ANNUAL ACCOMPLISHMENT  
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Figure 64. Photo documentation of the participants during the online preparatory meeting for the CY 2025 ICC celebration.

The said cleanup protocol, other ICC materials, and trash data forms to be used to account the trash collected, were disseminated to the public through the support of the Civil Service Commission and posted in the DENR Northern Mindanao Facebook Page.

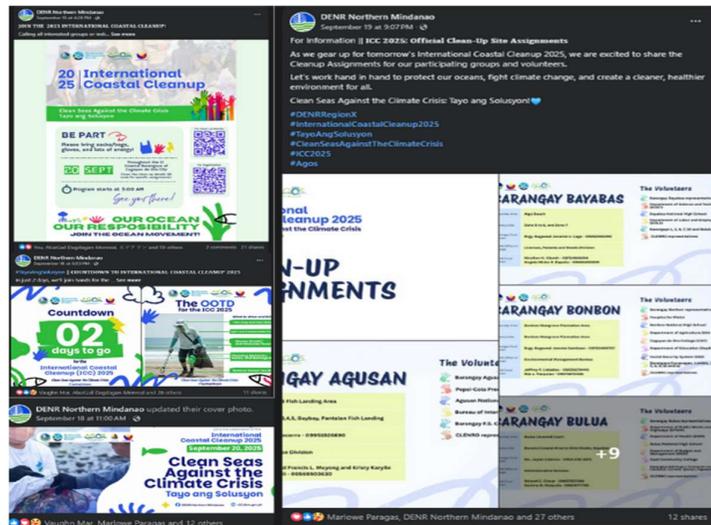


Figure 65. Series of fb posts about the details and important reminders for the cleanup were posted from September 15 to September 19, 2025.

*A.6.a2 Briefing of the assigned DENR Focal Persons*

On September 17, 2025, the CDD-CRFMS convened all DENR Focal Persons assigned to each barangay for a final briefing regarding their specific tasks and responsibilities, with the aim of ensuring the successful execution of the upcoming activity. During this session, they were also provided with the ICC Key Message, which they are expected to communicate during the brief program highlighting the important role of each individual in maintaining clean and sustainable coastal environments.

*A.6.a3 Simultaneous Coastal Cleanup in Cagayan de Oro City*

At 5:00 AM on September 20, 2025, all DENR focal persons were there in their respective assigned barangays. The cleanup activity started with a short ICC program for each barangay across the 12 coastal barangays of Cagayan de Oro City to highlight

the International Coastal Cleanup Day. The main program was in Brgy. Lapasan with the CDD as the program facilitators.



Figure 66. (A) Assistant Regional Director for Technical Services **Ronald D. Gadot** delivers the key message of the ICC celebration; (B) Brgy. Kagawad and Committee on Environment **Yoyong Baconga** expresses his warm welcome to the participants; (C) Asst. Chief of CDD and concurrent Chief, CRFMS **Mercedita G. Barbarona** explains on how to properly fill out the trash data forms; and (D) Photo showing the uniformed personnel group from the BFP, BJMP, PAF, and other participants.

A remarkable total of 3,405 volunteers participated, representing various groups and organizations, including National Government Agencies, Local Government Units, academe, the private sector, and civil society organizations. Barangay Lapasan led the event with the highest participation rate, accounting for 55.4% of volunteers and collecting an impressive 79.3% of the total trash. Youth comprised a significant portion of the participants at 61%, while females represented the majority at 51.4%. Notably, this year's cleanup yielded the highest amount of trash collected in the past three years, totaling 27,685 kilograms.

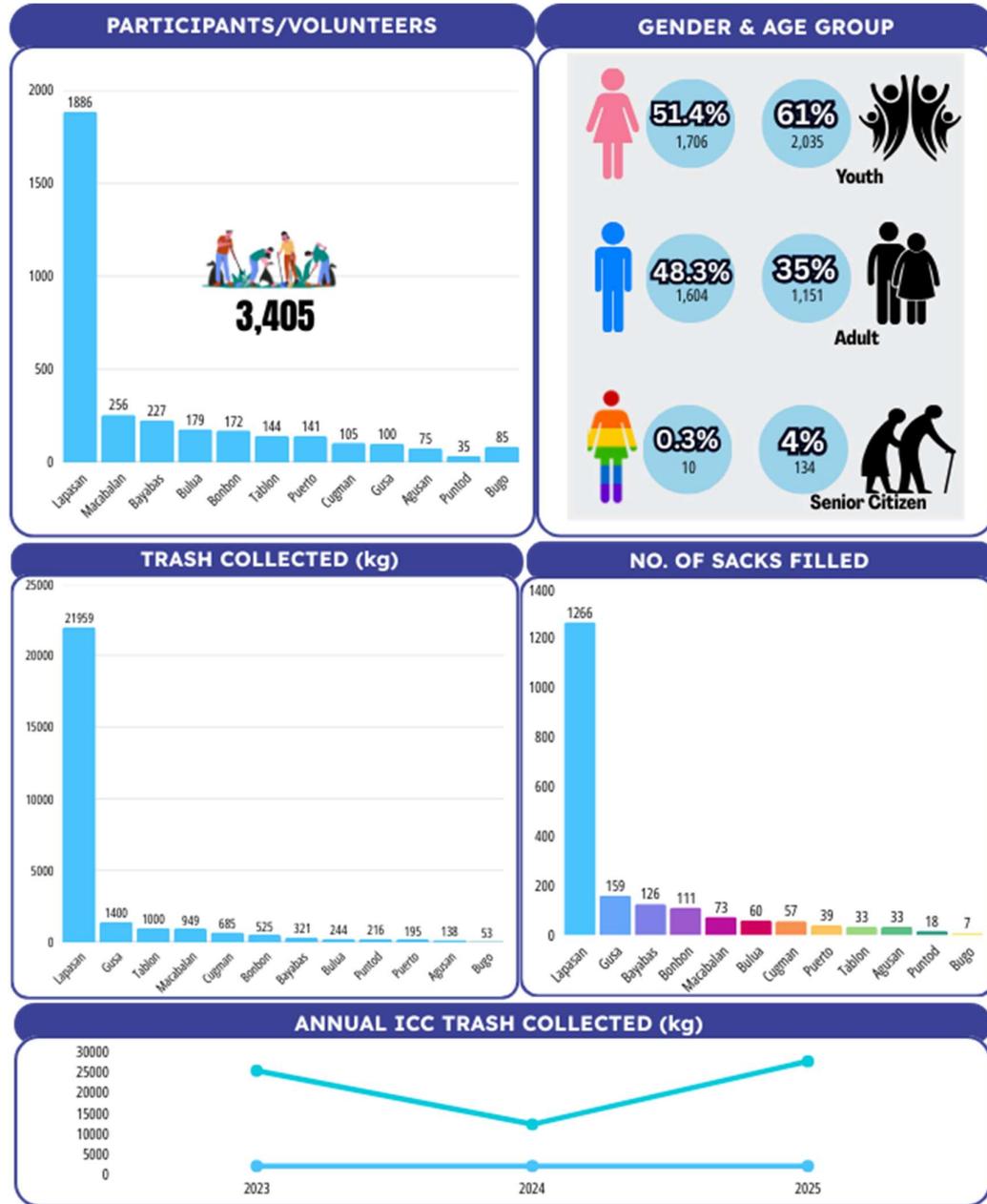


Figure 67. Graphs showing the summary of the data gathered during the International Coastal Cleanup event in the 12 barangays of Cagayan de Oro City.

