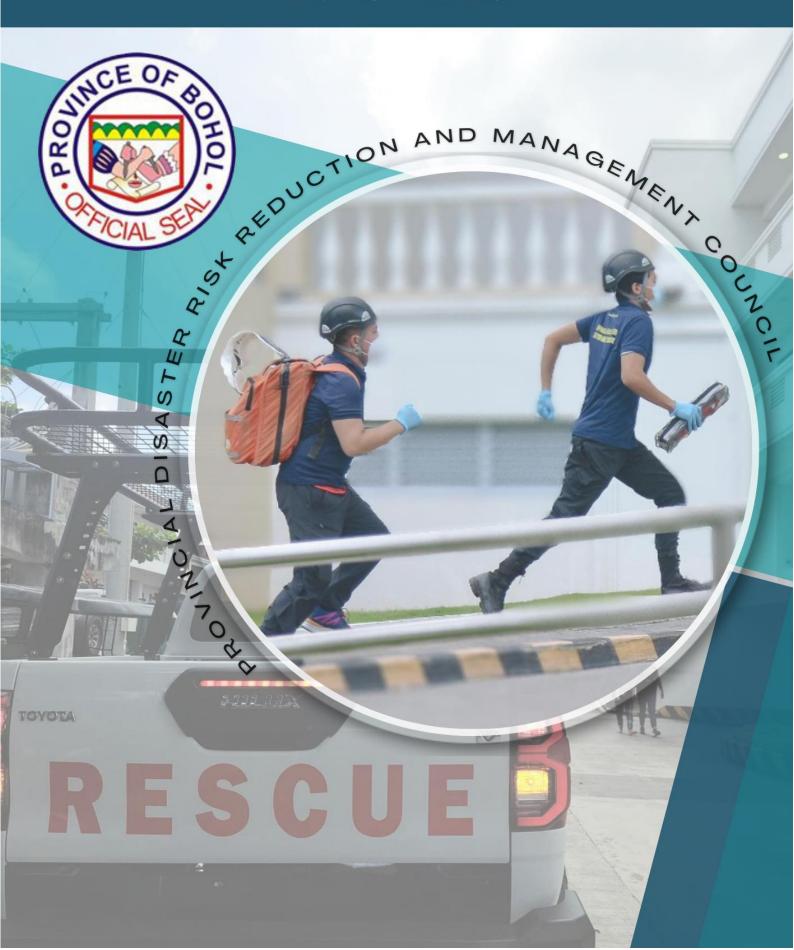
PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT PLAN 2023-2025





LOCAL DISASTER RISK REDUCTION AND MANAGEMENT PLAN 2023 TO 2025

PROVINCE OF BOHOL

SP Resolution Adopting the LDRRMP



Republic of the Philippines PROVINCE OF BOHOL City of Tagbilaran



OFFICE OF THE SANGGUNIANG PANLALAWIGAN

THE 29TH BOHOL LEGISLATURE

EXCERPT FROM THE RECORD OF PROCEEDINGS OF THE REGULAR SESSION OF THE SANGGUNIANG PANLALAWIGAN OF BOHOL HELD AT THE SENATOR BENIGNO S. AQUINO, JR. SESSION HALL, BOHOL PROVINCIAL CAPITOL BUILDING, LINO CHATTO DRIVE, TAGBILARAN CITY, ON MAY 09, 2023.

PRESENT:

Hon. Dionisio Victor A. Balite, Ph.D	Vice Governor, Presiding Officer
Hon. Venzencio B. Arcamo	Member
Hon. Lucille Y. Lagunay	Member
Hon, Greg Crispinito L. Jala	Member
Hon. Aldner R. Damalerio	Member
Hon. Tomas D. Abapo, Jr	Member, Floor Leader
Hon, Elpidio L. Bonita, M.D., M.H.A.	Member
Hon. Vierna Mae F. Boniel	Member
Hon. Gloria B. Gementiza	Member, Ex-Officio, PCL
Hon. Christian Victor S. Bolos III	Member, Ex-Officio, SK Federation President
OFFICIAL BUSINESS:	
Han Tita V Pain	Canian Mamban Aget Floor London

ONO

Hon. Tita V. Baja Senior Member, Asst. Floor Leader

ABSENT:

Hon. Nathaniel O. Binlod, MPA	Member, On Leave
Hon. Jiselle Rae Aumentado Villamor.	Member, Asst. Floor Leader, On Leave
Hon. Romulo G. Cepedoza, D.M.D	Member, Ex-Officio, Liga ng mga Barangay, On Leave

RESOLUTION NO. 2023-421

APPROVING AND ADOPTING THE LOCAL DISASTER RISK REDUCTION AND MANAGEMENT PLAN 2023-2025.

> (Sponsored by Hon. Tomas D. Abapo, Jr.) (Co-sponsored by the Honorable Presiding Officer, Vice Governor Dionisio Victor A. Balite, Ph. D.)

"WHEREAS, the Provincial Disaster Risk Reduction and Management Council (PDRRMC), through the Provincial Disaster Risk Reduction and Management Office, crafted the Local Disaster Risk Reduction and Management Plan 2023-2025;

"WHEREAS, the Plan was presented to the members of the PDRRMC and was likewise approved and adopted by the Council;

"WHEREAS, a corresponding Resolution from the Sangguniang Panlalawigan is also required for its approval and adoption;

"WHEREFORE, be it resolved, as it is hereby resolved by the Sangguniang Panlalawigan of Bohol in session duly assembled -



Sangguniang Panlalawigan of Bohol Resolution No. 2023-421

That the Local Disaster Risk Reduction and Management Plan 2023-2025, is hereby approved and adopted.

"RESOLVED FURTHER, to furnish copies hereof to all concerned for their information and appropriate action;

"APPROVED."

I hereby certify to the correctness of the above-quoted Resolution.

BONIFACIO M. QUIROG, JR., J.D., Ph.D. Secretary, angguniang Panlalawigan

ATTESTED:

DIONISIO VICTOR A. BALITE, Ph.D.

Vice Governor (Presiding Officer)

Message from the Local Chief Executive



Republic of the Philippines PROVINCE OF BOHOL City of Tagbilaran

OFFICE OF THE GOVERNOR

First and foremost, allow me to congratulate the members of the Provincial Disaster Risk Reduction and Management Council (PDRRMC) and all stakeholders in the province of Bohol for completing the series of workshops to come up with an updated Provincial Disaster Risk Reduction and Management Plan for 2023-2025.





Their cohesive and collective efforts in coming up with this PDRRM Plan is a manifestation of how Boholanos unite as one to show their support to this administration's governance and prioritization of DRR programs.

The M7.2 Great Bohol earthquake in 2013, the COVID-19 and Typhoon Odette that hit the province of Bohol may be catastrophic, but it cemented the Boholano spirit of resiliency that allowed us to rise from the rubbles and pushes us to become what we are and to where we are now.

I am deeply honored for the province of Bohol to be one of only two provinces in the country to be piloted by the Office of Civil Defense (OCD) with the Japan International Cooperation Agency (JICA) on this new face of LDRRM plan, of which our PDRRM Plan will serve as the model in LDRRM planning.

This crafting of this LDRRM Plan provides the guidelines for hazard information assessment; guidelines formulation use and risk for the RDRRMPs/LDRRMPs; OCD's information management (including global indicators for Disaster Risk Reduction), monitoring, and such as Sendai Framework evaluation system; establishment of training system to replicate the project outcome and conduct training for regions and LGUs in the Philippines. The overall purpose of this Plan is to reduce disaster human casualties and economic losses.

Lastly, I enjoin all Boholanos to work hand-in-hand in achieving a safer, adaptive and disaster resilient Filipino communities toward sustainable development.

Good luck and God bless us all!

ERICO ARISTOTLE C. AUMENTADO
Governor

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Table of Contents

SP Resolution Adopting the LDRRMP	ii
Message from the Local Chief Executive	iv
Table of Contents	V
List of Figures	vi
List of Tables	vi
List of Annexures	vii
Acronyms and Abbreviations	vi
Chapter 1: Preliminary Analysis	- 1 -
1. Ecological Profile	- 1 -
Physical Characteristics	- 1 -
Demographic Characteristics	- 2 -
Physical and Infrastructure	- 4 -
Lifeline Facilities	- 8 -
Social Services and Facilities	- 9 -
Social Welfare	- 17 -
Economy	- 18 -
2. Risk Profile	- 20 -
Past Disasters Timeline and Impacts	- 20 -
Natural Hazard Characterization and Exposure Analysis	- 22 -
3. Situational Analysis	- 45 -
Future Changes and Development	- 45 -
Vulnerabilities and Capacities	- 47 -
Vulnerabilities	- 47 -
Capacities	- 49 -
Chapter 2: DRRM Roadmap and Strategies	- 53 -
Vision	- 54 -
Goals and Outcomes	- 54 -
DRRM Targets: 2023 to 2031 of Bohol Province LDRRM Plan	- 56 -
Chapter 3:	- 86 -
Disaster Risk Reduction and Management Plan	- 86 -
Prevention and Mitigation	- 86 -
Disaster Preparedness	- 88 -
Response and Early Recovery	- 91 -
Disaster Rehabilitation and Recovery	- 92 -
Chapter 4: Three-Year LDRRMF Investment Plan	- 93 -
Chapter 5: Monitoring and Evaluation Plan	- 94 -
Annexures	- 95 -

List of Figures

	Figure 1: Location of Bohol (Source: PDPFP 2016-2028)	- 1 -
	Figure 2: Population Size Map in 2020 (Source: PSA 2020)	- 3 -
	Figure 3: Topographic Map (Source: PPDO Bohol)	- 5 -
	Figure 4: Watersheds Map (Source: PPDO Bohol)	- 6 -
	Figure 5: Watershed and River Systems Map (Source: PDPFP 2016-2028)	- 6 -
	Figure 6: Road Network Map (Source: PPDO Bohol)	- 8 -
	Figure 7: Number of Household with Access to Safe Water Supply (PHO 2021)	- 16 -
	Figure 8: Health Facilities Map (Source: Geoportal PH, DOH)	- 16 -
	Figure 9: Flood Susceptibility Map (MGB)	- 23 -
	Figure 10: Storm Surge Hazard Map (Source: PPDO Bohol)	- 26 -
	Figure 11: Rain-Induced Landslide Susceptibility Map (Source: PPDO Bohol)	- 29 -
	Figure 12: Agricultural Exposure Map to RIL (Source: PDPFP 2016-2028)	- 32 -
	Figure 13: Active Fault Map of Bohol Province (Source: PHIVOLCS)	- 34 -
	Figure 14: Ground Shaking Hazard Map of Bohol (Source: PDPFP 2016-2028)	- 35 -
	Figure 15: Agricultural Exposure Map to Ground Shaking (Source: PDPFP 2016-2028)	-36 -
	Figure 16: Modified Mercalli Intensity Scale Map of 2013 Oct. 15 7.2 Magnitude	
	Earthquake in Bohol (Source: REDAS from DOST-PHIVOLCS)	- 36 -
	Figure 17: Liquefaction Hazard Map of Bohol Province (Source: PPDO Bohol)	- 38 -
	Figure 18: Earthquake-Induced Landslide Hazard Map (Source: PPDO Bohol)	- 41 -
	Figure 19: Tsunami Hazard Map of Bohol Province (Source: PPDO Bohol)	- 44 -
	Figure 20: Projected Changes and Development in Bohol Province	- 46 -
	Figure 21: Bohol's Vision, Mission and Strategic Change Agenda	- 53 -
Lis	t of Tables	
	Table 1: Total Population by City/Municipality	- 2 -
	Table 2: Population Density and Land Area	- 4 -
	Table 3: Roads by Type of Pavement (Source: LRNDP 2018-2022)	- 7 -
	Table 4: List of RHUs with DOH Licensing and PHIC Accreditation	- 9 -
	Table 5: Birthing Facilities with DOH Licensing and PHIC Accreditation	- 12 -
	Table 6: Public and Private Hospitals in Compliance to DOH Licensing	- 13 -
	Table 7: Educational Facilities Public and Private SY 2022 Bohol Province	- 17 -
	Table 8: Summary of Disaster Incidents in the Province of Bohol	- 20 -
	Table 9: Matrix for Past Storm Surges/Big Waves Events in Bohol	- 21 -
	Table 10: Matrix for Past Earthquake Events in Bohol	- 22 -
	Table 11: Summary of Damage and Losses in Bohol (TY Odette 2021)	- 24 -
	Table 12: Flooding - Population at Risk	- 24 -
	Table 13: Flooding – Agriculture at Risk	- 25 -

	Table 14: Storm Surge – Population at risk	- 27 -
	Table 15: Storm Surge – Agriculture at Risk	- 28 -
	Table 16: RIL – Population at risk	- 30 -
	Table 17: RIL – Agriculture at risk	- 31 -
	Table 18: Earthquakes – Population at risk	- 37 -
	Table 19: Liquefaction – Population at risk	- 38 -
	Table 20: Liquefaction – Agriculture at risk	- 39 -
	Table 21: Earthquakes Induced Landslide – Population at risk	- 40 -
	Table 22: Earthquake Induced Landslide – Agriculture at risk	- 40 -
	Table 23: Tsunami – Population at risk	- 42 -
	Table 24: Tsunami - Agriculture at risk	- 43 -
	Table 25: National DRRM Goals and Outcomes	- 54 -
	Table 26: DRRM Targets 2023 to 2031 (Flooding, Typhoon, and Severe Wind)	- 57 -
	Table 27: DRRM Targets 2023 to 2031 (Drought)	- 62 -
	Table 28: DRRM Targets 2023 to 2031 (Rain-induced Landslide)	- 65 -
	Table 29: DRRM Targets 2023 to 2031 (Storm Surge)	- 67 -
	Table 30: DRRM Targets 2023 to 2031 (Tsunami)	- 71 -
	Table 31: DRRM Targets 2023 to 2031 (Liquefaction/Ground Shaking)	- 75 -
	Table 32: DRRM Targets 2023 to 2031 (Sinkholes)	- 78 -
	Table 33: DRRM Targets 2023 to 2031 (Earthquake Induced Landslide)	- 80 -
	Table 34: DRRM Targets 2023 to 2031 (Ground Rupture)	- 83 -
	Table 35: Key Outputs for Disaster Prevention and Mitigation	- 86 -
	Table 36: Key Outputs for Disaster Preparedness	- 89 -
	Table 37: Key Outputs for Disaster Response and Early Recovery	- 91 -
	Table 38: Key Outputs for Disaster Rehabilitation and Recovery	- 92 -
	Table 39: Summary of the LDRRMFIP from 2023 to 2025	- 93 -
Lis	t of Annexures	
	Annex 1: Bohol's Assessment of its Contribution to the NDRRMP Target Outcomes	- 96 -
	Annex 2: Bohol Province Ongoing, Planned Policies, and Activities	- 105 -
	Annex 3: Bohol's SWOC-PESTEL Analysis	- 125 -
	Annex 4: DRRM Measures Per Thematic Area	- 135 -
	Annex 5: LDRRMFIP of Bohol Province	- 252 -
	Annex 6: Results Based Monitoring & Evaluation	- 345 -
	Annex 7: Institutional	- 349 -
	Annex 8: PDRRMC Resolution No. 2, Series 2022	- 355 -
	Annex 9: RDRRMC Certification for FY 2023	- 357 -

Acronyms and Abbreviations

ASF African Swine Flu

BACH Bohol Art and Cultural Heritage

BDRRMC Barangay Disaster Risk Reduction and Management Committee

BEA Bohol Earthquake Assistance
BFP Bureau of Fire Protection
BISU Bohol Island State University

BLGU Barangay Local Government Unit BOHECO Bohol Electric Cooperative Corp.

BLCI Bohol Light Company Inc.

Brgy Barangay

CCAD Center for Culture and Arts Development

CLUP Comprehensive Land Use Plan

DA Department of Agriculture

DENR Department of Environment and Natural Resources

DILG Department of Interior and Local Government

DOH Department of Health

DOST Department of Science and Technology

DOT Department of Tourism

DPWH Department of Public Works and Highways
DRRM Disaster Risk Reduction and Management

DSWD Department of Social Welfare and Development

DTI Department of Trade and Industry
EIL Earthquake-Induced Landslides
ENSO EI Niño Southern Oscillation

EREID Emerging and Re-emerging Infectious Diseases

ERT Emergency Response Team

EWS Early Warning System

GIS Geographic Information System

GPS Global Positioning System

Ha Hectare

HEI Higher Education Institutions

IEC Information, Education and Campaign

JICA Japan International Cooperation Agency

LCCAP Local Climate Change Adaptation Plan

LDRRMC Local Disaster Risk Reduction and Management Council

LDRRMP Local Disaster Risk Reduction and Management Plan

LGU Local Government Unit

MHPSS Mental Health and Psychosocial Support

MLD Manual Load Dropping

MLGU Municipal Local Government Unit

NAMRIA National Mapping and Resource Information Authority

NBF North Bohol Fault

NCCA National Commission on Culture and Arts
NCIP National Commission on Indigenous Peoples

NDRRMP National Disaster Risk Reduction and Management Plan

NGA National Government Agency
NGC National Grid Corporation
NGO Non-government Organization
NHI National Historical Institute

NM National Museum

NSO National Statistics Office
OCD Office of Civil Defense

PAGASA Philippine Atmospheric, Geophysical and Astronomical Services

Administration

PDNA Post Damage and Needs Assessment

PDPFP Provincial Development and Physical Framework Plan

PESTEL Political, Economic, Social, Technological, Environmental, Legal

PHIVOLCS Philippine Volcanology and Seismology

PhP Philippine Peso

PLDT Philippine Long Distance Telephone Company

PLGU Provincial Local Government Unit

PNP Philippine National Police PO Peoples Organization

PPAs Programs, Projects, and Activities

PPDO Provincial Planning and Development Office

PPE Personal Protective Equipment
PSA Philippine Statistics Authority

REDAS Rapid Earthquake Damage Assessment System

RIL Rain-Induced Landslide SAR Search and Rescue

Sq.m Square Meter

SWM Solid Waste Management

SWOC Strengths, Weaknesses, Opportunities, and Challenges

USAR Upland Search and Rescue
VAW Violence Against Women
WASH Water, Sanitation and Hygiene
WESM Wholesale Electric Spot Market

Chapter 1: Preliminary Analysis

1. Ecological Profile

Physical Characteristics

Geographic Location and Accessibility

Bohol is situated in Region 7 (Central Visayas), with the islands of Cebu at its northwest across the Bohol Strait, Leyte in the northeast separated by the Camotes Sea and Canigao Channel and Mindanao at its southern border with the Bohol Sea in-between. The main island is surrounded by about 73 smaller islands, with Panglao Island at the southwest and Lapinig Island in the northeast among its larger islands. Located almost centrally in the Philippine archipelago, the island province of Bohol is about 1 hour and 45 minutes by airplane directly south of Manila and about 30 minutes southeast of Mactan Island, Cebu.