*A.6.b Summary of the International Coastal Cleanup by Province Level*

The DENR Field Offices also conducted the same event in their respective cleanup sites on September 19-20, 2025. In Region X, a total of 37 cleanup sites have been cleaned across the four coastal provinces. A total of 4,727 participants/volunteers contributed to the effort, with Misamis Oriental supplying the vast majority (3,465), followed by Misamis Occidental (641) and Lanao del Norte (555). The cleanup successfully collected a substantial 33,690 kg of trash, primarily from Misamis Oriental (29,456 kg) and Misamis Occidental (3,089 kg). This collected waste filled 3,077 sacks. The cleanup covered a significant distance of 25.59 kilometers.

Analysis of participation shows that youth were the largest demographic, constituting 61%, with adults making up 35%. Crucially, the data indicated a concerning trend in the battle against marine debris, as the annual trash collected during the International Coastal Cleanup (ICC) in 2025 significantly exceeded the totals recorded in both 2023 and 2024. While this increase highlights active participation, it also signals a troubling rise in waste accumulation in coastal areas. The top 10 items collected overwhelmingly consisted of various forms of plastic, including plastic cups/plates, beverage bottles, grocery bags, food wrappers, sachets, and bottle caps, reinforcing the critical need to address single-use plastic pollution in the region as part of the "Clean Seas Against the Climate Crisis" initiative.

PROVINCE	CLEANUP SITES
Camiguin	Brgy. Kuguita, Mambajao Camiguin
Lanao del Norte	Purok 1, Barangay Tambacan, Iligan City and Purok 6, Palm Court, Tomas Cabili, Iligan City Brgys. Poblacion & Baybay, Kolambugan, Lanao del Norte Brgy. Pigcarangan, Tubod, Lanao del Norte 14 Coastal Barangays covered by Liangan-Lipatan River Mangrove Swamp Forest Reserve namely, Brgys. Libertad, Tugar, Tacub, Bagumbayan, Poblacion, Kawit Oriental, Kawit Occidental, Rupagan, Mainaulom, Demologan, Binuni, Poblacion, Esperanza, & Liangan-East
Misamis Occidental	Baybay Triunfo, Ozamiz City Barangay Misom, Baliangao, Misamis Occidental El Triunfo, Barangay Lower Loboc, Oroquieta City
Misamis Oriental	Brgys. Agusan, Bugo, Bonbon, Bayabas, Bulua, Cugman, Gusa, Lapasan, Macabalan, Puntod, Puerto, & Tablon, in Cagayan de Oro City Brgy. 25 & San Juan, Gingoog City

Table 5. Summary of the CY 2025 ICC sites conducted in each coastal province of Region X.

CY 2025 ANNUAL ACCOMPLISHMENT  
DENR-10 COASTAL AND MARINE ECOSYSTEMS MANAGEMENT PROGRAM

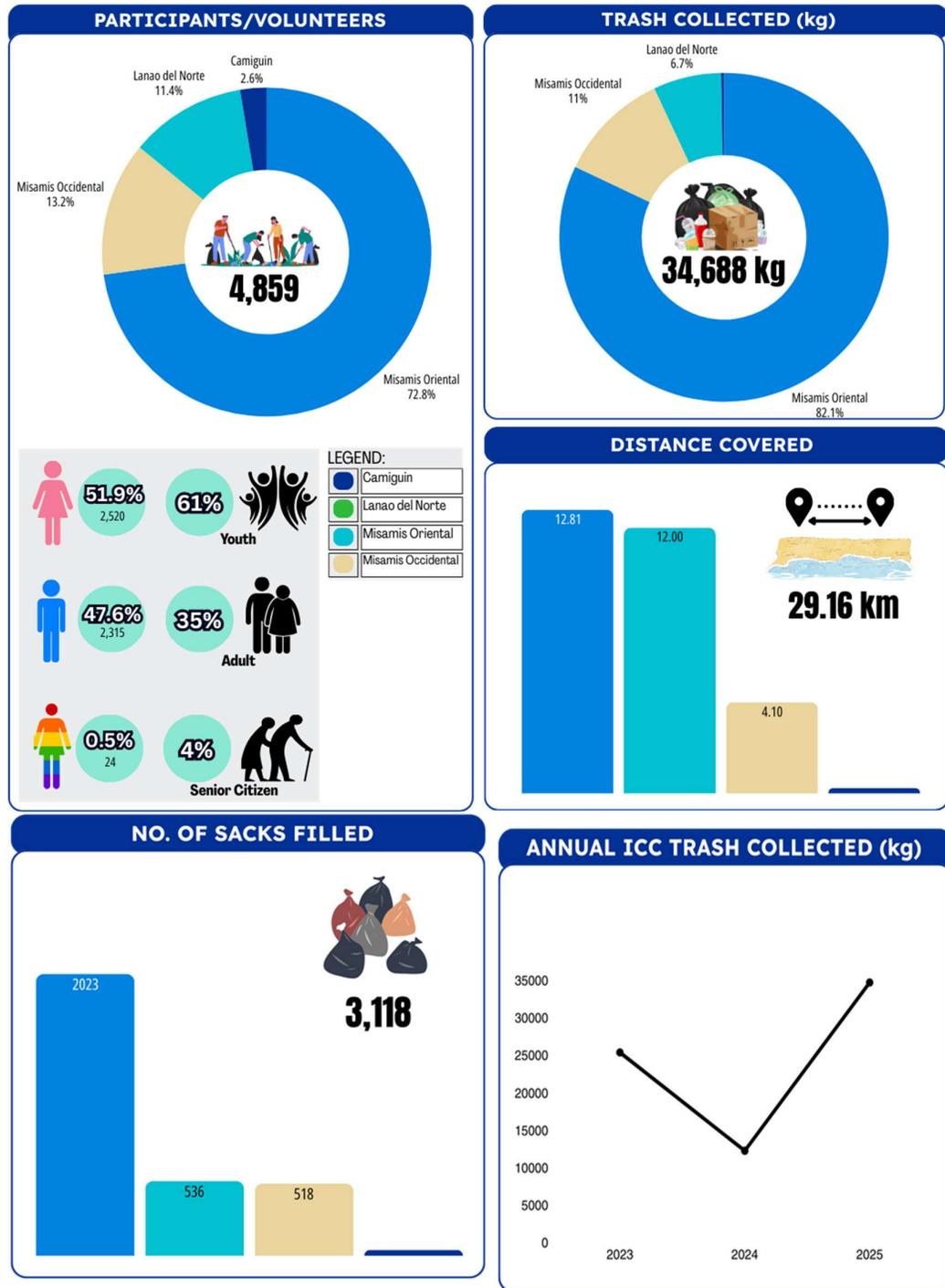


Figure 68. Graphs showing the summary of the data gathered during the International Coastal Cleanup event in various sites of Region X.