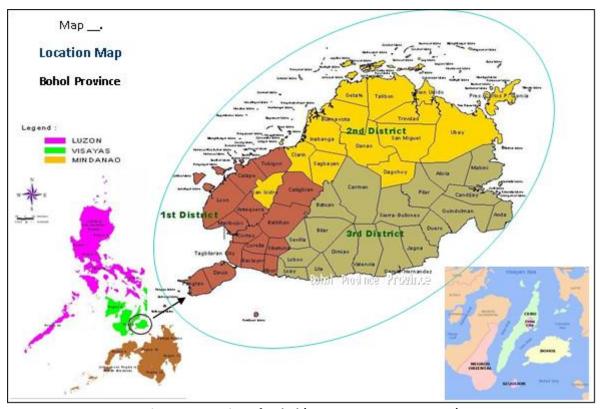


Figure 1: Location of Bohol (Source: PDPFP 2016-2028)

Land Area

The total land area of Bohol is approximately 411,726 hectares representing 1.4% of the total land area of the Philippines.

Demographic Characteristics

Population and Settlements

Bohol's total resident population, in the latest census survey conducted by the Philippine Statistics Authority (PSA) in 2022 registered at 1.394 million Boholanos. The province ranked as the 20th most populous province among the country's 81 provinces in 2020 (PSA, 2020).

Table 1: Total Population by City/Municipality

Table 1: Total P	otal Population by City/Municipality TOTAL POPULATION						
	01-May 2000	01-May- 2010	01-Aug- 2015	2020			
BOHOL	1,139,130	1,255,128	1,313,560	1,394,329			
ALBURQUERQUE	8,715	9,921	10,540	11,246			
ALICIA	21,605	22,285	23,517	24,374			
ANDA	17,863	16,909	16,462	17,778			
ANTEQUERA	13,758	14,481	14,425	14,990			
BACLAYON	14,996	18,630	20,591	22,461			
BALILIHAN	16,837	17,147	17,903	18,694			
BATUAN	11,835	12,431	12,767	13,845			
BILAR	16,628	17,098	17,590	18,512			
BUENAVISTA	25,960	27,031	27,261	29,711			
CALAPE	27,921	30,146	30,863	33,079			
CANDIJAY	30,389	29,043	29,475	30,119			
CARMEN	40,713	43,579	46,306	49,191			
CATIGBIAN	21,461	22,686	22,675	23,805			
CLARIN	18,040	20,296	20,301	21,158			
CORELLA	6,048	7,699	8,479	9,479			
CORTES	12,702	15,294	16,954	18,344			
DAGOHOY	16,845	18,868	19,158	19,874			
DANAO	17,265	17,952	17,890	20,245			
DAUIS	26,415	39,448	45,663	52,492			
DIMIAO	14,151	15,166	14,364	14,889			
DUERO	16,485	17,580	17,876	18,861			
GARCIA HERNANDEZ	21,428	23,038	24,194	24,430			
GUINDULMAN	31,028	31,789	32,408	34,104			
INABANGA	40,714	43,291	45,880	48,534			
JAGNA	30,643	32,566	33,892	35,832			
GETAFE	26,826	27,788	30,955	33,422			
LILA	10,322	11,985	12,257	12,240			
LOAY	14,433	16,261	16,691	17,855			
LOBOC	15,734	16,312	15,993	17,418			
LOON	45,215	42,800	43,034	44,224			
MABINI	27,250	28,174	27,171	28,701			
MARIBOJOC	16,786	20,491	20,688	22,178			
PANGLAO	21,337	28,603	33,553	39,839			
PILAR	25,095	26,887	27,256	28,693			
PRES. CARLOS P. GARCIA (PITOGO)	20,744	23,287	23,356	23,625			
SAGBAYAN (BORJA)	18,346	20,091	22,339	24,335			
SAN ISIDRO	9,106	9,125	8,744	9,909			
SAN MIGUEL	20,828	23,574	24,135	25,356			
SEVILLA	10,281	10,443	10,661	11,376			
SIERRA BULLONES	25,499	24,698	24,745	26,095			

		TOTAL POPULATION					
	01-May 2000	01-May- 2010	01-Aug- 2015	01-May- 2020			
SIKATUNA	6,602	6,380	6,726	6,906			
CITY OF TAGBILARAN (Capital)	77,700	96,792	105,051	104,976			
TALIBON	54,147	61,373	66,969	71,272			
TRINIDAD	25,683	28,828	31,956	35,119			
TUBIGON	40,385	44,902	45,893	47,886			
UBAY	59,827	68,578	73,712	81,799			
VALENCIA	24,363	27,586	27,126	28,392			
BIEN UNIDO	22,176	25,796	27,115	26,666			

Source: PSA, Census of 2000, 2010, 2015 & 2020, Bohol Province

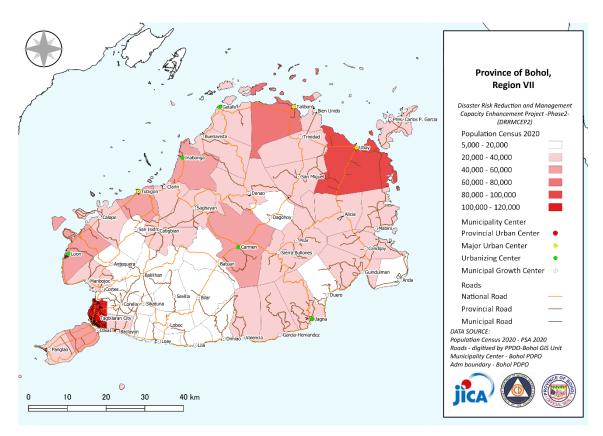


Figure 2: Population Size Map in 2020 (Source: PSA 2020)

Household Characteristics

There are a total of 322,022 households in the province of Bohol with an average household size of 4.3 members per household (PSA, 2020).

Density and Urbanization

As of 2020, Tagbilaran City, Dauis, Bien Unido, Panglao, Cortes, Baclayon, Tubigon, Talibon, Maribojoc, and Calape are the most populated LGUs.

Table 2: Population Density and Land Area

Area	Population (2020)	Land Area (km²)	Density (persons/km²)
PHILIPPINES	109,033,245	300,000.00	363
Region VII – Central Visayas	8,081,988	15,872.58	598
Bohol	1,394,329	4,772.52	288
Tagbilaran City (Capital)*	104,976	36.50	2,876
Dauis**	52,492	43.33	1,211
Bien Unido**	26,666	27.39	974
Panglao*	39,839	47.79	834
Cortes**	18,344	27.32	671
Baclayon*	22,461	34.43	652
Tubigon **	47,886	81.87	585
Talibon**	71,272	140.46	507
Maribojoc	22,178	49.35	449
Calape	33,079	75.36	439

Notes:

Physical and Infrastructure

General Land and Water Characteristics

Bohol is composed of 12 rock formations. The oldest rock formation belongs to the Basement Complex particularly found at the eastern flank of the island. Because of the sub-crustal movements like faulting, seven different geomorphological landforms were produced, namely, (1) Anda Peninsula, (2) Loon Peninsula, (3) Northwestern Area, (4) Central-Northern Sedimentary Area, (5) Eastern Volcanic, (6) Limestone-Haycock Hills and (7) Central Volcanic. The elevation ranges from zero in the coastal areas where subsidence occurred after the 2013 Earthquake to 800 meters in the mountainous areas (Figure 3).

^{*} Land area is based on cadastral survey (certified and provided to the DBM) from the LMB, DENR, as of December 2013.

Estimated land area (certified and provided to the DBM) from the LMB, DENR, as of December 2013.

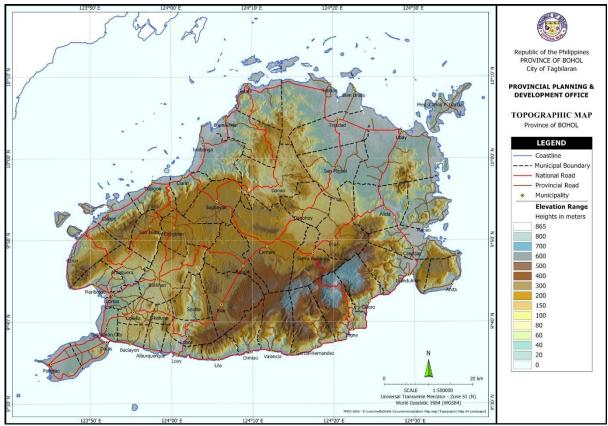


Figure 3: Topographic Map (Source: PPDO Bohol)

Bohol as an island province has a total land area of 4,772.52 square kilometers, 654 kilometers of coastline and 6,245 kilometers of inland waterways.

This system supplies water for domestic, agricultural, and industrial uses mainly based on 2,224 springs, 59 rivers and 200 creeks. There are 22 river basins or watersheds that are valuable sources of water for drinking and irrigation (Figure 4). Surface water from rivers and streams in these basins are impounded and distributed for irrigation, electric generation, and industrial use as well as for domestic use. The rivers and river estuaries in Bohol (Figure 5) are the other sources of surface water commonly serving as harbors and navigation routes, areas for aquaculture development (Inabanga River), fishing and sand quarrying (Abatan River) and recreation and tourism (Cambuhat River in Buenavista and the Loboc River in Loboc and Loay towns). They also provide water for irrigation (Malinao Dam on the Wahig River that feeds the Bohol Irrigation Project-Stage I) as well as domestic and industrial uses such as power supply (Loboc River Hydro-power Plant and mini hydro-power plants in Sevilla and Balilihan municipalities).

Irrigation

Irrigation system includes the three national irrigation systems namely, Bohol Irrigation System-Stage 1 (Malinao Dam), Capayas Irrigation System and Bohol Irrigation System—Stage 2 (Bayongan Dam), and communal irrigation systems including constructed/assisted by the government and privately-owned scattered in the different municipalities.

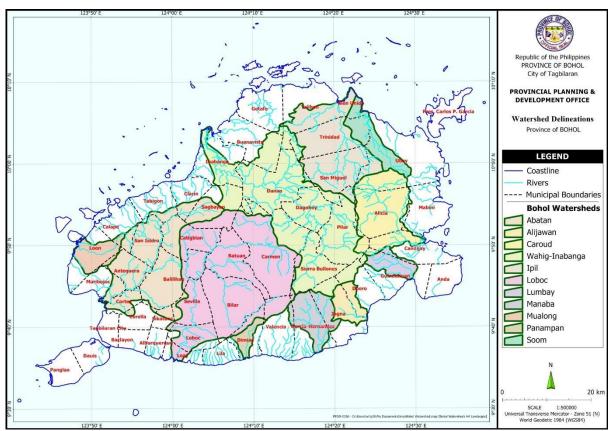


Figure 4: Watersheds Map (Source: PPDO Bohol)

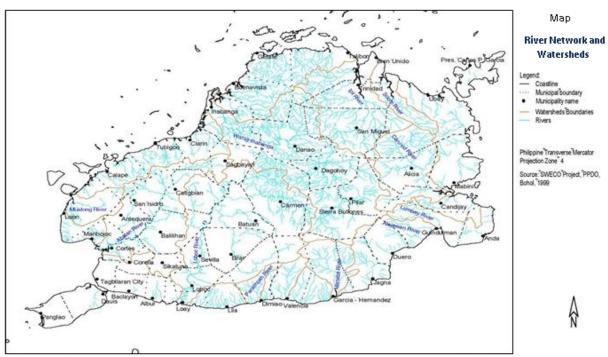


Figure 5: Watershed and River Systems Map (Source: PDPFP 2016-2028)

Roads and Bridges

Bohol has a total length of 6,131.725 kms. as per Road and Bridge Inventory and Condition Survey (RBICS) of December 31, 2016. The longest sections of these roads are barangay roads (66%), followed by provincial roads (13.6%), national roads (11.0%), city roads (1.5 %), municipal roads (5.0%) and farm to market roads (2.0%). A very small portion are either privately owned (0.3%) or are used as NIA access roads (0.6%).

The roads within the province are classified according to type of pavement: asphalt, concrete, gravel, and earth. The data from the Provincial Engineer's Office shows that as of December 2016 roads under the Department of Public Works and Highways have the longest length of asphalted or concreted roads; on the other hand, barangay roads have the longest length of gravel or earth roads.

The National government is maintaining the majority of the length of the province's bridges (57%). Seventy-seven (77) bridges with a total length of 1.579 kilometers are under the jurisdiction of the Provincial Government. Barangay/ Municipal bridges account for 24%

National bridges have the longest length in concrete and steel-type bridges, while barangay bridges have the longest length in timber and bailey-type bridges.

Provincial Roads and Bridges. The provincial roads are distributed in the three Project Management Divisions (PMDs), with the grouping just slightly different from that of the congressional districts.

Of this total, PMD 1 has 49 roads totaling 260.403 kms; PMD 2 has 38 roads totaling 220.379 kms; and, PMD 3 has 70 roads totaling 354.768 kms. Sixty-two percent (62%) of provincial roads are graveled and most of these road sections are in PMD III. .1

Table 3: Roads by Type of Pavement (LRNDP, 2018-2022)

Project Management	vement/Surface T	ype		
Division	Road length (km)	Asphalt (km)	Concrete (km	
PMD 1	260.403	17.026	147.427	95.549
PMD II	220.379	10.868	157.152	51.988
PMD III	354.768	16.448	213.944	123.569
TOTAL	835.55	44.342	518.523	271.106
	33%	5%	62%	100%

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¹ Local Road Network Development Plan, 2018-2022, PPDO

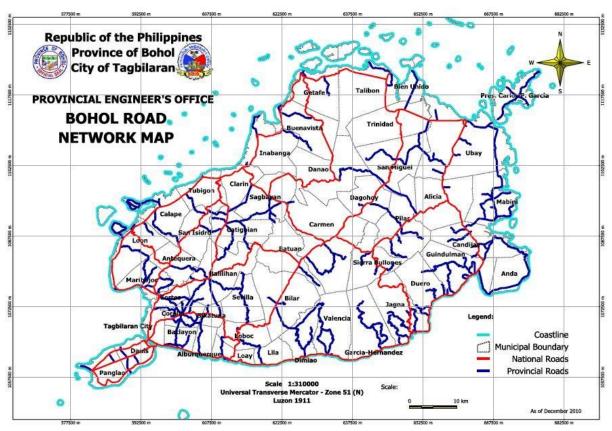


Figure 6: Road Network Map (Source: PPDO Bohol)

Sea Ports

The province has one base port located in the Port of Tagbilaran, four terminal ports located in Tubigon, Talibon, Ubay and Jagna while two outports are distributed in strategic locations in Catagbacan, Loon and Getafe Port.

Lifeline Facilities

Power and Communications

The province of Bohol is wired with the rest of the world through the state-of-the-art telephone facilities that provide domestic and international linkages through three service providers, namely PLDT/SMART, CRUZTELCO and Globelines where the public calling stations are scattered throughout the province. CRUZTELCO concentrates their telephone services in Tagbilaran City, Jagna, Calape and Tubigon. PLDT and CRUZTELCO also provide payphones capable of international direct dialing. The Digital Telephone Exchange funded by the DOTC operates in the municipality of Tubigon, Talibon and Ubay.

Bohol is supplied primarily by power plants located in Leyte and Cebu, with more than 50% for Bohol Electric Cooperative I (BOHECO-I), 100% for Bohol Light Company, Inc. (BLCI) and BOHECO-II. The province has indigenous Hydro Power resources, as evidenced by the existing 7.5 MW hydro power plant (about 11% of current total demand of the island). The Visayas Wholesale Electric Spot Market (WESM) supplies up to 29% of energy mix for BOHECO-I. On the transmission system, Bohol is quite vulnerable owing to a single Bohol transmission interconnection with Leyte. There is also the problem of line congestion because the National Grid Corporation (NGCP) implements Manual Load Dropping (MLD).

Social Services and Facilities

Health and Sanitation Facilities

The Department of Health (DOH) ensures compliance to quality standards on health services through accreditation of health facilities. With this, the department provides assistance to the Provinces and Local Government Units (LGUs) through the Health Facility Enhancement Program (HFEP). A macroplant for the upgrading/development of government hospitals to those of LGUs, DOH and other national government agencies like the DND, DILG-PNP SUCs and UP System.

The program aims to improve health infrastructure and allocates medical /dental equipment among government hospitals, Rural Health Units (RHUs) and Barangay Health Stations (BHS). This quality improvement in health infrastructure aims to support the facility to comply and qualify with the necessary requirements for License to Operate (LTO) set by the DOH and for the accreditation to PhilHealth in TSEKAP, TB-DOTS, Newborn Screening, Animal Bite Treatment Center and Maternity Care Package for RHUs/BHS. A bulk of the budget is intended for health facility upgrading coupled with improving the systems for health facility operations and management. Furthermore, health facility enhancement also increases the LGU's revenue from the National Health Insurance Program (NHIP) benefits and other medical and non-medical revenue that help sustain the health facilities in providing quality services especially to the poor.