Figure 69. Comparison of the top 10 items collected in Cagayan de Oro City and the whole Region X.

CY 2025 ANNUAL ACCOMPLISHMENT  
DENR-10 COASTAL AND MARINE ECOSYSTEMS MANAGEMENT PROGRAM



Figure 70. Photo of the participants during the Simultaneous Coastal Cleanup in Barangays Gusa and Tablon, Cagayan de Oro City.

CY 2025 ANNUAL ACCOMPLISHMENT  
DENR-10 COASTAL AND MARINE ECOSYSTEMS MANAGEMENT PROGRAM

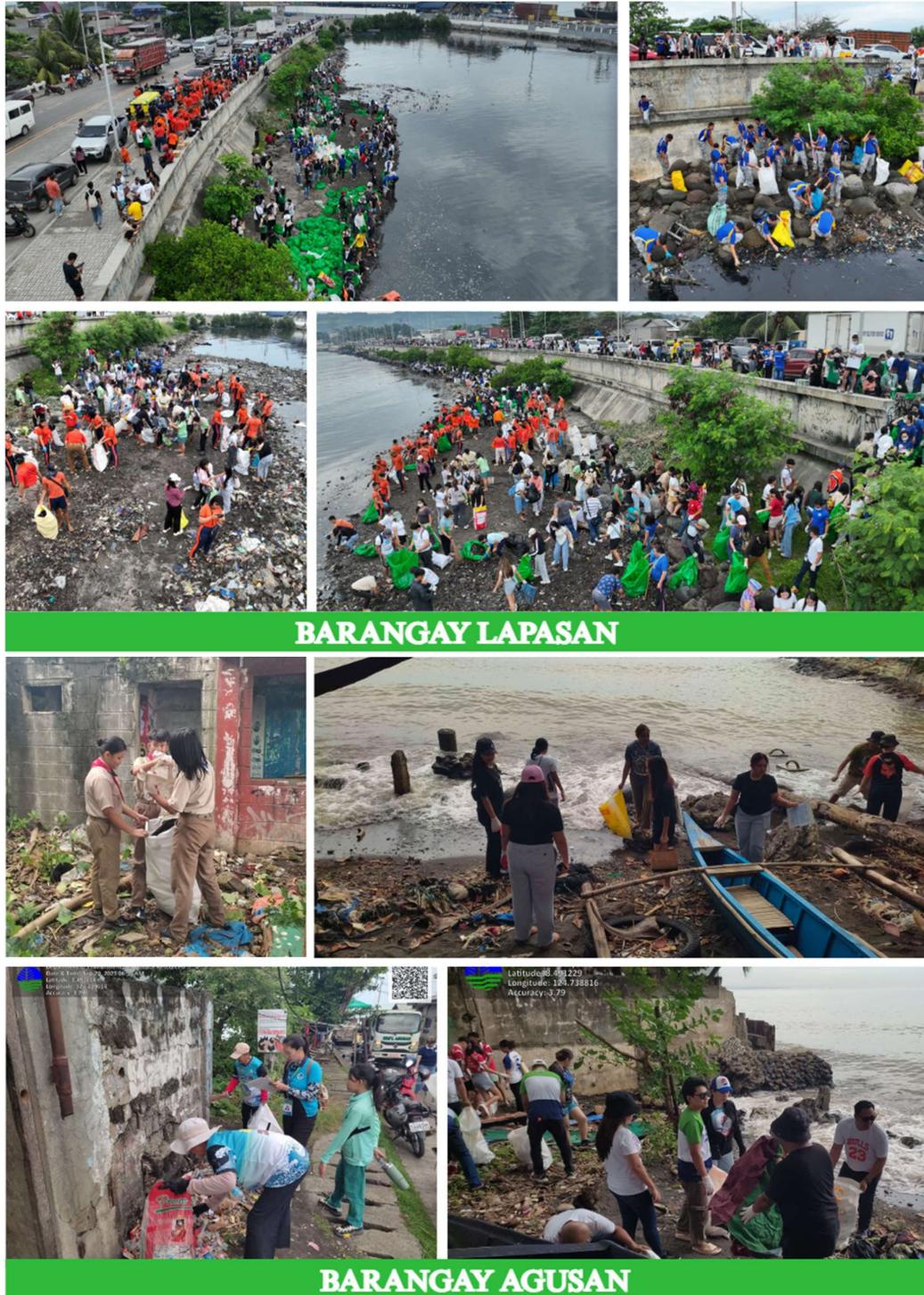


Figure 71. Photo of the participants during the conducted Simultaneous Coastal Cleanup in Barangays Lapasan and Agusan, Cagayan de Oro City.

**A.7 Coral Bleaching Awareness Month**

*A.7.a Activities conducted under the Regional Office*

The DENR Region X, through the CDD-CRFMS successfully conducted a “*Songposium: A Day to Sing Out Our Hearts and Bring Hope to Save Our Coasts from Marine Pollution*” on November 7, 2025 at the DENR-X Mini Conference Room, Puntod, Cagayan de Oro City. This event marked the culmination of the International Coastal Clean-up (2025) celebration, which was rescheduled from September 30 to November 7 to accommodate requests from the participating school and student participants, while also promoting Coral Bleaching Awareness Month. The event was attended by a total of 51 participants, including 16 individual student representatives from Opol Community College.

This activity aims not only to raise awareness about the critical issue of marine pollution but also to cultivate a sense of stewardship and creativity among the youth. This innovative platform was introduced by the DENR through the CDD-CRFMS. The Songposium elevated environmental education and communication by engaging students in an Original Songwriting and Music Contest. This event was made possible in collaboration with the Opol Community College, in Opol, Misamis Oriental through its Director, Center for Student Development and Leadership Dr. Rogelyn T. Abubacar.



Figure 72. (Top photo) Photos of some participants during their live performance of their original song composition; and (bottom photo) photo opportunity of all participants with the judges and the Chief of CRFMS.

#### *A.7.a Activities conducted under PENRO Misamis Occidental*

In observance of the Coral Bleaching Awareness Month, CENRO Ozamiz City distributed leaflets to promote awareness among communities about coral bleaching. This event took place on November 5, 2025, at Labuyo, Tangub City, Misamis Occidental, and was facilitated by BMMSFR-Bantay Dagat. A total of thirty-three individuals, comprising eight males and twenty-five females, received leaflets. The recipients included students from Northwestern Mindanao State College of Science and Technology (NMSCST) in Tangub City, as well as DOLE-TUPAD beneficiaries from the Labuyo area.

CY 2025 ANNUAL ACCOMPLISHMENT  
DENR-10 COASTAL AND MARINE ECOSYSTEMS MANAGEMENT PROGRAM



Figure 73. (Top photo) Layout of the leaflet; and photo of some student recipients from Northwestern Mindanao State College of Science and Technology (NMSCST) in Tanguib City.

A.7.b Activities conducted under PENRO Camiguin

PENRO Camiguin conducted an IEC in observance of the Coral Bleaching Awareness Month at Barangay Manuyog Basketball Court, Sagay, Camiguin on November 7, 2025. The team shared informative presentations related to the event and other relevant topics to address environmental issues. It was participated by a total of 39 participants composed of 18 male and 21 female from the Barangay Council of Manuyog, Peoples Organizations KASAMMA, and Holy Trinity Fisherfolks Association (HTFA) and selected PENRO Camiguin personnel.



Figure 74. Photo documentation of the participants during the Coral Bleaching Awareness month celebration at Barangay Manuyog Basketball Court, Sagay, Camiguin.

## 7. Hiring of Program Extension Officers

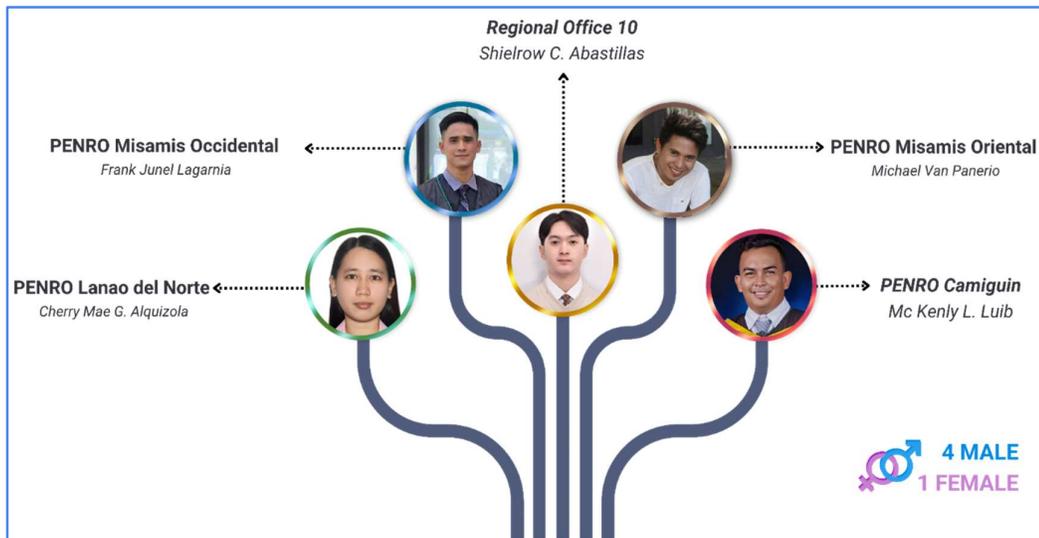


Figure 75. CMEMP Extension Officers hired per Offices.

To ensure the effective implementation of CMEMP in CY 2025, the Regional Office, together with the implementing coastal PENROs, successfully met the 100% hiring requirement through the recruitment of five Program Extension Officers (CEOs). These personnel provided essential support in carrying out the Office's activities and contributed significantly to meeting the programmed targets for the year.

Their core functions included:

- Assisting in the preparation, consolidation, and submission of reportorial documents;
- Performing assigned technical duties related to CMEMP;
- Supporting field operations and administrative tasks at the PENRO and regional levels.

In addition, the CEOs accomplished several major tasks that strengthened CMEMP implementation, such as:

- Assisting in Social Marketing and CEPA activities, including field coordination and documentation;
- Supporting Biodiversity-Friendly Enterprise (BDFE) initiatives and monitoring activities;
- Providing technical assistance in coastal and marine assessments (e.g., coral reefs, mangroves, seagrass, MPAs);
- Managing the tracking, receiving, and releasing of CMEMP-related documents, ensuring timely processing and organized documentation;
- Assisting in the conduct of CMEMP-related coastal activities, contributing to smooth implementation at the PENRO level;
- Supporting other CMEMP accomplishments as needed to meet regional targets.

Overall, their contributions ensured the smooth execution of planned activities and strengthened the delivery of CMEMP outputs for 2025.

## NOTABLE INITIATIVES IMPLEMENTED AND BEST PRACTICES

### Other Accomplishments

#### 1. Conduct of Regional CMEMP Meetings

The Regional CMEMP meetings were conducted to support the effective and efficient implementation of the region's CY 2025 CMEMP targets. Further, also served as a refresher on various CMEMP guidelines to ensure consistency in applying key procedures necessary for achieving the program's objectives.

##### A. RSO 2025-01078 dated January 30, 2025: CMEMP Levelling-off Meeting, Feedbacking and Planning Workshop via Google Meet on February 18-20, 2025



Figure 76. Photo documentation during the CMEMP levelling-off meetings strengthened the implementation of CY 2025 CMEMP targets while reinforcing CMEMP guidelines to promote consistency and effectiveness across the region.

##### B. RSO 2025-06393 dated June 13, 2025: CMEMP Mid-year Assessment and Feedbacking conducted on June 18-19, 2025



Figure 77. Photo documentation during the CY, 2025 CMEMP mid-year Assessment and Feedbacking.

**C. RSO 2025-10774 dated November 5, 2025:  
CY 2025 CMEMP Year-end Assessment and Feedbacking on  
November 11-12, 2025**



Figure 78. Photo documentation during the CMEMP Year-End Assessment and Feedbacking conducted on November 11–12, 2025

**2. Attended National Activities**

For CY 2025, the DENR-10 Conservation and Development Division – Coastal Resources and Foreshore Management Section (CDD-CRFMS) actively participated in several BMB-led activities in support of the implementation of CMEMP targets, as follows:

**A. All DENR-10 CDD-CRFMS/CRFMU attended the CMEMP Mid-Year Assessment spearheaded by BMB-CMD via Zoom Online Platform- July 17, 2025**



Figure 79. Photos of CMEMP Mid-Year Assessment spearheaded by BMB-CMD via Zoom Online Platform

**B. For. Eden Marie F. Gamos attended the Joint Conduct and Transition of Water Quality Monitoring for Coastal and Marine Ecosystems within NIPAS-MPA held at Astoria Plaza Hotel, Pasig City, Metro Manila on October 27-29, 2025**



Figure 80. Photos during the Joint Conduct and Transition of Water Quality Monitoring for Coastal and Marine Ecosystems within NIPAS-MPA

**C. Chief Mercedita G. Barbarona and For. Eden Marie F. Gamos attended the CMEMP National Year-end Assessment Workshop and Review of 2026 Strategic Plan at Seda Vertis North, North Avenue, Quezon City, Metro Manila on November 18-20, 2025**



Figure 81. Photo documentation during the CMEMP National Year-end Assessment Workshop and Review of 2026 Strategic Plan

**D. Chief Mercedita G. Barbarona and For. Eden Marie F. Gamos attended the NIMCAP Year-end Assessment Workshop and Review of 2026 Strategic Plan at Seda Vertis North, North Avenue, Quezon City, Metro Manila on November 20-22, 2025**



Figure 82. *Photo documentation during the NIMCAP Year-end Assessment Workshop and Review of 2026 Strategic Plan*

**3. Feedbacking/Capacitation of concerned Offices on IRISE findings to PENRO Misamis Occidental on May 28-30, 2025**

The CRFMS-10 conducted the aforementioned activity on-site to PENRO Misamis Occidental, PAMO-Baliangao Protected Landscape and Seascape and CENRO Oroquieta City re: Water Quality Monitoring findings during IRISE for corrective action. Further, to maximize travel time, the team proceeded to PAMO-BPLS and monitored (1) the active coral rehabilitation site and (2) the BDFE-PO NAKASINATI and conducted focus group discussion.