Table 4: List of RHUs with DOH LICENSING and PHILHEALTH ACCREDITATION

		DOH Licensing/Accreditation			PHILH	EALTH Acc	reditation
NAME OF RHU	PCF	Birthing Facility	TB DOTS (PHILCAT Cert)	Ambu- lance	Konsulta Package	МСР	TB DOTS
1. Alburquerque		✓	✓				
2. Alicia		✓	✓				✓
3. Anda		✓	✓				✓
4. Antequera		✓	✓				
5. Baclayon		✓	✓			√	
6. Balilihan		✓	✓				✓
7. Batuan		✓	✓			√	
8. Bien Unido		✓	✓				✓
9. Bilar		✓	✓				✓
10. Buenavista			√				
11. Calape			V				
12. Candijay		✓	√	V		✓	√

13. Carmen	✓ l	✓		V	
14. Catigbian		✓			
15. Clarin		✓			✓
16. Corella	✓	√			✓
17. Cortes	✓	√		✓	
18. Dagohoy	✓	✓			✓
19. Danao		✓			✓
20. Dauis	✓	√			✓
21. Dimiao	✓	√		✓	
22. Duero	✓	√			✓
23. Garcia Hernandez	✓	√			√
24. Guindulman		✓			✓
25. Inabanga	√	✓		✓	
26. Jagna RHU 1	√	✓	✓		√
27. Jagna RHU 2		✓			
28. Jetafe	✓	√			✓
29. Lila	✓	✓		√	
30. Loay	✓	√		✓	
31. Loboc	✓	✓			✓
32. Loon RHU 1		√			√
33. Loon RHU 2		✓			
34. Mabini	✓	√	√		✓
35. Maribojoc	√	✓		✓	
36. Panglao	✓	~		>	

37. Pilar		✓	√			✓	
38. Pres. CPG			√				
39. Sagbayan			✓				
40. San Isidro		✓	√				√
41. San Miguel			✓		√		
42. Sevilla		✓	✓	✓		~	
43. Sierra Bullones		✓	√				V
44.) Sikatuna		✓	✓	√			~
45.) Tagbilaran City (Capital)		✓	~			P	√
46.) Tagbilaran Birthing ang Baby Care Facility		✓	~			~	V
47.) Talibon		✓	√				V
48.) Trinidad		✓	✓		√		V
49.) Tubigon		✓	√	√			V
50.) Ubay RHU 1		✓	✓				√
51.) Ubay RHU 2		✓	✓				~
52.) Ubay RHU 3							
53.) Valencia			√				
TOTAL	0	41	52	8	2	40	29
PERCENTAGE	0%	77%	98%	15%	4%	75%	55%

Source: RLED, PHO, DMO (2022)

Table 4 shows that none of the fifty-three (53) CHO/RHUs are accredited on PCF. The Regulation, Licensing, and Enforcement Division (RLED) of the Center for Health Development Central Visayas (CVCHD) just recently cascaded the licensing of PCF last 2021, hence the reason for the low accomplishment. All of the CHO/RHUs in the Province of Bohol are still working to meet the standard set by the Health Facility Services and Regulatory Bureau (HFSRB).

For Birthing Homes, although there are a lot of existing birthing centers yet there are only forty-one (41) or seventy-seven percent (77%) of CHO/RHUs have licensed birthing home facilities and out of that, only forty (40) or seventy-five percent (75%) are accredited for Maternal Child Package (MCP). In general, there is a high percentage of compliance in Birthing Home but those that are not accredited are due to inadequate manpower and lack of training such as the Basic Life Support (BLS) and Basic Emergency Obstetrics and Newborn Care (BEmONC) Training. Although the DOH has provided assistance with physical infrastructure, medical equipment, supplies, and medicines yet there are RHUs that are still insufficient to provide the service.

On the other hand, with the efforts and determination of the public health sectors in the entire province of Bohol almost all RHUs were able to accredit their facility to TB DOTS except Ubay RHU 3 which was just inaugurated on November 2021 but was badly hit by Super Typhoon Odette last December 16, 2021. Fifty-two (52) or ninety-eight percent (98%) have TB DOTS licenses and out of that, only forty (40) or seventy-five percent (75%) are PhilHealth Certified TB DOTS. Though the majority of the public health facilities are TB DOTS licensed there are still thirteen (13) or twenty-five percent of CHO/RHUs that were not able to accredit their facility to PhilHealth because of the following hindering factors namely: lack of manpower specifically on Medical Technologist, partially-damaged infrastructure due to Super Typhoon Odette and lack of equipment and supplies to qualifying for a standard NTP Laboratory.

Table 5: Birthing Facilities with DOH LICENSING and PHILHEALTH ACCREDITATION

	Private Birthing Homes with DOH license			
No.	LGU	Birthing Facility	ABC	
1	Tagbilaran City	Bohol Lying-In Clinic	3	
2	Tagbilaran City	IMAP Lying-in Clinic, Inc. – Bool Branch	1	
3	Calape	IMAP Lying-in Clinic, Inc. – Calape Branch	4	
4	Tagbilaran City	IMAP Lying-in Clinic, Inc. – Calceta Main	2	
5	Carmen	IMAP Lying-in Clinic, Inc. – Carmen Branch	1	
6	Loon	IMAP Lying-in Clinic, Inc. – Catagbacan Branch	1	
7	Tagbilaran City	IMAP Lying-in Clinic, Inc. – St. Camillus Branch	2	
8	Duero	IMAP Lying-in Clinic, Inc. – Duero Branch	7	
9	Panglao	IMAP Lying-in Clinic, Inc. – Panglao Branch	2	
10	Talibon	IMAP Lying-in Clinic, Inc. – Talibon Branch	1	
11	Tubigon	IMAP Lying-in Clinic, Inc. – Tubigon Branch	10	
12	Dauis	IMAP Lying-in Clinic, Inc. – Totolan Branch	1	
13	Tagbilaran City	IMAP Lying-in Clinic, Inc. – UB Branch	2	
14	Ubay	Ma. Teresa Onate Maternity and Lying-in Clinic	3	
15	Tagbilaran City	Mary Our Mother OBGYN & Birthing Clinic	3	

16	Jagna, Bohol	San Pedro Calungsod Maternity & Lying-in Clinic	6
		Total	49

Source: RLED, PHO (2022)

Table 5 shows that there are sixteen (16) birthing homes owned by private individuals or cooperation. Twelve (12) or seventy-five percent (75%) are owned by IMAP Incorporation, owning the majority of private birthing homes in the Province of Bohol. Private birthing homes are distributed in different municipalities of the province but six (6) or thirty-seven (37%) are concentrated in Tagbilaran City.

Birthing Homes that are licensed by DOH CVCHD are no longer monitored by the PhilHealth Accreditation Team since the standards set by the two agencies are almost similar. Those birthing homes that are accredited by PhilHealth but with no DOH license is still under the monitoring and assessment of PhilHealth every year. However, details of these facilities are not included in this report.

Table 6: Public and Private Hospitals in Compliance to DOH Licensing

No.	Name of Hospital	Compliance of Hospitals to DOH Licensing		
		License Level	Authorize Bed Capacity	Ownership
1.	Allied Care Experts (ACE) Medical Center	Level II	100	Private
2.	Borja Family Hospital Corp.	Level I	40	Private
3.	Calape Mother & Child Hosp.	Infirmary	12	Government
4.	Candijay Community Hosp	Infirmary	10	Government
5.	Catigbian District Hospital	Level I	25	Government
6.	CDG Bohol Doctor's Hospital Incorporated	Infirmary	24	Private
7.	Clarin Community Hospital	Infirmary	15	Government
8.	Conception Memorial Hosp.	Level I	40	Private
9.	Cong.Simeon G. Toribio Memorial Hospital	Level I	40	Government
10.	Cong. Natalio P. Castillo Sr. Memorial Hospital	Infirmary	25	Government
11.	Dimiao Municipal Infirmary	Infirmary	10	Government

12.	Don Emilio Del Valle Memorial Hospital	Level I (DOH retained)	200	Government
13.	Dr. Lim's Clinic & Hosp	Level I	25	Private
14.	Francisco Dagohoy Municipal Hospital	Infirmary	10	Government
15.	Garcia Memorial Prov. Hosp.	Level I	75	Government
16.	Gov.Celestino Gallares Memorial Hospital	Level III (DOH retained)	200	Government
17.	Holy Name University Medical Center, Inc.	Level II	70	Private
18.	Lim Community Hosp	Level I	25	Private
19.	Maribojoc Community Hospital	Infirmary	15	Government
20.	Medical Mission Group Hosp. & Health Services Cooperative (Bohol)	Level I	50	Private
21.	Pres. Garcia Municipal Hospital	Infirmary	10	Government
22.	Ramiro Community Hospital	Level II	118	Private
23.	San Miguel Hospital	Infirmary	10	Government
24.	Tagbilaran Community Hospital Corporation	Level II	58	Private
25.	Teodoro B. Galagar District Hospital,Jagna	Level I	75	Government
26.	Tubigon Community Hospital	Infirmary	15	Government

Source: RLED, PHO (2022)

The Province of Bohol has twenty-six (26) Licensed Health Facilities distributed in different municipalities of the province both government and privately owned.

Eleven (11) or forty-two percent (42%) are classified as Infirmary. Of which, ten (10) or ninety-one percent (91%) are government owned while only one (1) or nine percent (9%) is privately owned. The majority of these hospitals were classified as Level 1 but last 2012 they were reclassified due to non-conformity of the new standard as stated in Administrative Order 2012-0012 "Rules and Regulations Governing the New Classification of Hospitals and Other Health Facilities in the Philippines". An infirmary is no longer classified as a hospital but as a Primary Care Facility which is the first-contact healthcare facility for patients and offers basic healthcare services such as emergency service and provision of normal deliveries.

Ten (10) or thirty-eight percent (38%) are classified as Level 1 Hospitals of which five (5) or fifty percent (50%) are government owned and the other half are privately owned. A Level 1 Hospital has the capabilities mentioned in the infirmary plus with Operating Room, Isolation Room, Dental Services, Blood Station, Secondary Level of Clinical Laboratory, and Licensed Pharmacy.

Four (4) or fifteen percent (15%) are classified as Level 2 hospitals of which all or one hundred percent (100%), are privately owned. Level 2 hospitals have all the capabilities stated in level 1 hospitals plus the provision of an Intensive Care Unit (ICU), Neonatal Intensive Care Unit (NICU), High-Risk Pregnancy Unit (HRPU), Respiratory Therapy Services, Tertiary Clinical Laboratory, Level 2 Radiology with mobile X-ray Unit and should be departmentalized in 4 specialties namely: Medicine, Pediatric, Surgery, and Obstetrics and Gynecology.

Only one (1) or four (4%) is classified as a Level 3 hospital which is a DOH retained facility in Tagbilaran City. A level 3 hospital has all the capabilities stated in level 2 hospitals plus the provision of a physical and rehabilitation unit, ambulatory surgical clinic, dialysis facility, blood bank, Tertiary Clinical Laboratory with histopathology examination, Level 3 Radiology with interventional radiology, and should be a teaching and training hospital with an accredited residency training program for four (4) major specialties namely: Medicine, Pediatric, Surgery, and Obstetrics and Gynecology.

In 2017, the total number of households reached 259,139. Out of this, only **224,996** have existing sanitary toilet facilities or **86.82%**. In succeeding year of 2018, the no. of sanitary toilet facilities is increasing to **231,356** and by the year 2019 as the number of household increases to **298,462**, the number of households with sanitary toilet facilities also decreases to 233,933 (8.4%) for mostly of our newly constructed houses especially the tiny houses, sanitary toilet is not included during the construction so our households with sanitary toilet are decreasing by 8.42% same with the succeeding year of 2020 it decreases more to 208,967. Last year of 2021 marks the highest no. of **Households with Basic Sanitation Facility(new indicator)** to **266,313 (88%)**. Through the years, the Provincial Health Office distributed Latrine materials, a support from DOH National (bowls only) and a complete set of latrines through the funding from the Provincial Government of Bohol.²

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² Regulations, Licensing and Enforcement Division, DOH7, PHO

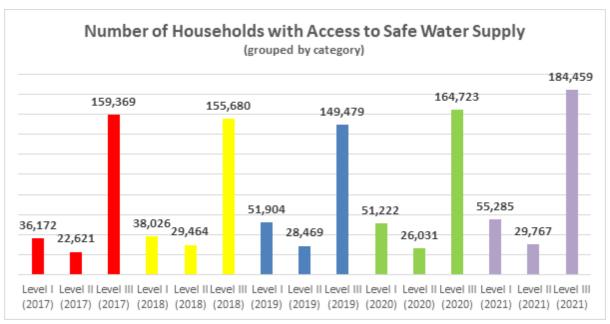


Figure 7: Number of Household with Access to Safe Water Supply

Source: PHO, 2021

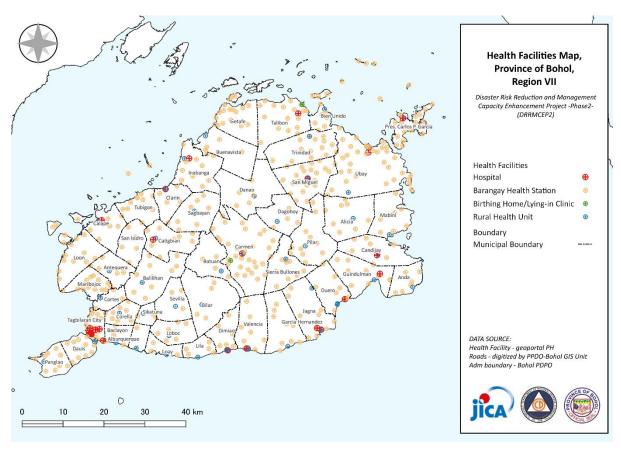


Figure 8: Health Facilities Map (Source: geoportal PH, DOH)

Educational Facilities and Services

As of 2022, there were 1,341 schools providing basic education to the school-age population. Almost 85% of these schools are owned and operated by the government as shown in Table 7.

Table 7: Number of Educational Facilities, Public and Private: SY 2022 Bohol Province

Level of Education	Owners	Total	
Level of Education	Public	Private	Total
Bohol	1,146	195	1,341
Elementary Schools	950	78	1,028
Bohol Division	933	58	991
City Division	17	20	37
Secondary Schools	196	117	313
Bohol Division	189	98	287
City Division	7	19	26

Regarding higher education, there are 25 higher education institutions (HEIs), wherein three are universities, namely Bohol Island State University (BISU), Holy Name University and University of Bohol.

Housing

In 2020, a total of 259,520 occupied housing units were registered, with a ratio of 1.01 households or 4.8 persons per occupied housing unit. 33.9% of the occupied housing units had outer walls made of concrete, brick or stone, compared to 18.3% in 2010. In parallel to this trend, the proportion of housing units with outer walls made of wood has decreased from 26.3% in 2000 to 17.2% in 2010.

Regarding the roof material, the ratio of housing units with roofs made of galvanized iron or aluminum has increased from 73.2% in 2010 to 80.8% in 2020.

The built-up areas include residential, commercial, industrial and institutional areas as well as parks and open spaces. During the years prior to 2016 which is the base year of the Planning Period for the PGBH Shelter Plan, there was a dramatic growth in terms of catering to the housing needs of informal settlers, urban poor and the housing concerns of the higher income bracket households including the government employees of the Province.

Social Welfare

Social Protection

The government has worked towards converging and aligning its responses to poverty vis-àvis the identified four Social Protection components, namely Social Welfare, Social Safety Nets, Social Insurance, and Labor Market Interventions. Social insurance programs cushion the risks associated with unemployment, ill health, disability, work-related injury and old age; social assistance and welfare service programs are for the vulnerable groups with inadequate means of support, including single mothers, the homeless, or physically or mentally challenged people; micro and area-based schemes address vulnerability at the community level, including crop/agricultural insurance, social funds and programs to manage natural disasters; and child protection program ensures the healthy and productive development of children. Most notable of the SP programs and interventions in this sector are on social health insurance and social welfare benefits.

Social Welfare Facilities

Government-run facilities found in the province include:

- ✓ Bohol Crisis Intervention Center for Women and Children in Tagbilaran City and 2
 Satellite VAW Centers located in Tubigon and Ubay providing residential care to
 abused women and children
- √ 5 Stimulation and Therapeutic Centers found in Tagbilaran City, Batuan, Jagna, Tubigon and Ubay providing rehabilitation services and non-formal training to poor children with different disabilities
- ✓ Sunshine Home in Tagbilaran City providing residential care to abandoned, neglected and orphaned children sponsored by the Catholic Women's League (CWL) and subsidized by the Provincial Government
- ✓ Bohol Therapeutic Massage Clinic in Tagbilaran City, a livelihood center for persons with different disabilities
- √ 3 Model Senior Citizens Centers situated in Tagbilaran City, Loon and Ubay and 8
 Day Centers for the Elderly/ Municipal Senior Citizens Centers in the municipalities
 of Alburquerque, Calape, Dagohoy, Jagna, Garcia- Hernandez, Sagbayan, Talibon,
 and Tubigon. All municipalities have organized their Senior Citizens Association
- √ 1,257 Day Care Centers found in all barangays of Bohol
- ✓ Support counseling facility initiated by the Alburguerque LGU
- √ Temporary Shelters in Brgy. Tagbuane and East Poblacion both in the municipality of Alburquerque
- ✓ Therapeutic/Crisis Center in Brgy. Guinsularan (Duero) and Brgy. Baco (Anda)
- √ Resettlement Center for Rebel Returnees, Ubay, Carmen and Danao
- ✓ Privately-run and accredited by the DSWD such as: Arms of Love in Brgy. Lourdes, Cortes; Trinity Angels Home in Wepo, Alburquerque; Shepherd's Arms in Dao, Dauis

Economy

Agriculture

Land Utilization

The land available for agricultural use is 273,950 hectares, which is approximately 66% of the total area of the province. The land area of major crops planted or harvested is 148,673 hectares which represents 54% of the total agricultural land. These are mostly planted with palay, corn, coconut, vegetables, fruits, root crops and other crops.