Figure 83. *Photo documentation during the Feedbacking on IRISE PENRO Misamis Occidental*

## IMPLEMENTATION OF THE PROJECT TRANSFORM FOR LANAO DEL NORTE PROVINCE

In line with the banner initiative program of the DENR which is the Transdisciplinary Approach for Resilience and Environmental Sustainability Through Multistakeholder Engagement (Project TRANSFORM), the DENR-X led the implementation of the Project TRANSFORM for Lanao del Norte province through the CDD-Coastal Resource Management Section (CRFMS) as Focal in the regional office.

Given the pressing concerns, such as poverty incidence (39.1%, 2021), inadequate infrastructure, environmental hazards, and limited access to essential services, the Province of Lanao del Norte was selected as a priority model site for the Project TRANSFORM adoption in the region 10. Project TRANSFORM is the kind of innovation the local stakeholders are waiting for to happen in Lanao del Norte - as a good collaborative platform towards bringing all relevant national government agencies' priority programs for climate, ecology and social resilience, helping the Province realize its collective aspiration "to shape Lanao del Norte into a sustainably developed agri-fishery and eco-cultural-sports tourism destination inhabited by God-loving people, resilient and socially cohesive people, with local governance firmly rooted in principle of inclusive growth.

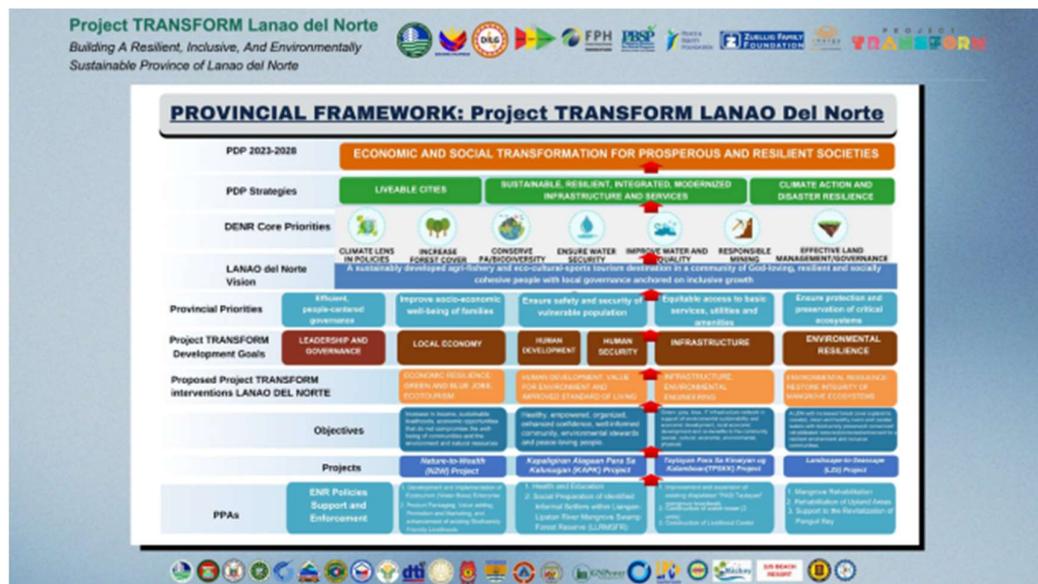


Figure 84. Project TRANSFORM for Lanao del Norte

This Project TRANSFORM for Lanao del Norte is envisioned to align with the vision and mission with TRANSFORM initiative in the national level which paves a way to move forward to beat the challenges of time including of course Climate Change, and the need to provide food, water, energy and security as well as public health and of course literacy and nutrition concern. DENR-10 piloted Lanao del Norte province for this Project TRANSFORM to create a better platform of collaborative partnership motivating a concrete climate action strategy that is localized, inclusive, and sustainable, which enable to build a whole-of-government, whole-of-society model, where academic perspective, community priorities, and private sector innovation work hand in hand. This will bring all relevant national government agencies' priority programs for climate, ecology and social resilience, to help the local government realize its collective aspiration "to shape Lanao del Norte into a sustainably developed agri-fishery and eco-

cultural-sports tourism destination inhabited by God-loving people, resilient and socially cohesive people, with local governance firmly rooted in principle of inclusive growth.

During the first quarter of CY 2025, the focus was on strengthening stakeholder collaboration through consultations, and coordination meetings to finalize the partnership agreements and the Project TRANSFORM targets. The collective engagement demonstrated a strong commitment from stakeholders to align their institutional mandates and resources in support of shared goals under Project TRANSFORM.

**A. *Project TRANSFORM face-to-face meeting on January 16, 2025***



Figure 85. *Project TRANSFORM Face-to-Face Meeting on January 16, 2025 with RED Henry A. Adornado (center).*

In attendance to this meeting are 55 participants from national government agencies, local government units, academic institutions, the private sector, and people's organizations. The meeting focused on securing stakeholder support for the project's three-year implementation, clarifying roles and responsibilities, finalizing the MOA content, and setting the timeline for the official launch. Stakeholders expressed strong commitment to the project, affirming broad support and active participation in its implementation.

This meeting was held at the DENR Conference Room in Puntod, Cagayan de Oro City and covered the following agenda:

1. Discussion/finalization of the four Project TRANSFORM priority projects and activities;
2. Affirmation of Support and commitment of the Project Partners for its 3-year implementation;
3. Clearly defining the responsibilities and obligations of the partners; and
4. Review of the drat Memorandum of Agreement, and Project Launching timeline



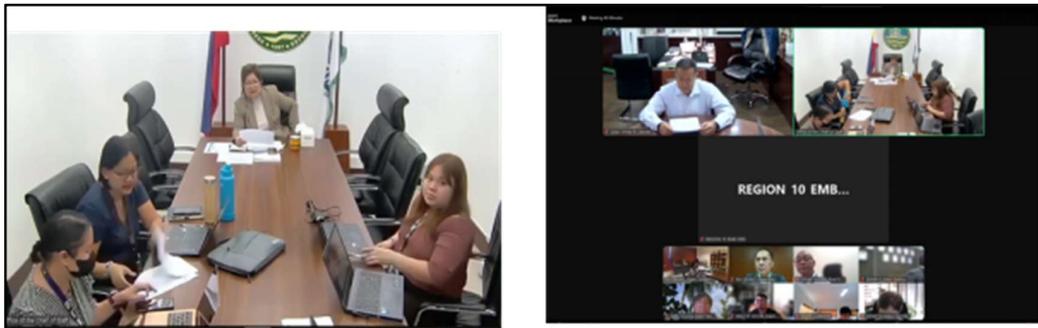
Figure 86. *RED Henry A. Adornado, PhD presenting the overview of Project TRANSFORM in Lanao del Norte during the meeting.*

The various partners gave inputs on their respective commitment to project TRANSFORM - a specific type of support to provide to the project targets, either technical, financial, and/or logistic support; and specify their roles and responsibilities, however, what they inputted still subject for affirmation of their respective Heads.

Significant Meeting Outputs: Project TRANSFORM project Menu, and enhanced inputs of each partner on their respective obligations reflected in the partnership agreements.

#### **B. Virtual Project TRANSFORM Meeting on January 21, 2025**

The result of the workshop was presented during the Virtual Project TRANSFORM Meeting on January 21, 2025. In attendance to the meeting was the Project TRANSFORM Management Team in the Central Office, composed of the group of Undersecretary Jonas R. Leones (Policy, Planning, and International Affairs), Undersecretary Marilou G. Erni (Chief of Staff and Supervising Undersecretary for Strategic Communications), and also the presence of Prof. Jessica Dator-Bercilla (Science Resilience Fellow, National Resilience Council), and the rest of the Project other Central Office PT counterpart.



*The Project TRANSFORM Management Team in the Central Office headed by USEC Marilou G. Erni in the Virtual Room during the meeting.*

Figure 87. *The Region 10 Virtual Participants during the meeting headed by RED Henry A. Adornado, PhD*

The key highlight of the meeting was the strong emphasis on co-ownership and active engagement of all stakeholders. Partners were reminded that their roles extend beyond funding; they are expected to contribute throughout the entire project cycle—planning, implementation, monitoring, and evaluation. It was also clarified that no fund transfers are involved under Project TRANSFORM.

### C. Project TRANSFORM Meeting on January 23, 2025

This is a Follow-up Meeting conducted at Visitor's Center, PAMO LLRMSFR, Kauswagan, Lanao del Norte. The main purpose was to get the affirmation of support of the LGUs from the Municipalities of Kauswagan, Bacolod and Nunungan, Lanao del Norte and other Stakeholders for the finalization of the project MOAs



Figure 88. Photo documentation of the 82 participants attended in January 23, 2025 Meeting at PAMO-LLRMSFR, Kauswagan, Lanao del Norte.

The outcomes of this meeting are:

1. Finalized partners' commitments and support to the project (financial, technical, and mechanical support);
2. Enhanced inputs for the Project TRANSFORM contributed by the local TWG members;
3. Additional target inputs proposed for inclusion in the project transform strategic goal - construction of flood control structure and sea wall in Bacolod;
4. Recommended for the conduct of another meeting together with the Head Offices of different NGAs, NGOs, GOCCs and Private sectors

### D. Hosting of the CY 2025 PROJECT TRANSFORM Facilitators' Training

The Project TRANSFORM Facilitators' Training: Unpacking Disaster Risk and Resilience and Project TRANSFORM Roll-Out was successfully hosted by the Department of Environment and Natural Resources (DENR) Region 10 at Limketkai Luxe Hotel, Cagayan de Oro City on March 18-19, 2025. This two-day activity brought together key officials from DENR Visayas and Mindanao, local government units, the Department of the Interior and Local Government (DILG), and other stakeholders to deepen understanding and strengthen collaboration in advancing climate-resilient communities.

The training was anchored on the premise that the Philippines, while abundant in natural resources, remains highly vulnerable to climate change and disaster risks. These challenges continue to cause significant economic losses and social disruptions, especially to marginalized sectors. To address such, the Project TRANSFORM was introduced as a strategic platform to operationalize a whole-of-society approach,

enabling stakeholders to collectively address risks, reduce vulnerabilities, and champion sustainable, resilient development—particularly for the most at-risk sectors

Day 1 opened with a vibrant ceremony, highlighted by a cultural performance from Mindanao State University – Naawan, celebrating the rich heritage of Northern Mindanao. In his welcome remarks, Regional Executive Director Dr. Henry A. Adornado emphasized the importance of translating scientific data and national policies into concrete, community-level actions. Key sessions covered a wide range of foundational topics, including an in-depth unpacking of disaster risk—highlighting the need to identify drivers of vulnerability and advance inclusive, community-based governance. Discussions also explored relevant international and local frameworks; overview of Project TRANSFORM; and the concept of change pathways which encouraged participants to "keep the faith" in the Filipino people, and reminded them that meaningful transformation starts not with the masses, but with the individual.

Day 2 delved into the operationalization of Project TRANSFORM at the community level, highlighting the roles of various agencies in supporting LGUs. Discussions stressed the importance of institutionalizing Local Environment and Natural Resources Offices to act as counterparts of the DENR at the local level. Participants were encouraged to engage in partnerships, tap corporate social responsibility funds, and foster enabling policy environments. The workshop sessions culminated in the co-creation of a localized Project TRANSFORM framework by the participants, enriched through collaborative exchange and shared experiences.

Overall, the activity marked a pivotal step in scaling Project TRANSFORM and reaffirmed DENR Region 10's commitment to inclusive, science-based, and community-anchored resilience-building efforts. Mindanao State University - Naawan students perform traditional cultural dances, showcasing the rich heritage of Northern Mindanao during the event's opening ceremony.



Figure 89. Photos of Mindanao State University-Naawan students perform traditional

*cultura during the opening program of the 2025 Project TRANSFORM Facilitators' Training*



Figure 90. Prof. Jessica Dator-Bercilla - Fellow, National Resilience Council (Photo A) facilitates the *Komiks ng Buhay: Interactive Storytelling* which was actively participated by the participants.

**E. Project TRANSFORM Meeting on June 10, 2025**

The agenda of the meeting focused on the presentation of the status of the submitted MOAs for Project TRANSFORM Lanao del Norte to the Central Office and the preparation support needed for the upcoming 2025 Project TRANSFORM colloquium in Metro Manila. It was attended by the DENR 10 Project TRANSFORM Technical Working Team.

1. Update on the status of the four MOAs for Project TRANSFORM target project that were endorsed to the Secretary thru the Chief of Staff and Supervising Undersecretary for Strategic Communications, Marilou G. Erni last March 27, 2025.

For. Barbarona presented that as of May 2025, the Project TRANSFORM Office has referred to the Regional Office the comments and recommendations of the Legal Affairs Services per memorandum dated May 9, 2025.