About 42% of the provincial population is dependent or working in the agricultural sector.

Crops Development

According to the PSA's statistics data of 2021, 67,907 hectares of land were harvested with palay, of which 39,506 hectares are irrigated producing 132,849 metric tons while 28,401 hectares are rainfed or a production of 77,735 metric tons.

In 2021, there were about 10,256 hectares of land harvested with corn. Farmers engaged in corn production have limited farm size with land holdings between 0.5 hectares to 1.5 hectares. farmers planting yellow corn produced 8,298 metric tons while the yellow corn produced 4,362 metric tons. There are about 19 municipalities identified as key production areas for corn in Bohol.

Livestock And Poultry Development and Fish Production

The largest government production center in the country is the Ubay Stock Farm, where livestock production management, breed preservation, technical services and researches are offered, demonstrated and showcased. Organized active network of volunteers such as Barangay Livestock Aides "BALA" and village-based AI Technicians "VBAIT" are active and

provide immediate services in terms of livestock-related needs of farmers or raisers even in the far-most communities.

On livestock, the biggest inventory for Bohol is swine with 334,358 heads or 57% of the total inventory, followed by goat with 99,185 heads of 17%, carabao with 80,165 heads or 13% and cattle 74,582 heads still at 13%.

Bohol has enough supply of chicken with 3,830,427 heads or 98% of the poultry inventory with duck completing the 2% or 66,633 heads.

Regarding fishery, the production was around 56,316.82 metric tons for the four (4) subsectors - aquaculture, municipal, commercial and inland. Top five (5) aquaculture species are seaweeds 87.99%, milkfish 6.21%, vannamei 3.83%, oyster 0.87%, tiger prawn 0.66% and all other species compose the 0.44%. Top five (5) producing municipal species are squid with 1,352.09 metric tons, siganid 1,075.58 MT, big-eyed scad 985.27 MT, anchovies 763.27 MT and Bali sardinella 721.79MT.

Tourism, Culture, Arts, and Heritage

The pandemic had deeply impacted the tourism of Bohol. Bohol only recorded 177,341 tourist arrivals in 2020, not even 10% from the 1,581,904 arrivals in 2019. By year 2021, tourist arrival was expected to increase following the opening of domestic borders and the distribution of vaccines. As the Province opened its door to visitors, local tourism stakeholders, both public and private, have been working together to promote Bohol as one of the safest, most attractive and convenient ecotourism destinations in the country. Bohol recorded a total of 179,781 with domestic tourists getting 99.37% share from the total arrivals.

The Bohol Province has 20 churches, 4 watchtowers and lighthouses, 2 architectural bridges, 6 ancestral houses, 5 old buildings, and 2 plazas declared as cultural properties. This also includes the old cemetery in Panglao built during the spanish colonial period, the Blood Compact Monument in Tagbilaran City by National Artist Napoleon Abueva, and the Lamanoc Archaeological Complex in Anda.

Tarsier and Chocolate Hills are important protected natural heritage, and Chocolate Hills was declared as a geological monument by the National Commission on Geological Science on 18 June 1988.

Four historical markers in Dauis and Maribojoc towns were installed in May 2009 by the National Historical Institute (NHI), in addition to the Baclayon Church, Clarin Ancestral House and Loboc Church. The unveiling of the markers of Dimiao, Panglao, Maribojoc, Loon, Dauis, and Baclayon Church complexes as national cultural treasures including the Punta Cruz watchtower of Maribojoc was done in July 2012. Furthermore, the Bohol Capitol Building and old Escuela de Niño Building were declared as Important Cultural Properties by the National Museum. Many of Bohol's artifacts, antiques and other cultural or heritage treasures are housed at the National Museum.

Manufacturing and MSMEs

The manufacturing sector is composed of small-scale, home-based enterprises with assets below Php 3 Million. Majority of these businesses are involved in hand weaving and food processing. Bohol is well-known as the weaving capital of Central Visayas. There are not any large-scale factories operating in the province. The Philippine Mining Service Corporation in Garcia-Hernandez generates quarried limestone which is shipped to the PhiViDec Industrial Estate in Mindanao for sintering.

The MSME sector is considered as a critical driver in the province's economic growth. According to the Department of Trade and Industry (DTI), there is a total of 38,362 business name registration as of October 2022. From this figure, a total of 32,554 are new business registrations while only 5,808 are renewal. A total of 10,160,820,840 investment was generated from MSMEs from 2017 up to the present.

2. Risk Profile

Past Disasters Timeline and Impacts

The Province of Bohol is prone to a wide range of natural and also human-induced hazards. The following tables show the historical timeline of past natural disasters in the province.

Table 8: Summary of Disaster Incidents in the Province of Bohol

Table 8: Summary of Disaster Incidents				
Date/Year	Nature of Event (natural/man-made)	No. of Occurrences	Location	Cost of Damage (million pesos) (Php)
October 2004	Flash Flood	1	Jagna	0.100
January to Dec. 2005	Heavy rains, landslide, fire incidents, typhoon, earthquake	7	Jagna, Getafe, Calape, Tagbilaran City	15.048
January to Dec. 2006	Disease outbreak (diarrhea), lightning incidence, landslide, sea mishap, capsized vessel, tidal waves, land cracks, typhoons	18	Loon, Pilar, Tubigon, Ubay, Valencia, Loay, Panglao, Jagna, Candijay, Bien Unido, Getafe, Cortes, Alicia, Sierra Bullones, Batuan	16.450
January to Dec. 2007	Landslide, fire incidents, whirlwind (alimpus), lightning incidents, poisoning, drowning, earthquake, capsized motor banca, typhoon	18	Tagbilaran City, Jagna, Pres. Garcia, Talibon, Getafe, Trinidad, Pilar, Tubigon, Valencia, Ubay, Loon, Loboc, Loay, Candijay	6.547
January to Dec. 2008	Flash Flood, fire incident, landslide, typhoon, capsized vessel/fishing boat, airplane crash	28	Clarin, Tubigon, Tagbilaran City, Cortes, Buenavista, Panglao, Balilihan, Pilar, Talibon, Loon, Lila, Getafe, Dimiao, Loboc, Pres. CPG, Guindulman, Inabanga	30.828
March 2010- October 2013	Earthquake	6	17 hardest municipalities: North and south- western part of Bohol; Maribojoc, Loon, Tubigon, Calape, Clarin Inabanga, Buenavista, Danao, Sagbayan, Catigbian, San Isidro, Antequera, Balilihan and Cortes; Southern municipalities of Loboc, Carmen, Lila, Guindulman, Duero, Jagna, G-Hernandez, Valencia, Loay Albuquerque, Baclayon and Tagbilaran City	7.8 Billion

Date/Year	Nature of Event (natural/man-made)	No. of Occurrences	Location	Cost of Damage (million pesos) (Php)
October 2014 -December 2014	Tropical Cyclones Queenie, Ruby and Seniang caused flooding events		Eastern and interior parts of Bohol	1,499.468 B
December 16, 2021	Typhoon Odette with torrential rains, violent winds, landslides and storm surges	1	Entire province of Bohol mostly damaging the northern towns of Bohol	41.642 Billion
April 27, 2022	Collapse of old steel Clarin Bridge in Loay causing 4 deaths and submerging 10 vehicles	1	Poblacion Ubos, Loay	
Total		78		7.949 B

Table 9: Matrix for Past Storm Surges/Big Waves Events in Bohol

Table 9: Matrix for Past Storm Surges/Big Waves Events in Bonoi				
Date/Year	POPULATION/AREAS AFFECTED	IMPACTS		
December 16, 2021 Typhoon Odette	Provincewide	Total damage: 41.642 Billion		
Nov. 27, 2014 TS Queenie; Dec. 6, 2014 TS Ruby and Dec. 29, 2014 TS Seniang	Provincewide	Total Damage: 1,499,468.00 Eastern and interior towns of Bohol		
June 25, 2008 Typhoon "Frank"	Talibon, Loon, Lila, Getafe, Dimiao, Guindulman	Total Damages – P3.2M Talibon – P1M Loon – P1.5M Lila – P0.1M Getafe – P0.3M Dimiao – P0.2M Guindulman – P0.1M		
May 12, 2008 Low Pressure Area	Province wide	No data		
May 8, 2008 TD "Butchoy"	Province wide	No data		
April 14, 2008 TD "Ambo"	Province wide	No data		
Nov. 11-12, 2007 TS "Lando"	Pres. Carlos P. Garcia Bien Unido Zamora, Talibon Buenavista Getafe Trinidad	Total Damages – P1.387M Pres. Garcia – P0.472M Bien Unido/Getafe – No data Zamora, Talibon – P0.76M Buenavista – No data Trinidad – P0.055M		
November 19, 2007 Whirlwind "Alimpus"	Pres. Carlos P. Garcia	Damaged houses – P1M		
June 16, 2007 Whirlwind "Alimpus"	Loon	No data		

Table 10: Matrix for Past Earthquake Events in Bohol

Table 10: Matrix for Past Earthquake Events III Bonoi			
DESCRIPTION	POPULATION/AREAS AFFECTED	IMPACTS	
October 15, 2013	17 hardest municipalities: North and south-western part of Bohol; Maribojoc, Loon, Tubigon, Calape, Clarin Inabanga, Buenavista, Danao, Sagbayan, Catigbian, San Isidro, Antequera, Balilihan and Cortes; Southern municipalities of Loboc, Carmen, Lila, Valencia, Loay Albuquerque, Baclayon and Tagbilaran City	Intensity 7.2 211 dead persons 877 injured and 8 missing persons Php 7.4 Billion damaged to major infrastructures, houses, government buildings, tourism facilities, properties and other businesses	
July 18, 2011 Earthquake	09.64°N, 124.58°E - 17 km "S 36° E of Guindulman (Bohol) 03:10 PM 09.61°N, 124.53°E - 17 km "S 15° E of Guindulman (Bohol) 05:02 PM	Intensity II No damage No damage	
June 11, 2011 Earthquake Magnitude 3.3 hits in the Province of Bohol	Loboc, Bohol Tagbilaran City Cortes, Bohol	Intensity III Intensity II No Damage	
August 28, 2010 Earthquake	Brgy. Tabahan, Brgy. Bulawan, Guindulman, Bohol	No damage	
June 21, 2010 Earthquake	Dauis, Bohol	No damage	
May 7, 2010 Earthquake	Jagna Garcia-Hernandez Duero Tagbilaran City	Intensity - III Intensity – III Intensity – II No Damage	
March 26, 2010 Earthquake	Tagbilaran, Dauis, Corella	No data	
January 8, 2009 Earthquake	Anda, Bohol	No damage	

Natural Hazard Characterization and Exposure Analysis

Hydrometeorological Hazards

Outline of hydrometeorological hazards in Bohol Province

Bohol's climate as classified by PAGASA belongs to Corona's 4th Type, characterized by rainfall more or less evenly distributed throughout the year. Intensification of the southwest monsoon usually occurs during the months of July to October. The rainfall varies from about 1,200 mm/yr around the coast to slightly more than 2,200 mm per year in the mountainous areas in the province. Based on the climatological records of Tagbilaran City weather station, the province has an annual average of 161 rainy days. Average rainfall and trend have illustrated a declining trend of 250 mm over a period of 35 years of about 7mm a year due likely to climatic change in the Southeast Asian Region. The coastal area of the province is warm in contrast with the interior part, which is colder especially during the night. Mean temperature is at 27.40 degrees Celsius.

Flooding

Definition

Flood-prone areas in Bohol include the influence areas of the eleven major rivers namely: Inabanga, Loboc, Abatan (Maribojoc), Moalong (Loon), Ipil (Trinidad), Soom (Trinidad), Carood (Mabini), Lumbay (Pilar), Alejawan (Duero), Manaba (Garcia) and Panangatan (Dimiao) Rivers. Aside from the areas where the rivers are located, the following towns were sites of flooding in 2011, namely: Jagna, Valencia, Guindulman, Alicia, Bien Unido, Clarin,

Sagbayan, and Antequera. These areas adjacent to the rivers have been the subject of seasonal destructive flash flooding which caused substantial damage to agricultural land and crops, infrastructure, dwelling and occasional loss of lives. The primary factor which contributes to the occurrence of these hazards is the denudation of the forest cover in the upper watershed areas and river tributaries. This causes heavy siltation resulting in the incapability of the river waterways to handle heavy flash flood water flow from the rain catchment area (PDPFP 2016-2028).

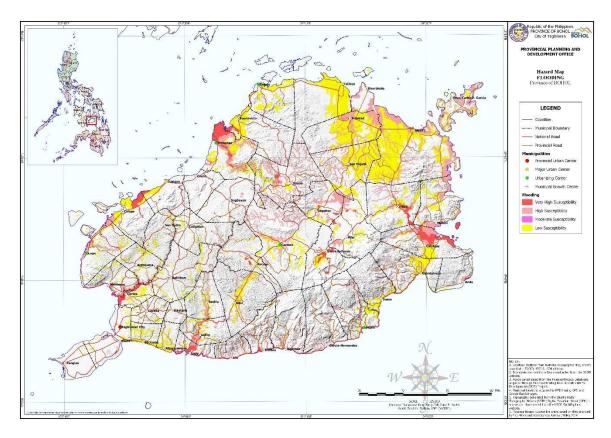


Figure 9: Flood Susceptibility Map (PPDO Bohol)

Previous Impacts

Bohol as an island is frequently affected by flash floods during the typhoon and the monsoon season. Based on data gathered by the province, for the years 2004-2011, there were 20 municipalities with 112 barangays affected by flood. The total estimated cost of damage to agriculture and infrastructure was P112,274,000.00 damaging about 623 hectares of rice fields (PDPFP 2016-2028). Prior to Typhoon Odette 2021, the province was affected by Typhoon Seniang in 2015. The population affected were in the municipalities of Loboc, Inabanga, Clarin, San Isidro, Tubigon, Alicia, Garcia-Hernandez, Valencia, and Duero. The estimated total damage cost is at Php 1.0 billion (PDPFP 2016-2028).

The recent Typhoon Odette in 2021, Bohol province is one of the hardest hit. This is evident in Table 11. Majority of the municipalities in all 3 districts were affected.

Table 11: Summary of Damage and Losses in Bohol (Typhoon Odette 2021)

Sector	Damage (in millions)	Losses (in millions)	Total (in millions) Php
Roads and Bridges	4,372.9575		4,372.957
Ports	283.614		
Power Sector	959.82	1,816	2,755.82
Flood Control	266		266
Water Supply and Distribution Systems	335.94		335.94
Irrigation	102.62	38.7	40.62
Telecommunications	55.78	15.16	70.94
Housing	31,036.29	1,157.01	4,565.92
Education (total of Tagbilaran City and whole province)	2,007.13	352.80	1,359.93
Health	431.94	7.10	439.04
MSMEs	1,061.46	1,533.49	2,594.95
Tourism	475.74		475.74
Agriculture	264.40	1,780.84	2,045.24

Source: Bohol Post-Odette Rehabilitation and Recovery Plan 2022, PPDO Bohol

Elements-at-Risk

Based on the disaster risk analysis data as of 2020, the top twenty-four (24) municipalities with a high exposed population are at risk as shown in Table 12. Among the listed municipalities, Candijay, Guindulman, Inabanga, and Loboc and are the most priority LGUs based on the observation and discussions, highlighted in orange. Likewise, the municipalities of Antequera, Duero, Garcia-Hernandez, and Lila have high populations at risk. Based on the PDPFP 2016-2028, the municipality of Inabanga has the highest number of barangays, totaling to 21, and Dagohoy with 11 barangays (PDPFP 2016-2028).

Table 12: Flooding - Population at Risk

Municipality	TOTAL EXPOSED POPULATION	POPULATION (Percentage)
Ubay	46,252	56.544%
Talibon	20,361	28.569%
Inabanga	18,523	38.165%
Trinidad	18,482	52.626%
San Miguel	11,471	45.241%
Pres. Carlos P. Garcia	10,492	44.409%
Candijay	9,384	31.155%
Calape	7,230	21.856%
Bien Unido	6,789	25.458%
Mabini	6,509	22.677%
Tagbilaran City	6,329	6.029%
Loay	5,541	31.034%
Guindulman	5,265	15.439%
Loon	4,937	11.163%
Cortes	4,902	26.722%
Getafe	4,861	14.545%
Carmen	4,704	9.564%

Municipality	TOTAL EXPOSED POPULATION	POPULATION (Percentage)
Buenavista	4,410	14.842%
Baclayon	4,300	19.144%
Tubigon	4,047	8.451%
Dagohoy	3,707	18.651%
Alicia	3,548	14.558%
Pilar	2,850	9.932%
Loboc	2,829	16.241%

Based on data presented in Table 13 and actual experience, the municipalities with agriculture at risk to flooding are determined, such as Candijay, Alicia, Pilar, Batuan, and Mabini in terms of Agri-fisheries while Buenavista, Mabini, and Sevilla for fisheries alone, and they are considered as priority LGUs. Livestock at risk are mostly in Alicia, Candijay, Guindulman, and Mabini.

Table 13: Flooding – Agriculture at Risk

Municipality	TOTAL EXPOSED AREA (Ha)	TOTAL (Percentage)
Ubay	11,096.678	67.415%
Trinidad	5,411.727	65.833%
San Miguel	5,012.776	49.897%
Talibon	3,389.494	42.766%
Inabanga	2,632.355	35.042%
Carmen	1,837.874	10.992%
Candijay	1,786.797	36.316%
Alicia	1,370.390	18.612%
Guindulman	1,292.682	23.386%
Dagohoy	1,238.307	25.072%
Bilar	1,212.613	36.468%
Pres. Carlos P. Garcia	1,181.460	41.003%
Pilar	1,100.490	10.943%
Calape	1,073.911	19.853%
Mabini	1,059.535	26.778%
Danao	977.923	15.089%
Buenavista	885.427	14.963%
Getafe	865.966	18.016%
Loboc	725.759	24.221%
Loon	637.524	11.304%
Duero	627.241	19.735%
Sierra Bullones	616.133	9.301%
Bien Unido	556.065	23.026%
Sevilla	545.232	14.357%
Jagna	535.298	9.439%
Valencia	454.977	8.289%
Loay	371.347	18.400%
Tubigon	345.086	6.421%
Batuan	281.512	8.606%

Storm Surge Definition

PAGASA defines a storm surge as **the abnormal rise in sea level that occurs during tropical cyclones**. It is caused by strong winds and low atmospheric pressures produced by tropical cyclones. Most of the storm surge-prone areas are located in the southeastern, southwestern, northern and western portions of Bohol. The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results. Sources of data are the Hazard Maps from Philippine Institute of Volcanology and Seismology (PHIVOLCS-DOST) 2008, Administrative boundary from the National Statistics Office (NSO) 2000 and the Topographic Map 1:50,000 scale from NAMRIA

Previous impacts

On June 25, 2008, six municipalities in Bohol, namely: Talibon, Loon, Lila, Getafe, Dimiao and Guindulman experienced Typhoon "Frank" with a total damage of P3.2M. On Nov. 11-12, 2007, Tropical Storm "Lando" affected the municipalities of Pres. Garcia, Bien Unido, Talibon, Buenavista, Getafe and Trinidad with a total damage cost of P1.387M. Whirlwind "Alimpus" on November 19, 2007 brought P1M worth of damaged houses in Pres. Garcia. The whole province of Bohol was affected by a low-pressure area on May 12, 2008, Tropical Depression "Butchoy" on May 8, 2008 and Tropical Depression "Ambo" on April 14, 2008 but there was no data available on the damages and cost (PDPFP 20116-2028).

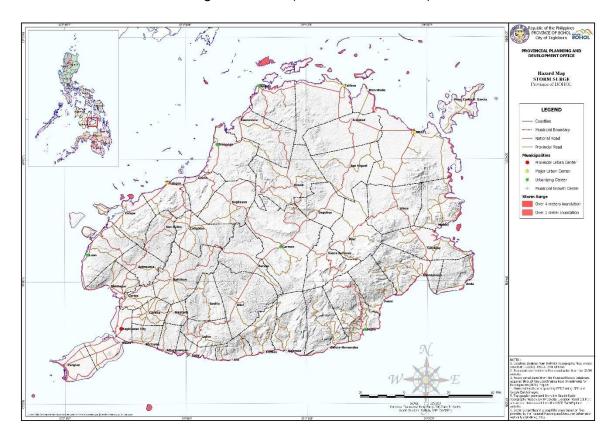


Figure 10: Storm Surge Hazard Map (Source: PPDO Bohol)

Elements-at-Risk to Storm Surges

The 30 coastal LGUs (Tagbilaran City, Dauis, Panglao, Baclayon, Alburquerque, Loay, Lila, Dimiao, Valencia, Garcia Hernandez, Jagna, Duero, Guindulman, Anda, Candijay, Mabini, Ubay, Trinidad, Pres. Carlos P. Garcia, Bien Unido, Talibon, Getafe, Buenavista, Inabanga, Clarin, Tubigon, Calape, Loon, Maribojoc, Cortes) with island barangays are prone to storm surge if aggravated by strong typhoons (PDPFP 2016-2028). Among the listed municipalities, Getafe, Panglao, Talibon, Calape, Tubigon, Inabanga, Candijay, Ubay, Loon and Tagbilaran city are the notably with high population at risk based on observations and discussions, highlighted in orange, shown in Table 14.

Table 14: Storm Surge – Population at risk

Municipality	TOTAL	TOTAL
Bien Unido	EXPOSED AREA 3,100	(Percentage) 11.625%
Pres. Carlos P. Garcia		8.713%
Getafe	2,059	8.619%
	2,881	
Panglao	2,229	5.596%
Baclayon	1,141	5.078%
Talibon	3,481	4.884%
Mabini	1,382	4.816%
Calape	1,416	4.280%
Loay	605	3.388%
Anda	555	3.120%
Alburquerque	319	2.840%
Tubigon	1,105	2.307%
Inabanga	1,087	2.240%
Candijay	672	2.230%
Ubay	1,724	2.107%
Loon	721	1.631%
Maribojoc	343	1.546%
Buenavista	399	1.342%
Lila	149	1.221%
Tagbilaran City	1,119	1.066%
Cortes	191	1.039%
Clarin	217	1.024%
Dimiao	111	0.747%
Guindulman	246	0.723%
Garcia-Hernandez	146	0.598%
Valencia	153	0.539%
Jagna	170	0.474%
Duero	89	0.470%
Dauis	67	0.128%
Trinidad	4	0.010%

Based on data presented in Table 15, the 30 coastal LGUs are under high risk in agricultural areas. The highlighted municipalities with agriculture at risk of storm surge are Talibon, Bien Unido, Ubay, Pres. Calros P Garcia, Panglao, Baclayon, Getafe, Anda, Mabini and Guindulman based on observation and discussions. Fish cages and seaweeds production areas are mostly affected.

Table 15: Storm Surge - Agriculture at Risk

Municipality	15: Storm Surge – Agricultui TOTAL	TOTAL
	EXPOSED AREA (Ha)	(Percentage)
Talibon	194.852	2.459%
Bien Unido	170.844	7.075%
Ubay	169.545	1.030%
Pres. Carlos P. Garcia	114.806	3.984%
Panglao	107.039	12.806%
Baclayon	59.419	5.188%
Getafe	56.702	1.180%
Anda	50.734	2.221%
Mabini	48.372	1.223%
Guindulman	43.259	0.783%
Loon	38.324	0.680%
Candijay	23.048	0.468%
Garcia-Hernandez	15.428	0.314%
Maribojoc	15.423	0.541%
Calape	14.503	0.268%
Buenavista	11.667	0.197%
Valencia	10.225	0.186%
Duero	10.001	0.315%
Dimiao	9.842	0.269%
Loay	9.513	0.471%
Inabanga	9.022	0.120%
Lila	8.651	0.633%
Jagna	8.431	0.149%
Alburquerque	7.865	0.429%
Tubigon	1.326	0.025%
Clarin	0.281	0.006%
Dauis	0.227	0.020%
Tagbilaran City	0.099	0.021%
Alicia	0.000	0.000%
Antequera	0.000	0.000%

In terms of critical lifelines, the national roads along the all 30 coastal LGUs; LGUs with island barangays are considered high risk. Furthermore, national roads located along Tagbilaran east road such as Panglao, Dauis, Baclayon, Alburquerque, Loay, Lila, Dimiao, Valencia, Garcia-Hernandez, Jagna and Duero are considered high risk. The Tagbilaran north road and Loon as well as provincial roads along Calape, Loon, Carlos P Garcia, including Calape and Loon that are connected by bridge are in high-risk areas.

Rain-Induced Landslide

Definition

The Philippine Institute of Volcanology and Seismology (PHIVOLCS) defines landslides as the mass movement of rock, soil, and debris down a slope due to gravity. It occurs when the driving force is greater than the resisting force. Landslides triggered by intense rainfall are called Rain-Induced Landslides (RIL).

Figure 11 shows the general hazard information of Bohol Province in terms of rain-induced landslides.

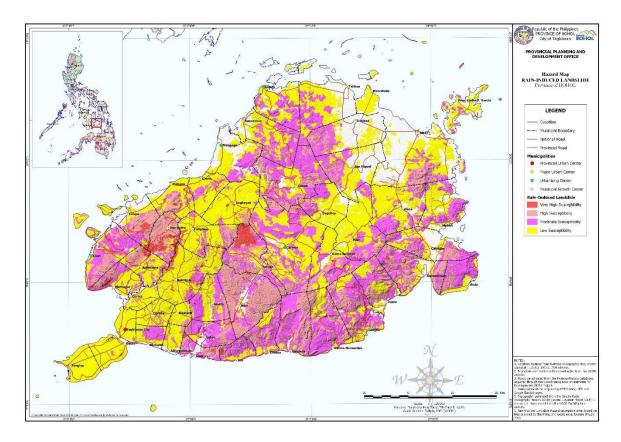


Figure 11: Rain-Induced Landslide Susceptibility Map (Source: PPDO Bohol)

Previous Impacts of Rain-Induced Landslide (RIL)

From July 1997 to July 2011, there were 14 municipalities and 23 barangays that were hit by landslides. At least 85 hectares of rice fields were damaged, 30 families and 416 persons affected although these figures could go higher as most of the incidents have no available data. Bohol suffered the worst rain-induced landslides in March 2011 that affected the municipalities of Bilar, Jagna, Tubigon, Talibon, Buenavista, and Sierra Bullones. Mostly affected or damaged are the roads but there was no data available on the cost of damages. Barangay Mayana of Jagna, Bohol suffered from landslides thrice in 2006 (March, August, September) and in July 2005.

Elements-at-Risk

As shown in Table 16, almost all LGUs are overlapping with landslide susceptibility areas in Bohol province. Seven (7) municipalities are determined to be the priority LGUs considering frequent landslide occurrence and their severity, which are Jagna, Valencia, Sagbayan, Sierra Bullones, Garcia-Hernandez, Dimiao and San Isidro. In addition to this, the municipalities of

Duero, Bilar, Loboc and Sevilla are also considered to be more exposed than the risk analysis data and considered the priority LGUs as well.

Table 16: RIL – Population at risk

Municipality	Table 16: RIL - Population at TOTAL EXPOSED POPULATION	TOTAL (Percentage)
Tagbilaran City	97,986	93.341%
Dauis	50,963	97.087%
Carmen	44,430	90.322%
Talibon	43,889	61.579%
Tubigon	43,272	90.365%
Panglao	39,220	98.446%
Loon	38,373	86.770%
Ubay	34,821	42.569%
Jagna	33,295	92.920%
Inabanga	28,705	59.144%
Guindulman	28,571	83.777%
Valencia	26,218	92.343%
Pilar	25,704	89.581%
Calape	25,195	76.166%
Buenavista	25,076	84.399%
Sagbayan	24,335	100.000%
Sierra Bullones	24,024	92.063%
Garcia-Hernandez	23,434	95.923%
Getafe	23,257	69.585%
Catigbian	23,051	96.834%
Mabini	21,984	76.595%
Clarin	21,022	99.359%
Alicia	20,826	85.442%
Candijay	20,550	68.230%
Maribojoc	19,465	87.768%
Baclayon	18,106	80.609%
Bien Unido	18,012	67.546%
Balilihan	17,864	95.560%
Danao	17,542	86.649%
Anda	16,956	95.379%
Duero	16,843	89.303%
Trinidad	16,528	47.064%
Bilar	16,186	87.434%
Dagohoy	16,167	81.347%
Loboc	14,580	83.704%
Dimiao	14,055	94.399%
San Miguel	13,881	54.746%
Antequera	13,693	91.345%
Cortes	13,422	73.169%
Batuan	13,042	94.202%
Pres. Carlos P. Garcia	12,448	52.692%
Loay	12,063	67.559%
Lila	10,981	89.718%
Sevilla	10,191	89.580%
San Isidro	9,551	96.391%

The agriculture at risk to RIL is highly observed in Sagbayan, S. Bullones, Jagna, Garcia-Hernandez and Duero based on experience. A total of 176,775 hectares are potentially affected by rain-induced landslides in Bohol Province. Figure 12 shows the susceptible municipalities with agricultural land prone to RIL.

Table 17: RIL - Agriculture at risk

Municipality	TOTAL EXPOSED AREA (Ha)	TOTAL (Percentage)
Carmen	14,865.517	88.910%
Pilar	8,919.666	88.697%
Sagbayan	7,184.710	99.166%
Sierra Bullones	5,999.862	90.569%
Alicia	5,992.564	81.387%
Catigbian	5,543.200	97.923%
Danao	5,499.681	84.856%
Ubay	5,341.770	32.452%
Jagna	5,134.079	90.530%
San Miguel	5,032.150	50.090%
Buenavista	5,024.417	84.908%
Tubigon	5,023.465	93.467%
Valencia	5,009.492	91.269%
Loon	4,970.219	88.129%
Clarin	4,681.354	99.468%
Inabanga	4,672.503	62.201%
Garcia-Hernandez	4,667.113	94.903%
Calape	4,329.202	80.034%
Guindulman	4,209.619	76.157%
Talibon	4,026.857	50.808%
Dagohoy	3,700.769	74.928%
Getafe	3,562.365	74.115%
Dimiao	3,466.192	94.634%
San Isidro	3,289.731	97.073%
Sevilla	3,244.695	85.440%
Candijay	3,127.382	63.563%
Batuan	2,989.352	91.391%
Antequera	2,974.630	91.924%
Mabini	2,895.981	73.192%
Trinidad	2,801.341	34.078%
Maribojoc	2,665.621	93.472%
Duero	2,539.033	79.885%

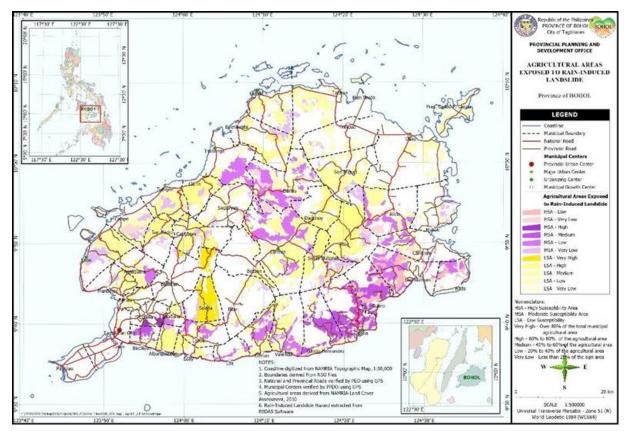


Figure 12: Agricultural Exposure Map to RIL (Source: PDPFP 2016-2028)

On one hand, the critical lifelines such as national and provincial roads along Jagna, S. Bullones, San Isidro, Garcia- Hernandez, Antequera, Sikatuna, Catigbian, Cortes, Duero, Danao, Sagbayan, Valencia, Loboc, Bilar, Dimiao, and Tubigon. Figure 12 illustrates the different road classification susceptible to RIL. An estimated total of 11.77 km or 1.62% of national road and 45.11 km or 5.22% of provincial roads are at risk to RIL (PDPFP 2016-2028; p.162). Meanwhile, the PDNA Typhoon Odette 2021 report indicated that the municipalities of San Isidro, Dagohoy, Sevilla, Duero, Inabanga, Corella, Maribojoc, Balilihan, Catigbian, Candijay, and Valencia were mostly affected.

Drought/El Niño

Definition

The projected increase in temperature will result in drought and drought-like conditions in the municipality. According to PAGASA, droughts in the Philippines are usually influenced by the El Niño Southern Oscillation or ENSO, a phenomenon associated with an increased chance of drier conditions, in contrast to the La Niña event which is associated with an increased chance of wetter conditions. It is caused by the abnormal warming of the sea surface temperature in the equatorial Pacific Ocean and is characterized by below normal rainfall. PAGASA classifies the impact of El Niño into three:

- ✓ <u>Dry conditions</u> occur when two (2) consecutive months of below normal (21%-60% reduction from average) rainfall conditions are experienced.
- ✓ <u>Dry spell</u> takes place when three (3) consecutive months of below normal (21%-60% reduction from average) rainfall conditions or two (2) consecutive months of way below normal (more than 60% reduction from average) rainfall conditions occur.

✓ <u>Drought</u> happens when three (3) consecutive months of way below normal (>60% reduction from average); or five (5) consecutive months of below normal (21%-60% reduction from average) rainfall conditions take place.

Current and Future Impact of Drought/ El Niño

The expected increase in temperature is likely to lead to frequent and longer episodes of El Niño. An El Niño-induced drought will result in insufficient water supply for irrigation, especially for rainfed farming. As a result, crops that will survive will be retarded, the harvest will be minimal, livestock may die or be emaciated, and the income of farmers will suffer. At the same time, the rising temperature also provides a conducive environment for pests (grasshoppers, locusts, aphids, etc.) to multiply and further destroy crops. With little income, families dependent on farming may face food deprivation, malnutrition, and long-term health consequences. On a larger scale, the lack of food and water may result in public health issues (e.g., water-borne and vector diseases), food security issues, and increase in the prices of agricultural products. Moreover, it could also cause forest fires, which could destroy the remaining carbon sink and wildlife habitat in the municipality.

El Niño could also cause disruption in potable water supply as well which could lead to insufficient water supply for households and establishments (restaurants, hotels). As a consequence, higher expenses on water consumption will be incurred by the households and establishments. Moreover, it could lead to hygiene and sanitation issues that could cause health problems (e.g., diarrhea, heat stroke, and hypertension). These could lead to increase in demand for health services and request for financial assistance from indigents (crisis intervention).

Elements-at-Risk to Drought/ El Niño

Drought is projected to have a high impact on the municipalities with mostly agriculture and fisheries. Water shortages may also be experienced in highly-dense populations or urbanized areas.

Geological Hazards

Outline of geological hazards in Bohol Province

Geological hazards result from geologic processes acting on or beneath the earth's surface. These include earthquake, earthquake-induced hazards (ground shaking, ground rupture, earthquake-induced landslide, liquefaction, and tsunami), and volcanic hazards.