Based on the comments from Legal Affairs Service, it was stated that if the project shall provide funds from the government fund, the Certificate of

Availability of Funds (CAF) must be secured in accordance with footnote 1 in Section V of DAO 2014-03, or the Manual of Authorities on Human Resources Development and Administrative Matters. Said provision state that a “Memorandum of Understanding/Agreement with funding should be certified as to the CAF by the concerned Accountant as stipulated in the GAAM”. The COA Circular No. 2012-03 dated 29 October 2012 enumerates cases of “Illegal” Expenditures of Uses of Government Funds, one of which is “entering into contracts without covering certificates of availability of fund issued by the Chief Accountant even if the contract is signed by the Accountant as witness. For. Barbarona emphasized that until the CAF requirement is imposed to be attached to the MOA, we cannot finalize the partnership agreement including the Work and Financial Plan for the Project.

**Recommendations:**

Chief, CDD Roel G. Dahonog recommended to clarify with the PT Office the CAF requirement of WFP, given that it is difficult to comply considering the absence of a specific funds dedicated for the Project TRANSFORM since this initiative is not part of the approved NEP of DENR and LGUs.

The presiding Officer ruled through advising the Project TRANSFORM Focal to revise the Project MOAs based on the comments from LAS, re submit the revised document to the Secretary with justification that the CAF requirement is not feasible since the Project TRANSFORM for Lanao del Norte is just an attribution of targets for the existing programs and initiative of the Local Government Units, private sector, other National Government Agencies and Academe.

2. Upcoming Project TRANSFORM Colloquium on July 23, 2025 was presented by the Project TRANSFORM Focal, For. Mercedita G. Barbarona

The instruction from the PT Office requires Region 10 to facilitate the confirmation of the concerned LGUs and local partners.

The PENRO Focal was advised to necessary communicate with the Governor Office in advance about the colloquium and set the Office’s support and confirmation to attend; and also to discuss the MOAs to the newly elected Official (Governor and Mayors of Kauswagan and Nunungan) – awaiting their assumption of Office.

**F. Project TRANSFORM Meeting on June 4, 2025**

The meeting focused on the discussion of the proposed Work and Financial Plan (CY 2025–2027) for Project TRANSFORM in Lanao del Norte, review of the stakeholders’ comments and additional inputs to the MOAs, formation of the Regional Technical Support Team (RTST) to strengthen the coordination between DENR and DILG in line with DENR-DILG JMC No. 01, s. 2024 and the upcoming Project TRANSFORM Colloquium on July 23, 2025.

## **G. Project TRANSFORM Colloquium**

The Project TRANSFORM Colloquium Exhibits was located in the Ballroom 2 lobby of Hilton Manila Hotel. The exhibits featured different story of resilience inspiring the Project TRANSFORM initiatives and one of them is the story of RED Henry A. Adornado, PhD entitled: “From Dreams to Action: A Journey of Leadership and Environmental Stewardship”.

On August 27, 2025, the DENR 10 delegates participated the Project TRANSFORM Colloquium held at Hilton Hotel, Pasay City. The delegates from the region 10 were headed by the Regional Executive Director, Henry A. Adornado, DENR 10 Regional Project TRANSFORM Focal, Mercedita G. Barbarona, PENR Officer of Lanao del Norte- Arnulfo T. Osio along with the PENRO Project TRANSFORM Focal Joby Porquez and CDS Chief, the CENRO of Iligan City/PASu of Liangan Lipatan River Mangrove Swamp Forest Resrve, Saiben S. Mampao, and two support staff. From the partner LGUs of Lanao del Norte, the Mayor of Kauswagan and Vice Mayor of Nunungan, Lanao del Norte had also joined with the Region 10 delegates, and the Vice President of the GNPOwer Kauswagan, LTD, Inc.

During the Project TRANSFORM Colloquium, one of the featured Story of Resilience covers the Story of RED Henry A. Adornado, PhD entitled: “From Dreams to Action: A Journey of Leadership and Environmental Stewardship”. This story reflects a hard struggle life started from the very beginning which empowered him to dream to become a transformational leader in the future. Beyond his desire for a brighter future, his firsthand experience having witnessed the devastating impact of illegal tree cutting in the vicinity of Siera Madre Mountains – his homeland - made him aspired to pursue a degree in Forestry, join the environmental workforce, and recognize how important is community collaboration to effectively safeguard the environment and promote sustainable development. RED Henry – the Eagle RED of DENR-10, expresses support for the Project TRANSFORM for Lanao del Norte as it will strengthen region’s 10 environmental efforts through an LGU led, multi-stakeholder partnership that supports sustainability and resilience. He believes that the implementation of the Project TRANSFORM in Lanao del Norte is very essential to advance inclusive resource governance and address climate risks, environmental hazards, limited access to basic services, poverty incidence, and peace and order challenges.

RED Adornado’s story of resilience was featured in the Project TRANSFORM Colloquium Exhibits at the Lobby area, Ballroom 2 of Hilton Hotel, Pasay City.

The Project TRANSFORM for Lanao del Norte is one of the cases presented during the Colloquium program along with the project transform initiative projects in San Mateo and Rodrigues, Rizal Province; and Tanay Province.

## H. Localized MOA Signing and Launching of the Project TRANSFORM Lanao del Norte

The Project TRANSFORM Lanao del Norte is very essential to advance inclusive resource governance and address climate risks, environmental hazards, limited access to basic services, poverty incidence, and peace and order challenges. It will strengthen region's 10 environmental efforts through an LGU led, multi-stakeholder partnership that supports sustainability and resilience.

Pursuant to DENR and DILG No. 01, Series of 2024, the Project TRANSFORM Lanao del Norte was finally institutionalized through the MOA signing for the four identified pilot projects on November 14, 2025, held at the Kalimudan Hall, Governor Arsenio Quibranza Provincial Government Center, Barangay Pigcarangan, Tubod, Lanao del Norte. This pivotal event marked the official commencement of the project, which is anchored on the vision of **“Building a Resilient, Inclusive, and Environmentally Sustainable Province of Lanao del Norte.”**

The launching of the project TRANSFORM was highlighted by the formal signing of the partnership agreements (4 MOAs) by and between project partners. These partners are: the DENR, Local Government (PLGU) of Lanao del Norte, Municipal Local Government Units (MLGUs) – MLGU-Bacolod, MLGU Kauswagan, MLGU Nunungan; DILG, DSHUD, DOT, DTI, DA, PNP, PNP-MG, 5<sup>th</sup> Mechanized Infantry; the Private Sector (GNPower Kauswagan, LTD, CO., Ecosystems Work for Essential Benefits, Inc, MJ Beach Resor, 3J's Beach Resort, Mindanao State University at Naawan, MSU-Maigo College of Science and Technology.

During the ceremony, individual Memoranda of Agreement (MOAs) were formally signed for each of the four priority projects under Project TRANSFORM. These initiatives include: 1) **Kapaligiran Alagaan Para Sa Kalusugan (KAPK) Project**, 2) **Nature to Wealth (N2W) Project**, 3) **Landscape-2-Seascape (L2S) Project**, and 4) **Taytayan Para Sa Kinaiyahan ug Kalamboan (TPSKK) Project**. Each MOA was signed by the relevant agencies and the stakeholders directly responsible for the respective projects,



Figure 91. Photo documentation during MOA signing and launching of the PROJECT TRANSFORM



Figure 92. *Hon. Khalid Mohamad Q. Dimaporo and RED Henry A. Adornado, PhD unveils the Project TRANSFORM Signages during the Launching Program*

As the Key Executive Pillars unveiled the four Project TRANSFORM signage, the various stakeholders around in the venue witnessed the overwhelming hope and inspiration being symbolized by the event – which signaling the official commencement of the four projects implementation on the ground.

This MOA signing event represents the culmination of three years effective coordination, consultations, planning workshops, and joint assessments strategies that give birth of the Project TRANSFORM Framework for Lanao del Nort province. This Framework ensembles a whole-of-government and whole-of-society model that is essential in addressing interconnected challenges related to climate risks, environmental degradation, poverty incidence, service delivery gaps, and peace and order issues.

RED Henry A. Adornado highlighted the substantial groundwork already accomplished, including concept development, community consultations, stakeholder pr ofiling, log-frame planning, provincial meetings, the November 2024 soft launching, and the March 2025 facilitators’ training which demonstrate the readiness of region 10 to adopt the TRANSFORM initiative. To strengthen the strategic partnership, promote timely reporting by partners, RED Adornado stressed out the importance of developing a Management Information System for Project TRANSFORM. This MIS platform will facilitate the online tracking of partners’ accomplishments vis—-a-vis their respective target deliverables, data banking and digital filing of reports for smooth review and analysis of the project outcomes



Figure 93. Photos of the Key Officials.

Ways Forward of the project was outlined during the event, emphasizing the importance of institutionalizing the project TRANSFORM initiative through integration into the local development plan of the LGUs and master plan of the partner sectors as the success of Project TRANSFORM depends on unified and consistent efforts from all stakeholders. The main role of the major partners was very much emphasized in this launching program.

The main role of the DENR: in the provision of technical guidance, facilitate action planning, monitor project progress, and share essential data. The DILG will be providing assistance, for coordination with NGOs, aligning local plans, and supporting monitoring and evaluation activities. The DOH, PNP, Philippine Army, and Coast Guard are expected to mobilize communities, provide security and logistics, and support the enforcement of environmental laws. The private sector is expected to contribute infrastructure, resources, and support facilities such as boardwalks, watchtowers, and livelihood centers, while also participating in project monitoring. Civil society and community groups will play a key role in strengthening grassroots involvement, promoting public awareness, and sustaining project gains through community-led initiatives.

The representation of Engr. Abulcar D. Lindao, Chief of Staff, in behalf of the DILG 10 Regional Director, reflects the DILG 10's firm dedication to the project as pointed out in his response message. Engr. Lindao noted the importance of collaboration and strong support from the various partners for the Project TRANSFORM Lanao del Norte, most especially the efforts of the DENR as the lead convener for the project.



Figure 94. Engr. Abulcar D. Lindao, Chief of staff, representing the DILG-X Regional Executive Director.



Balancing the environment is meant finding our way for a balance development – a message of Governor Mohammad Khalid Q. Dimaporo of Lanao del Norte during the launching. The Governor marks the event the beginning of the greater important journey for the province.

Figure 95. *Photo of Hon. Governor Mohamad Khalid Q. Dimaporo giving his inspiration insights during the MOA signing of project TRANSFORM.*

For Mayor Judith B. Mequibas of Bacolod, Kauswagan, Lanao del Norte, the success of the MOA signing for the Project TRANSFORM for Lanao del Norte was made possible because of the support of the people in the province.



Figure 96. *Photo of Mayor Judit V. Mequibas of Bacolod during the MOA signing for PROJECT TRANSFORM*

*Mayor Judit V. Mequibas of Bacolod, Lanao del Norte*

#### **I. Submission of the Project TRANSFORM Implementation Matrix**

The DENR 10 Regional Project TRANSFORM Focal in collaboration with the PENRO Lanao del Norte prepared the required Project TRANSFORM Implementation Matrix and presented it during the December 3, 2025 National 2025 Project TRANSFORM Year Assessment Meeting conducted via Zoom platform.

#### **J. Conduct of Planning Workshop for the preparation of the Project TRANSFORM implementation Plan**

Finally, with the signing of the MOAs covering the four identified pilot projects under the Project TRANSFORM initiative for Lanao del Norte province, the project partners have already the legal basis to materialize their respective commitments to support the projects implementation in accordance with the desired strategic goals, objectives and targets. And in order to effectively develop a clear Implementation Plan for pilot TRANSFORM project, there is a need to convene all the project partners through their designated Project TRANSFORM Focal which will compose the TWG of the project who will be directly involved in the planning of the project target activities and budgeting, in the implementation, and evaluation and monitoring of the projects' accomplishments and impacts. Hence, this Action Plan

Objectives:

1. To revisit the projects' menu, finalize the commitment of each per partner;
2. To discuss the project strategies, and define the target performance indicators based on a quantifiable and qualitative outcomes expected; and
3. Overall, to come up with a clear Implementation Plan for each pilot project based on the specific target contributions per partner which will serve as guide in the project implementation from CY 2026-2028.

Expected Output:

The outputs of this planning workshop will be used as an inputs in finalizing the Implementation Matrix for the project and the updating of the Project Briefers as required by the Project TRANSFORM Management Office per existing instruction from the Chief of Staff and Supervising Undersecretary For Strategic Communications (memorandum dated 19 November 2025).

This planning workshop will be participated by the following TWGs.

1. DENR 10 TWG members for the Project TRANSFORM (Regional Office, PENRO Lanao del Norte and PAMO-LLRMSFR);
2. LGUs Technical Working Groups (Provincial and Municipal Focal For Project TRANSFORM, PG-ENRO/MENROs, PPDC, MPDCs, DRRMOs, PAGRO, Mun. Agriculturists, PFO, PTO and MTOs.
3. Focal from Academes (MSU at Naawan, MSU-Maigo MCEST);
4. Focal from other NGA Partners (DILG, DTI, DOT, DA, BFAR, PCG, PNP, PNP-MG, 5<sup>th</sup> Infantry "Kaagapay" Batallion)
5. Business Partners (GNPower Kauswagan LTD, Inc.; MJ Beach Resort, 3J's Beach Resort, Republic Cem

Expected Output:

The outputs of this planning workshop will be used as the inputs in finalizing the Implementation Matrix for the project and the updating of the Project Briefers as required by the Project TRANSFORM Management Office per existing instruction from the Chief of Staff and Supervising Undersecretary For Strategic Communications (memorandum dated 19 November 2025).