Bohol is prone to geologic hazards like ground shaking, liquefaction, earthquake- induced landslide and tsunami because of the presence of East Bohol Fault and another fault located in the Bohol Sea going to Mindanao Sea facing the southern part of Bohol. The presence of Negros Trench and PFZ Central Leyte Fault may also contribute to the generation of earthquake. Geologic hazards result from geologic processes acting on or beneath the earth's surface. These include movement of plates in the earth's crust or from local concentration of heat and are a source of hazards to people and their natural and built- up environment on the earth's surface.

Minor and major fault lines are evident on the island as shown by terraced encampments occurring in its southern and central parts. The terraced escarpments in the Ilihan Formation as well as the graben at the Anda Peninsula are manifestations of these faults. Steep escarpments notably in Loon, Tagbilaran and in Anda Peninsula further prove vertical upliftment caused by tectonics. Earthquakes have been felt in Bohol but only an average of one perceptible shock is reported each year. PHIVOLCS reported that the M7.2 Bohol Earthquake was generated on the north-western sector of Bohol island by a NE-SW trending reverse fault (hereto named as North Bohol Fault (NBF), which had no previous surface

manifestation. The NBF is categorized as a thrust fault or a (reverse) fault wherein the blocks move upward and downward relative to each other (PDPFP 2016-2028). Figure 13 shows the active faults in the province.

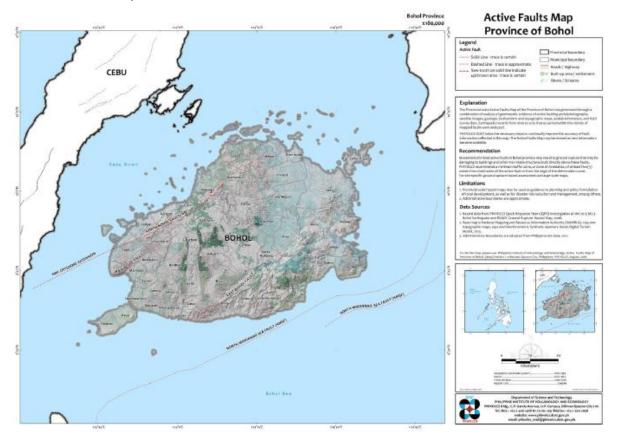


Figure 13: Active Fault Map of Bohol Province (Source: PHIVOLCS)

Ground Shaking

Definition

The immediate effect of an earthquake is ground shaking. PHIVOLCS describes ground shaking as the disruptive up, down and sideways vibration of the ground during an earthquake.

Impact of Ground Shaking

Ground shaking could lead to *damage or collapse of structure; may consequently cause hazards such as liquefaction and landslide.* Such could lead to death and injury, loss of dwellings, destruction of production areas and key facilities, and interruption of basic services. Consequently, people and establishments will lose their income; and health issues would rise due to lack of water and shelter, as well as due to mental and emotional stress.

Elements-at-Risk

The Ground Shaking Hazard Map (Figure 14) was generated under the READY Project using available hazard data from the PHIVOLCS-DOST, NSO and NAMRIA. The sources of data came from the Hazard Data generated by the Philippine Institute of Volcanology and Seismology (PHIVOLCS-DOST) in 2008, the National Statistics Office (NSO) in 2000 for the administrative boundary and the NAMRIA for the Topographic Map 1:50,000 scale (PDPFP 2016-2028). All the 47 municipalities and 1-city are highly susceptible to ground shaking with Intensity 8 and 7. A number of 950,718 or 75.74% and 258,048 or 20.55% Boholanos are highly exposed to ground shaking with intensity 8 and 7 respectively (DRVA Report 2014).

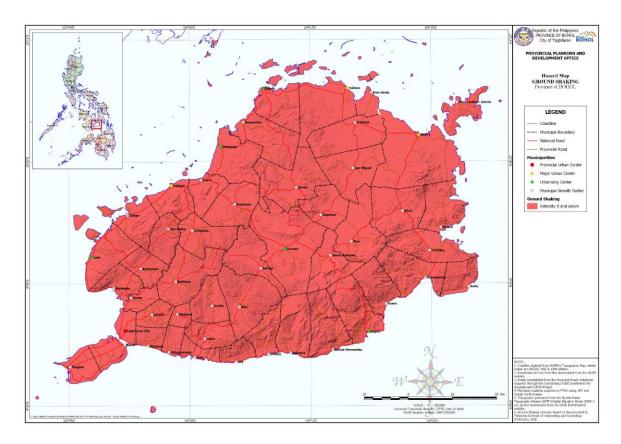


Figure 14: Ground Shaking Hazard Map of Bohol (Source: PDPFP 2016-2028)

As shown in Figure 15, the majority of the provincial agricultural lands are highly exposed to ground shaking with a total exposed agricultural area of about 168,307 hectares or 70% of the total agricultural land area is within the very high to high exposure area. At very high risk are the 36 municipalities and 1 city of the province of Bohol with its agricultural areas exposed to ground shaking. Out of those towns, the 27 municipalities and 1 city have its whole total agricultural area highly exposed to ground shaking. At risk are the municipalities of Carmen, Ubay, Pilar, San Miguel, Alicia, Guindulman, Trinidad, Sierra Bullones, Candijay, Dagohoy, Garcia Hernandez, Jagna and Valencia having more than 10,000 hectares of its agricultural area highly exposed to ground shaking (PDPFP 2016-2028).

Of the 47 municipalities and 1-city, about 7,739.84 hectares or 89.64% of the total built-up allocation in the province (8,633.98 hectares) are exposed to ground shaking with Intensity 8. Tagbilaran City has the biggest areas (1,742 hectares or 99.72%) are exposed to ground shaking and it is followed by Panglao (975.73 or 97.05%) and Dauis (939.14 or 89.97%).

In terms of critical lifelines, all roads and bridges will be affected as presented in Figure 14.

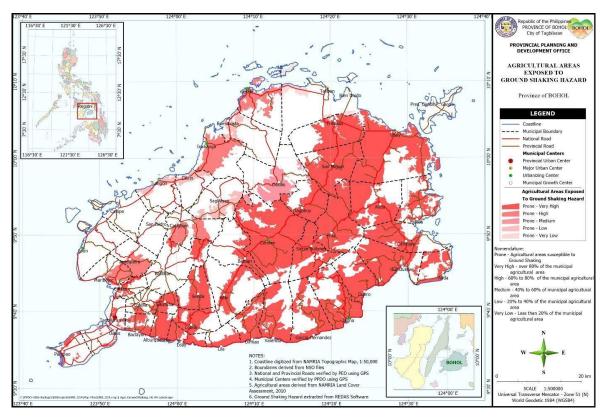


Figure 15: Agricultural Exposure Map to Ground Shaking (Source: PDPFP 2016-2028)

Projected Damage

The REDAS Team of PHIVOLCS calculated the estimated direct damage cost at over PhP1.3 Billion. The assumed hazard is Magnitude 7.2 Earthquake which occurred in Bohol in 2013. The impact results are shown in Figure 16.

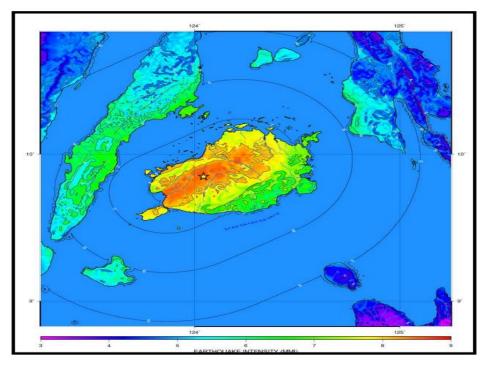


Figure 16: Modified Mercalli Intensity Scale Map of 2013 Oct. 15 7.2 Magnitude Earthquake in Bohol (Source: REDAS from DOST-PHIVOLCS)

REDAS Shake provides the calculated several types of affected people, slight injuries, non-life-threatening injuries, life threatening injuries and fatalities. From the results, the 20 most affected LGUs in terms of population injuries are shown in Table 18. This result is not only considering the distance between populated LGUs and epicenter, but also, vulnerability of housing in the LGUs and the topographical features.

Table 18: Earthquakes - Population at risk

Municipality	TOTAL EXPOSED POPULATION	TOTAL (Percentage)
Tagbilaran City	2,995	2.853%
Dauis	778	1.482%
Carmen	743	1.510%
Tubigon	742	1.550%
Talibon	737	1.034%
Catigbian	700	2.941%
Inabanga	693	1.428%
Ubay	607	0.742%
Loon	564	1.275%
Sagbayan	544	2.235%
Trinidad	543	1.546%
Cortes	530	2.889%
Balilihan	520	2.782%
Calape	510	1.542%
Panglao	498	1.250%
Maribojoc	495	2.232%
San Miguel	484	1.909%
Danao	438	2.163%
Antequera	436	2.909%
Dagohoy	428	2.154%

Ground Rupture

Definition and Impacts of Ground Rupture

Earthquakes could also result in ground rupture, which is the *deformation on the ground that marks the intersection of the fault with the earth's surface*. When ground rupture takes place, fissuring, displacement of the ground due to movement of the fault happens.

Liquefaction

Definition and Impacts of Liquefaction

Liquefaction is the phenomenon wherein sediments, especially near bodies of water, behave like liquid similar to a quicksand. Such could lead to sinking and/ or tilting of structure above it; sand boils; and fissures.

Elements-at-Risk to Liquefaction

Figure 17 and Table 19 show that all coastal municipalities and 1 city, including island barangays of Bohol are highly susceptible to liquefaction. Ubay, Bien Unido, Panglao and Pres. Carlos P. Garcia is observed to be highly affected by liquefaction based on data and discussions. The moderately susceptible areas are some barangays located in the different

municipalities of Ubay, Trinidad, San Miguel, Talibon, Candijay, Duero, Jetafe, Buena Vista, Tubigon, Calape, Panglao, Dauis and Cortes. The coastal municipalities located in the southeastern, northeastern and northwestern portions of Bohol have more areas exposed to the liquefaction hazard compared to those situated in southern Bohol. Municipalities with low exceedance liquefaction are portions of Ubay, Alizia, Pilar, Dagohoy, Carment, Batuan and Bilar. The worst scenario is when there is high excess liquefaction which would affect the Central Business District (CBD) and urban barangays of coastal municipalities (PDPFP, 2016-2028).

Table 19: Liquefaction – Population at risk

Municipality	TOTAL	TOTAL
	EXPOSED POPULATION	(Percentage)
Ubay	47,928	58.592%
Bien Unido	24,983	93.688%
Tagbilaran City	24,671	23.501%
Panglao	21,469	53.889%
Talibon	21,002	29.467%
Pres. Carlos P. Garcia	18,458	78.128%
Tubigon	14,390	30.052%
Calape	14,122	42.692%
Inabanga	13,917	28.675%
Trinidad	12,086	34.415%
Candijay	10,772	35.765%
Dauis	9,404	17.915%
Pilar	8,969	31.259%
Getafe	8,891	26.603%
Loon	8,373	18.932%
Mabini	7,430	25.888%
Dagohoy	5,911	29.744%
Loay	5,707	31.964%
Guindulman	4,659	13.660%
Buenavista	4,647	15.640%

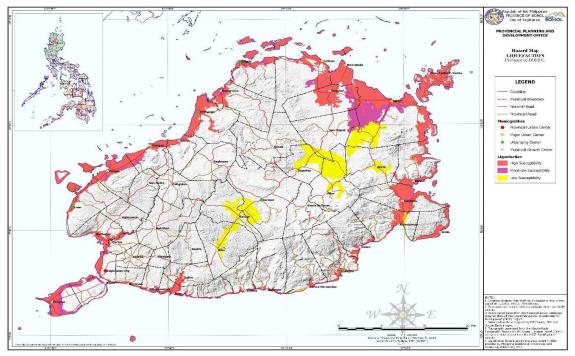


Figure 17: Liquefaction Hazard Map of Bohol Province (Source: PPDO Bohol)

The agricultural areas at risk to liquefaction are along coastal municipalities as well. Based on the available data, the municipalities of Ubay, Pres. C.P. Garcia, Bien-Unido and Panglao have 95.67%, 86.67%, 70.32%, and 59.64% of its agricultural area exposed to liquefaction respectively, as shown in Table 20. In terms of road exposure to liquefaction, all coastal municipalities are susceptible.

Table 20: Liquefaction – Agriculture at risk

Municipality	TOTAL EXPOSED AREA (Ha)	TOTAL (Percentage)
Ubay	11,574.979	70.321%
Pilar	3,717.980	36.972%
Trinidad	3,427.498	41.695%
Talibon	2,987.651	37.696%
Pres. Carlos P. Garcia	2,497.300	86.670%
Bien Unido	2,310.440	95.674%
Dagohoy	2,015.520	40.808%
Candijay	1,978.209	40.206%
Calape	1,960.927	36.252%
San Miguel	1,822.588	18.142%
Carmen	1,636.232	9.786%
Alicia	1,471.272	19.982%
Tubigon	1,365.555	25.408%
Inabanga	1,319.197	17.561%
Getafe	1,258.587	26.185%
Mabini	1,203.703	30.422%
Guindulman	1,119.960	20.261%
Bilar	1,075.322	32.339%
Batuan	1,015.655	31.051%
Buenavista	824.991	13.942%
Anda	766.647	33.562%
Loon	749.253	13.285%
Panglao	498.546	59.646%

Earthquake-Induced Landslide

Definition and Impacts of Earthquake-Induced Landslide

Earthquake-induced landslides are described by PHIVOLCS as the *down slope movement of rocks, solid, and other debris commonly triggered by strong shaking.* It causes erosion, as well as burial and blockage of roads and rivers. Similar to rain-induced landslides (RIL), an earthquake-induced landslide could destroy houses and cause injury or death to residents living near a slope. It could likewise damage vegetative cover and croplands, as well as access roads to agri-tourism, commercial, residential, and other key built-up areas.

Elements-at-Risk to Earthquakes Induced Landslide

Table 21 shows the municipalities with high susceptibility to earth-induced landslides. However, the municipalities of Lila, Dimiao, Valencia, Loboc (man-forest), Bilar (east-side), Garcia-Hernandez, Sierra Bullones, Duero, Jagna, Sevilla, Loay, and Candijay are observed to be with the highest susceptibility based on data and experience.

Table 21: Earthquake Induced Landslide – Population at risk

Municipality	TOTAL	TOTAL
	EXPOSED POPULATION	(Percentage)
Lila	7,805	63.767%
Dimiao	7,857	52.772%
Valencia	14,485	51.017%
Loboc	8,726	50.099%
Bilar	8,707	47.035%
Garcia-Hernandez	10,183	41.680%
Sierra Bullones	10,403	39.866%
Duero	6,501	34.466%
Batuan	4,427	31.975%
Guindulman	10,182	29.856%
Jagna	10,628	29.661%
Sevilla	3,112	27.357%
Loay	4,693	26.282%
Pilar	6,003	20.921%
Sikatuna	1,416	20.498%
Alicia	4,754	19.506%
Balilihan	3,634	19.441%
Candijay	5,615	18.644%

The agricultural areas of except the fisheries are at risk to EIL in Dimiao, Loboc, Valencia, Sierra Bullones, Garcia-Hernandez, Guindulman, Jagna, Pilar, Alicia and Carmen, as shown in Table 22. In relation to this, the top municipalities such as Dimiao, Lila, and Loboc have an estimated 47%, 43%, and 37% of agricultural land areas that are susceptible to EIL respectively. Furthermore, the agricultural areas of Loon, Calape, Tubigon, Indangan, Clarin, Buenavista, Valencia, Pilar, Bilar, Guindulman, Candijay, S. Bullones, Carmen are at risk to EIL.

Table 22: Earthquake Induced Landslide – Agriculture at risk

Municipality	TOTAL EXPOSED AREA (Ha)	TOTAL (Percentage)
Dimiao	1,732.567	47.302%
Lila	594.905	43.527%
Loboc	1,129.150	37.683%
Valencia	2,037.347	37.119%
Sierra Bullones	2,053.765	31.002%
Loay	554.487	27.474%
Garcia-Hernandez	1,349.514	27.442%
Guindulman	1,415.859	25.615%
Duero	646.969	20.355%
Jagna	1,123.290	19.807%
Sevilla	668.583	17.605%
Batuan	535.229	16.363%
Bilar	479.319	14.415%
Pilar	1,418.655	14.107%
Alburquerque	235.714	12.845%

Municipality	TOTAL EXPOSED AREA (Ha)	TOTAL (Percentage)
Candijay	586.215	11.915%
Alicia	857.679	11.648%
Carmen	1,831.516	10.954%
San Isidro	369.801	10.912%
Danao	704.038	10.863%

The Figure 18 shows the exposed roads to EIL by classification. The exposed critical roads are located in the municipalities of Loon, Calape, Tubigon, Indangan, Clarin, Buenavista, Lila, Valencia, G. Hernandez, Duero, Pilar, Bilar, Guindulman, Candijay, S. Bullones, Jagna, Carmen, Sagbangan, and Dumiao are considered more susceptible to EIL.

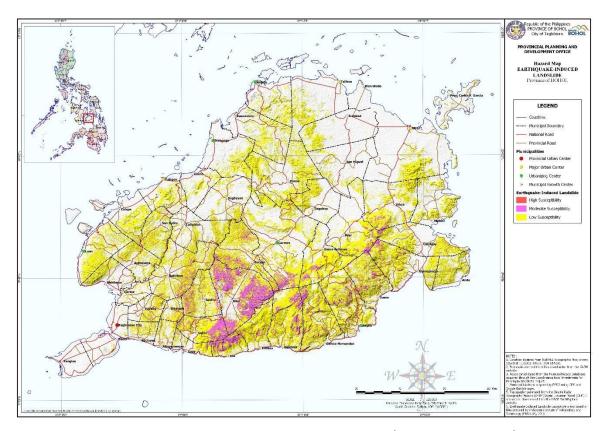


Figure 18: Earthquake-Induced Landslide Hazard Map (Source: PPDO Bohol)

Tsunami

Definition and Impact of Tsunami

Tsunami refers to the *series of waves caused commonly by an earthquake under the sea*. It causes flooding, coastal erosion, drowning of people, and damage to properties.

Figure 19 reveals that all coastal municipalities are highly susceptible to tsunami. The Tsunami Hazard Map was generated using available tsunami programs, earthquake and tectonic data, and topographic and bathymetric maps. Limitation of the Map (PDPFP 2016-2028):

- 1. The extent of tsunami inundation is based on current physical conditions of the study area.
- 2. The map does not reflect the hazard that could be generated by a far-field tsunami.

- 3. Earthquake-induced submarine landslides that could also generate tsunami are not covered by this map.
- 4. Significant erosion or deposition along the shore in the future could affect the level of tsunami hazard and may need hazard reassessment.

Elements-at-Risk

The population, agriculture, including fisheries at risk to tsunami are located in Coastal 30 LGUs, as shown in Table 23 and 24. All roads along the coastline are high-susceptible. Inundation of rivers, caused by pressure from tsunami may affect the municipalities of Inabangga, Pres, G. Hernandez, Candijay, Loay, Loon, Anda, Maribojoc, Cortes, Duero and Loboc, hence they are considered as priority LGUs.

Table 23: Tsunami – Population at risk

Municipality	TOTAL EXPOSED POPULATION	TOTAL
Talibon	11,643	(Percentage) 16.336%
Ubay	10,717	13.102%
Bien Unido	10,717	38.719%
Inabanga	8,699	17.924%
Pres. Carlos P. Garcia	8,410	35.598%
Calape	6,567	19.852%
Getafe	6,484	19.401%
	,	
Candijay	5,156	17.119%
Panglao	4,419	11.093%
Tubigon	4,261	8.898%
Mabini	3,688	12.848%
Tagbilaran City	3,078	2.932%
Loay	2,826	15.828%
Loon	2,706	6.118%
Anda	2,251	12.664%
Buenavista	1,863	6.270%
Maribojoc	1,731	7.805%
Dauis	1,472	2.803%
Guindulman	1,460	4.281%
Cortes	1,344	7.326%
Baclayon	1,324	5.893%
Trinidad	856	2.438%
Jagna	701	1.955%
Clarin	509	2.404%
Alburquerque	455	4.044%
Duero	372	1.974%
Garcia-Hernandez	322	1.318%
Valencia	258	0.909%
Dimiao	235	1.579%
Loboc	180	1.031%
Lila	160	1.308%

Table 24: Tsunami – Agriculture at risk

Municipality	TOTAL	TOTAL
Ubay	EXPOSED AREA (Ha) 1,861.033	(Percentage) 11.306%
	·	
Talibon	1,340.283	16.911%
Pres. Carlos P. Garcia	830.200	28.813%
Bien Unido	803.453	33.270%
Getafe	703.826	14.643%
Candijay	488.074	9.920%
Inabanga	447.201	5.953%
Calape	416.869	7.707%
Anda	374.660	16.402%
Mabini	347.896	8.793%
Guindulman	318.755	5.767%
Tubigon	247.774	4.610%
Panglao	177.924	21.287%
Trinidad	168.626	2.051%
Buenavista	154.282	2.607%
Loon	150.224	2.664%
Jagna	85.297	1.504%
Duero	75.910	2.388%
Baclayon	59.714	5.214%
Garcia-Hernandez	49.045	0.997%
Loay	48.361	2.396%
Maribojoc	47.603	1.669%
Dimiao	46.604	1.272%
Alburquerque	34.594	1.885%
Loboc	24.493	0.817%
Valencia	24.039	0.438%
Lila	11.497	0.841%
Clarin	6.654	0.141%
Dauis	5.142	0.444%
Cortes	4.028	0.456%
Tagbilaran City	0.305	0.064%

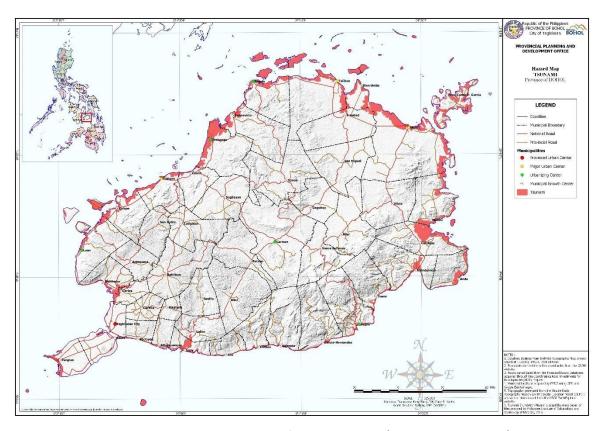


Figure 19: Tsunami Hazard Map of Bohol Province (Source: PPDO Bohol)

Health Pandemic

The spread of CoronaVirus Diseases 2019 (Covid-19) in early 2020 heightened the awareness of Tubigon and many other LGUs of the importance of installing DRRM measures to prevent, prepare for, respond to, and recover from the impact of a pandemic. At the same time, there is a need to install and/or integrate health pandemic preventive measures in the existing and future DRRM mechanisms. In Evacuation Camp Management for instance, systems have to be re-adjusted to accommodate the need for social distancing and other public health protocols.

3. Situational Analysis

Future Changes and Development

The spatial development map summarizes the major projects of the province of Bohol across all sectors Important infrastructure projects, especially those that require financial resources, can be undertaken through public-private-partnership arrangements, allowing the private sector to directly participate in the provision of facilities and services to the public, while recouping their investments in appropriate time. This strategy would allow the government to use its limited resources to other equally important socio-economic programs and projects (PDPFP, 2016-2028).

Consistent with its overarching development framework, Bohol shall move towards these development aspirations by adhering to the principles of sustainable development, giving premium to the protection and preservation of its natural environment, managing capacities of not just institutions, but more importantly its people and the environment (PDPFP, 2016-2028).

Meanwhile, Bohol province is expected to increase its development in the municipalities of Panglao, Tubigon, Ubay and Talibon due to increasing urbanization and economic activity. The direction of agro-tourism is also on the rise in the province. With the expected development, there should be DRRM measures in place to protect the future assets and development of the province.



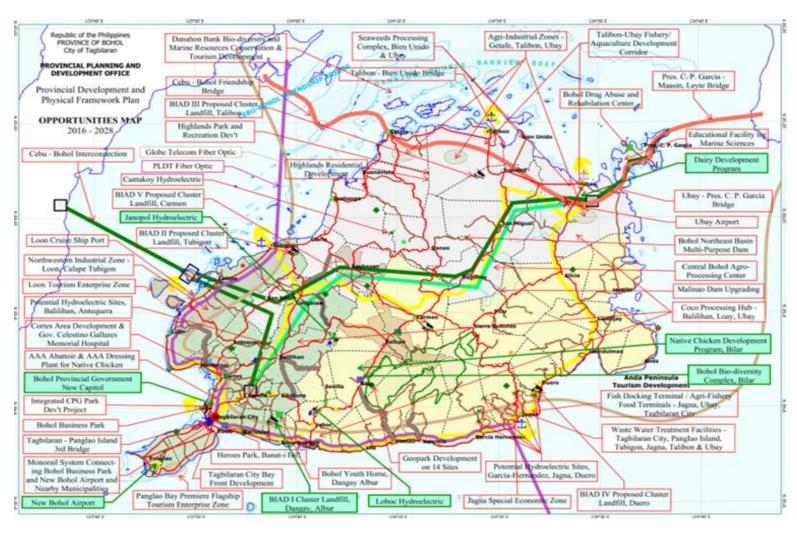


Figure 20: Projected Changes and Development in Bohol Province

Vulnerabilities and Capacities

This section discusses the vulnerabilities and capacities of Bohol province that affect the management and reduction of risks in the municipality. These are based on the results of the assessment of Bohol Province' contributions to the outcomes found in the National Disaster Risk Reduction and Management Plan (NDRRMP); review of Bohol's current plans; and situational analysis through the identification of the municipality's strengths, weaknesses, opportunities, and challenges (SWOC).

Republic Act 10121 refers to vulnerability as the characteristics and circumstances of a community, system or asset that make it susceptible to the damaging effects of a hazard. Vulnerability may arise from various physical, social, economic, and environmental factors such as poor design and construction of buildings, inadequate protection of assets, lack of public information and awareness, limited official recognition of risks and preparedness measures, and disregard for wise environmental management.

On the other hand, capacity is defined as a combination of all strengths and resources available within a community, society or organization that can reduce the level of risk, or effects of a disaster. Capacity may include infrastructure and physical means, institutions, societal coping abilities, as well as human knowledge, skills and collective attributes such as social relationships, leadership and management. Capacity may also be described as capability.

Please refer to Form-1A for Bohol's assessment of its contribution to the NDRRMP target outcome; Form-1B for the province's assessment of its current plans; and Form-1D for its detailed SWOC Analysis.

The vulnerabilities and capacities are classified according to the four thematic areas under RA 10121:

Disaster Prevention and Mitigation refers to structural or non-structural measures meant to avoid (prevention) or limit/minimize (mitigation) the adverse effects of hazards.

Disaster Preparedness is the knowledge and capacities developed by governments, professional response and recovery organizations, communities and individuals to effectively anticipate, respond to, and recover from, the impacts of likely, imminent, or current hazard events or conditions.

Disaster Response and Early Recovery is the provision of emergency services and public assistance during or immediately after a disaster in order to save lives, reduce health impacts, ensure public safety, and meet the basic subsistence needs of people affected.

Disaster Rehabilitation and Recovery refers to measures taken after a disaster to restore or improve the pre-disaster living conditions of a stricken community, while encouraging and facilitating necessary adjustments to reduce disaster risk.

Vulnerabilities

Across All Thematic Areas

Weak Implementation of DRRM Related Laws

- o Implementation of zoning policies (particularly the "NO BUILD ZONE) is not strictly followed as such there are still many families living along the riverbanks/waterways
- o Weak enforcement of road easement by the MLGUs
- Encroachment of building structures within the shorelines and riverbanks -
- Weak implementation of existing ordinances and laws e.g., Water Code of the Philippines (40m for timberland, 20m for agriculture, 3m for urban areas; 20m for salvage zones in coastal areas) National Building and among others

Planning and Policy Development and Implementation

 DRR and CCA are not yet fully integrated into local development plans and policies, as well as environmental plans, policies, and programs

Information Technology

- o Occurrence of Internet connectivity failures due to Service Provider faults
- Very few workstations have power backup systems, and if any, are way past their serviceable life and failing

Housing Settlements and Social Protection

- Some municipalities have no shelter plans for families that will be relocated from the high-risk areas
- o Increasing urban population also demands high protection level
- Continued growth of informal households and settlements: more settlements are seen occupying danger areas such as along riverbanks, creeks, road-right-of-way, shorelines, and waterways.
- High cost of land in urban and urbanizing areas: insufficient basic infrastructures, inappropriate urban planning, and the appearance/in-flux of slum-like settlements especially along its coastal and river systems and in some parts of Bohol's protected areas

Impact of COVID-19

 The pandemic has left many challenges in terms of the implementation of DRRM measures. Capacity building for communities were temporarily stopped. Evacuation management has to consider pandemic protocols to prevent spread of COVID-19.

Prevention and Mitigation

Limitations in Local Risk Assessment and Early Warning Systems

- Need to capacitate the staff (Provincial/City/Municipal) in the updating of hazard maps and database management (vulnerability and exposure) including age-gender disaggregation of the population at risk.
- Technical Capacity of MDRRM Staff needs further enhancement/improvement (ex. REDAS, GIS)
- Lack of capacity to assess natural hazards in terms of frequency, intensity, and impact and analyze risk
- No scientific tools and technology in monitoring and projecting the impact of hazards
- o Unavailability of technical experts for the conduct of vulnerability assessment

Limitations in Infrastructure and Preventing Future Risks and Adapting to Climate Change

- Poor siting and design cause failure in the construction of critical and lifeline facilities (power and water distribution lines)
- Some roads in the province are exposed to different hazards like the ground shaking, liquefaction, rain, and earthquake-induced landslide and tsunami
- o Retrofitting of buildings and other structures is not properly practiced and implemented
- Absence of drainage and sewerage system

Low Food Security

- Low agriculture and fishery productivity
- Depletion of soil fertility due to excessive inorganic farming practices
- o Decreased area for agricultural use due to exposure to hazards

Enforcement of Environmental Policies

 Presence of a mining area near the watershed area that may cause potential risks in river basins, upland communities, and low-lying areas

High Exposure of Cultural Heritage

O Bohol is known for cultural heritage such as historical churches and sites. Some of the structures were badly affected by the 2013 Bohol Earthquake. Moreover, high exposure to climate-related hazards may affect the structural conditions of these heritages.

Preparedness

Challenge in Paradigm Shift

o Lack of family preparedness knowledge

Response and Early Recovery

Emergency Response

- o Medical and veterinary personnel during disaster response are not enough
- o Delayed procurement of supplies, medical equipment, and medicines
- Lack of capacity to respond to subsequent disasters

Rehabilitation and Recovery

Housing and Settlements

- Limited funding for housing programs
- Need to come up with comprehensive housing projects for displaced families

Limited Infrastructure Support

Limited support to rehabilitate the degraded ecosystems

Capacities

Across All Thematic Areas

Organizational

- o Active participation PDRRMC members chaired by the Governor
- Very supportive Local Chief Executive and Legislative Members in providing a regular budget for the PDRRMO operation

Additional Source of Funds

- o Implementation of Mandanas-Garcia Law
- Convergence from NGAs (DPWH, DSWD, DOST, DOT, DILG, etc.) for technical and financial support

Prevention and Mitigation

Risk Assessment and Data Management

- Availability/Updated hazard maps with a database on vulnerability, exposure, and capacity
- MGB conducted an assessment of the areas heavily affected during the 7.2 M earthquake using GPR and findings and recommendations were turnover to the Provincial Government

Early Warning Technology/Equipment

- Functional and presence of Early Warning Systems (EWS) (e.g., development of Early Warning System for Landslides (DYNASLOPE of DOST)
- o Flood forecasting located in Loboc and Inabangga Rivers TOCONET Korea
- o Existing Automated Rain Gauges (ARG) in Bilar, Dauis, Mabini, Talibon, and Balilihan
- Partnered with A2D (Alternative to Development) to install 15 ARGs in Inabangga, Candijay, Loboc, G. Hernandez, Anda, Albur, Cortes, Tubigon, Batuan, Ubay, Antequera, Sevilla, Loon, San Miguel, Pilar) and 4 automated weather stations in Tagbilaran, Carmen, Talibon, Pres. CP Garcia
- Crustal Deformation Survey (GPS Survey) yearly to detect direction of the ground and displacement to 5 Benchmark sites: Ubay, Alicia, Lila, Tagbilaran (continues 24/7; allyear round), Inabanga
- o Operational DOPPLER in Alburquerque
- o Existing Unmanned Seismic Station G. Hernandez and Talibon
- Existing and functional Strong Motion Sensor Clarin, Loboc, and Jagna
- Existing and functional Automatic Intensity Meter Talibon and Tagbilaran

Presence of Infrastructure Projects and Policies across Bohol Province

- o On-going construction of dikes, seawalls, and among others
- o Flood diversion channels
- Development of small water impounding affordable to the LGU (e.g., covering 2-3 hectares); especially on the rice lands
- Convergence projects; DA-WB-PGBH PRDP projects (roads, bridges, water desalination, livelihood/enterprise, seaweeds production and facilities, marine protection, slaughterhouse, Bohol dairy, virgin coconut oil facility); CMGP KALSADA; DAR-DPWH bridge projects; Bohol Earthquake Assistance (BEA) projects; Provincial Roads and Tourism Highway Development
- Completed School Buildings implemented by the Provincial Government, DepEd, and the DPWH
- Establish road embankment protection
- Existing Water Desalination Plants in Pamilacan Island in Baclayon, Pandanon Island in Getafe, Cuaming Island in Inabangga, Cabilao Island in Loon
- Private operated sewerage plant in Dauis
- o Imposition of hazard-resistant building design regulation for areas prone to hazard
- Compliance with the standard design with hazard resistance, specification, and other requirements for roads, bridges, buildings, and ports
- Upgrading transport systems and facilities with hazard-resistant design

Environmental Protection/Management

- River bank stabilization through greenbelts or planting of ornamental plants and deeprooted trees
- o Implementation of Reforestation program, Mangrove Tree Planting
- Local monitoring of groundwater extraction
- Municipalities adopting it (cisterns, roofing, solar-powered buildings)

Livelihood and Business Protection

- Implementation of Small and medium-scale enterprises including capitalization to start up the business
- o Regular monitoring of the business enterprise and facilities to ensure the safety
- Bohol Economic Development and Investment Code in the New Normal

Protection of Cultural Heritage

- Bohol Arts and Culture Heritage (BACH) Code
- o BACH Council (Provincial Ordinance No. 2001-017)
- Center For Culture and Arts Development (CCAD) Office within the Provincial Government of Bohol (Provincial Ordinance No. 2000-031

Implementation of Social Protection

- Most of the LGUs have identified relocation/resettlement sites in the approved CLUP
- Safe relocation and resettlement for populations living in high-risk areas

Food Security

- Financial services and micro-insurance for farmers, fishers, livestock producers
- Urban agriculture and natural farming system (backyard farming, Use of natural farming methods, promotion of organic farming practices)
- o Bohol Organic Agriculture Technology Center

Preparedness

Continuous Capacity Development

- Conduct drills, and training on disaster preparedness
- o Some of the barangays had provided orientation and training to BDRRMCs
- Well-trained PDDRMO personnel with high-tech equipment and facilities with international standards
- o Capable to conduct training in the use of QGIS software
- Visayan/Boholano version of DRR-CCA Training modules

Information Technology

- o PPDO Website established for general information and data sharing
- Has geographic Information System
- Personnel trained and able to operate basic GIS
- o Free Open-Source Software (QGIS) is available and installed in every PPDO computer

Operations

- Upgrading of evacuations centers with complete sanitation/hygiene facilities, standby power, water, and food packs
- o Regular maintenance of rescue facilities and equipment
- Very efficient and effective TARSIER 117 with sub-office to other municipalities
- o Presence of PDRRMO inter-cluster coordination
- Readily available frontliners/responders services (Health, PDRRMO, DSWD, OPSWD, PNP, BFP, etc.)

DRRM in Education

 Disaster Risk Reduction Management is mainstreamed in the public school's curriculum

Response and Early Recovery

Logistics

- Presence of Irrigation Projects (NIS, SRIP, CIS)
- Water Development Program
- Port Development
- Water harvesting tanks

Emergency Response

- o Organized and trained responder teams (medical, rescue and evacuation, and relief)
- o Provision of incentives for volunteers and responders
- o Availability of LDRRMC Standard Operating Procedures on disaster response

Rehabilitation and Recovery

Livelihood and Business Development

- Skill training for alternative sources of livelihood
- o Access to financial services and micro-insurance for MSMEs to affected families

Rehabilitation and Recovery Plan

- o Support from NGAs to expedite rehabilitation and recovery programs
- Approved Bohol Earthquake Assistance (BEA) Plan with funding from the national agencies

Chapter 2: DRRM Roadmap and Strategies

Bohol's Vision and Mission

Vision

Bohol is a prime eco-cultural tourism destination and a strong, balanced agri-industrial province, with a well-educated, God-loving and law-abiding citizenry, proud of their cultural heritage, enjoying a state of well-being and committed to sound environmental management.

Mission

To enrich Bohol's social, economic, cultural, political, and environmental resources through good governance and effective partnerships with stakeholders for increased global competitiveness.

Strategic Governance Roadmap

The Bohol Local DRRM Plan is aligned to Bohol's Vision and Mission which can be achieved through the following strategies identified by the Members of the Executive Management Board and the Sangguniang Panlalawigan in a Strategic Planning Workshop conducted last July 2022.

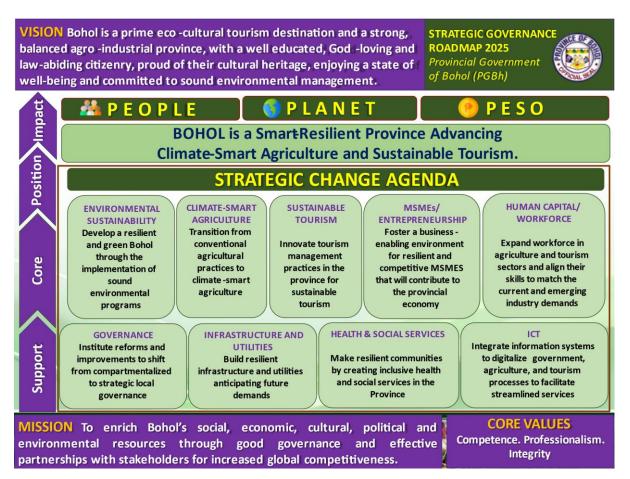


Figure 21: Bohol's Vision, Mission and Strategic Change Agenda

The DRRM endeavors of Bohol Province are guided by its vision of:

Vision

A disaster-resilient, climate change adaptive and safe Boholano community with a strong spirit of stakeholder commitment guided by effective local governance ensuring social protection, economic security and socially-inclusive disaster management towards sustainable development.

Goals and Outcomes³

All the DRRM programs, projects, activities (PPAs) and policies of Bohol Province are intended to contribute to the realization of the following goals and outcomes.

The detailed Bohol Province' Assessment of its contribution to the NDRRMP Target Outcomes are shown in the Form-1A and was used to conduct the situational analysis, especially the SWOC analysis.

Table 25: National DRRM Goals and Outcomes							
Goal	Outcomes						
Prevention and Mitigation							
Address current and reduce future risks of communities and government through mainstreaming integrated risk management into science, policy and practice.	updated risk information and research; 2. Implemented risk-centered national, sub-national, and sectoral policies, plans, and budgets; 3. Increased structural integrity of housing, building, and critical infrastructure; 4. Institutionalized timely, responsive, context- and culture-specific early warning systems reaching the last mile; 5. Communities have access to effective, responsive and inclusive social protection, risk financing and insurance mechanisms; 6. Natural resources and ecosystem integrity are improved and sustained; 7. Disaster-resilient livelihoods and businesses;						
Preparedness	8. Disaster-resilient human settlements.						
Establish and strengthen capacities of governments, communities, CSOs, and private sector to anticipate, cope, and recover from the adverse impacts of hazards and potential cascading disasters, and minimize losses and disruption of daily life.	 Enhanced risk awareness and risk-informed decisions and actions of governments and communities; Increased institutional capacities of National and Local DRRM Councils and Offices; Strengthened partnership and coordination among all key actors and stakeholders; Implemented comprehensive and mutually-reinforcing national and local preparedness and response plans, policies, and systems. 						
Response and Early Recovery							
Provide risk-based, timely and anticipatory response actions to address basic, life preservation and immediate needs of communities and government.	 13. Well-established disaster response operations with well-equipped workforce and volunteers; 14. Accurate, reliable and timely information management; 						
Also, affected communities/populations are able to continue life with dignity and	15. Appropriate early actions are provided to communities;						

³ Goals and outcomes indicated in the 2021 to 2030 National Disaster Risk Reduction and Management Plan (NDRRMP)

Goal	Outcomes
prevent or minimize exacerbation of emergency situations.	16. Affected communities are provided with gender and conflict-sensitive basic necessities and services;17. Implemented an integrated system for early recovery.
Recovery and Rehabilitation	
Speed up recovery from disaster losses through rehabilitation and recovery programs that are aligned to sustainable development and "build back better" principle	 Clear policy directions for rehabilitation and recovery; Sustainable and socially inclusive income sources for households are made available and stability of economic activities restored; Agricultural production is restored or increased and support services for farmers, fisher folks, and laborers are made accessible; Affected families or individuals have access to: (a) affordable disaster-resilient housing that are located in safe zones where social services and public facilities are available; or, (b) financial assistance to rebuild houses in areas that are declared safe zones; Affected individuals, families, and communities have access to responsive, appropriate and adequate education, health, and social protection services; Disaster resilient standards in infrastructure are observed during rehabilitation and recovery.

DRRM Targets: 2023 to 2031 of Bohol Province LDRRM Plan

To reduce and manage the disaster risks discussed in the disaster risk profile, as well as to contribute to the foregoing goals and achieve the corresponding outcomes, Bohol Province will seek to achieve the foregoing targets in the next nine years:



Table 26: Flooding, Typhoon, and Severe Wind

Elements-at-		Exposure Analysis	DRRM Targets			
Risk	Sub-category	Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)
Population		77,894 (32% of total exposed population) Short-Term 29,219 (12%) Medium-Term 32,463 (13%) Long-Term 16,167 (7%)	Reduction of Affected population	Loboc, Candijay, Inabanga, Antequera, Garcia- Hernandez, Lila, Cortes, Sierra Bullones, Loay, Alburquerque	Guindulman, Duero, Jagna, Loboc, Balilihan, Catigbian, Batuan, San Isidro, Sikatuna, Calape, Sierra Bullones, Loay, Alburquerque, Inabanga	Loboc, Inabanga, Sierra Bullones, Loay
	With Island Barangays	102,039 (42% of total exposed population)	_	Getafe, Talibon, Bien Unido, Pres. CPG, Loon, Ubay, Tubigon, Baclayon	Getafe, Talibon, Bien Unido, Pres. CPG, Loon, Ubay, Tubigon, Baclayon	Getafe, Talibon, Bien Unido, Pres. CPG, Loon, Ubay, Tubigon, Baclayon
Agriculture	Agricultural areas	11,500 (22% of total exposed agriculture area)	Reduction of affected agricultural areas	Candijay (AF), Alicia, Guindulman (AF), Pilar, Batuan, Bilar, Carmen, Balilihan, Catigbian, Garcia- Hernandez, Jagna, Sierra Bullones, Danao		
	Nipa Plantation	All plantations in 5 LGUs	Reduction of affected Nipa Plantation	Cortes (nipa), Maribojoc (nipa), Loboc, Inabanga, Loay		
	Fisheries	All fisheries in 30 LGUs	Reduction of affected fisheries	Mabini, Sevilla, Buenavista, Ubay, Bein Unido, Calape, Clarin, Talibon, Pres. CPG, Tubigon, Lila, Loon, Inabanga	All 30 coastal LGUs	
Livestock	Livestock and Poultry	All livestock and poultry in 12 LGUs	Reduction of affected Livestock and Poultry	Mabini, Guindulman, Candijay, Alicia, S. Bullones, Loboc, Sikatuna, Pilar, Ubay, Calape, Loon, Cortes		



Elements-at-		Exposure Analysis	DRRM Targets			
Risk	Sub-category	Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)
Infrastructure and Utilities	Roads and Bridges	All roads, bridges, and other utilities located in flood-prone areas	Reduction of affected Roads and Bridges	1st District Abatan Bridge in Cortes, Camayaan Bridge in Cortes 2nd District Inabanga, Buenavista, Clarin, Malitbog in Dagohoy 3rd District Candijay, Guindulman, Duero, Garcia-Hernandez, Lila, Bilar, Carmen, Batuan, Valencia, Alicia, Loay, Loboc (Agape Bridge and Roads)	1st District Abatan Bridge in Cortes, Camayaan Bridge in Cortes, Loboc (Agape Bridge and Roads) 2nd District Inabanga, Buenavista, Clarin, Malitbog in Dagohoy 3rd District Candijay, Guindulman, Duero, Garcia-Hernandez, Lila, Bilar, Carmen, Batuan, Valencia, Alicia, Loay	1st District Abatan Bridge in Cortes, Camayaan Bridge in Cortes, Loboc (Agape Bridge and Roads) 2nd District Inabanga, Buenavista, Clarin, Malitbog in Dagohoy 3rd District Candijay, Guindulman, Duero, Garcia-Hernandez, Lila, Bilar, Carmen, Batuan, Valencia, Alicia, Loay
	Seawall	All seawall located in coastal areas	Reduction of affected Roads and Bridges	1st District Baclayon (for repair) 3rd District Guindulman, Duero, Jagna, Garcia Hernandez, Valencia, Dimiao, Lila (ongoing), Loay	3rd District Guindulman, Duero, Jagna, Garcia Hernandez,Valencia, Dimiao, Lila (ongoing), Loay	
Built-up Areas		914.482 ha (34% of total exposed area)	Reduction of affected built-up areas	Tagbilaran City; Urbanized Municipalities: Tubigon, Talibon, Ubay, Panglao, Dauis, Jagna, Loon	Tagbilaran City; Urbanized Municipalities: Tubigon, Talibon, Ubay, Panglao, Dauis, Jagna, Loon	Tagbilaran City; Urbanized Municipalities: Tubigon, Talibon, Ubay, Panglao, Dauis, Jagna, Loon
Environmental areas	16 Protected Areas: (Rajah Sikatuna Protected Landscape;	3 LGUs that comprise the Rajah Sikatuna Protected Landscape	Reduction of affected key environmental areas	Municipalities that are part of the Rajah Sikatuna Protected Landscape (Sierra Bullones, Bilar, Batuan)		
	Talibon Group of Islands Protected Landscape and Seascape	7 LGUs under this protected landscape		Getafe, Bien Unido, Talibon, Ubay, CPG, Tubigon, Loon	Getafe, Bien Unido, Talibon, Ubay, CPG, Tubigon, Loon	Getafe, Bien Unido, Talibon, Ubay, CPG, Tubigon, Loon



Elements-at-		Exposure Analysis	DRRM Targets			
Risk	Sub-category	Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)
	Chocolate Hills Natural Monument	4 LGUs that are part of the natural monument		Carmen, Sagbayan, Batuan, Bilar	Carmen, Sagbayan, Batuan, Bilar	Carmen, Sagbayan, Batuan, Bilar
	Alburquerque-Loay- Loboc Protected Landscape / Seascape	3 LGUs comprising the protected landscape/seascape		Alburquerque, Loay, Loboc	Alburquerque, Loay, Loboc	
	Panglao Island Protected Seascape	2 LGUs that are part of the Panglao Island Protected seascape		Panglao, Dauis	Panglao, Dauis	
	Loboc Watershed Forest Reserve	2 LGUs comprising the Loboc Watershed Forest Reserve		Loboc, Bilar	Loboc, Bilar	
	Alejawan- Cansuhay- Anibongan River Watershed Forest Reserve	2 LGUs comprising the watershed forest reserve		Jagna, Duero	Jagna, Duero	Jagna, Duero
	Tubigon Group of Islands Mangrove Swamp Forest Reserve / Wilderness Area	70% of the total area of mangrove swamp forest reserve/wilderness area		Tubigon	Tubigon	
	Clarin Group of Islands Wilderness Area	50% of the total area of Clarin Island Wilderness		Clarin	Clarin	
	Calape Group of Islands Mangrove Swamp Forest Reserve and Wilderness Area; Cabilao Sandingan Islands, Mangrove	2 LGUs comprising the mangrove swamp reserve forest		Calape Loon	Calape	Calape



Elements-at-		Exposure Analysis	DRRM Targets				
Risk	Sub-category	Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)	
	Swamp Forest Reserve						
	Candijay-Anda- Mabini Mangrove Swamp Forest Reserve and Wilderness Area	3 LGUs comprising the mangrove swamp/wilderness area		Candijay, Anda, Mabini			
	Inabanga Wilderness Area and Mangrove Swamp Forest Reserve	80% of the total area of the Inabanga wilderness/swamp area		Inabanga	Inabanga		
	President Carlos P. Garcia Mangrove Swamp Forest Reserve	70% of the total mangrove swamp forest		Pres. CPG	Pres. CPG		
	Getafe Group of Islands Mangrove Swamp Forest Reserve/Wilderness Area; and	80% of the total area of the Getafe wilderness/swamp area		Getafe	Getafe		
	Ubay Mangrove Swamp Forest Reserve	70% of the total mangrove swamp forest		Ubay			
Heritage areas and tourism sites		All national heritages in 19 LGUs	Reduction of affected heritage areas and tourism sites	Loboc, Cortes, Alburquerque, Loon, Balilihan, Dimiao, Loay, Baclayon, Panglao, Dauis, Inabanga, Danao, Jagna, Talibon, Sierra Bullones, Pilar, Guindulman, Duero	Loboc, Sierra Bullones, Pilar, Guindulman, Duero, Dauis, Maribojoc, Panglao	Loboc, Sierra Bullones, Pilar, Guindulman, Duero, Dauis, Maribojoc, Panglao	



Image of DRRM targets for Flooding, Typhoon, and Severe Wind (how Disaster Risk are expected to be reduced if the DRRM targets are achieved)

Summary of the DRRM Targets (Provincial Assets)								
Number of Reduction of elements-at-risk per term								
	elements-at-risk Short-Term (2023-2025) Medium-Term (2026-2028) Long-Term (2029-2031)							

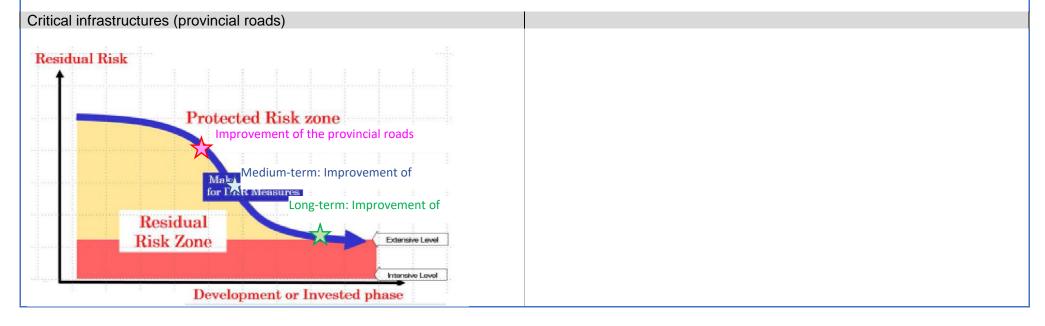




Table 27: Drought

Exposure Analysis				DRRM Targets				
Elements-at- Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)		
Critical Facilities	Water Source	All affected water sources in 10 LGUs	Reduction of affected water sources	Corella, Cortes, Balilihan, Loboc, Danao, Getafe, Ubay, Buenavista, San Miguel, Dagohoy Existing PPA: 1M / municipality, 100K / barangay water system improvement	Corella, Cortes, Balilihan	Corella, Cortes, Balilihan,		
	Ongoing construction / Proposed Water Development Projects	All on going water infrastructure in 8 LGUs Short-Term 2 LGUs Medium-Term 6 LGUs	Reduction of affected ongoing water infrastructure development	Dimiao, Mabini	Pilar, Duero, Danao, San Miguel, Valencia			
Agricultural areas	Agricultural areas	All Agricultural Towns in 45 LGUs	Reduction of affected agricultural areas	45 LGUs				
	Dams, Irrigation facilities	All towns with Dams, Irrigation facilities in 7 LGUs Short-Term 4 LGUs Medium-Term 3 LGUs	Reduction of affected dams, irrigation, facilities	Ubay, San Miguel, Pilar, Talibon (2)	Buenavista, Calape, Alicia			
Environmental areas	Watershed	11 Watershed areas Short-Term 7 watersheds Medium-Term 4 watersheds	Reduction of affected key environmental areas	7 Watershed Areas	4 Watershed Areas			



	Exp	osure Analysis	DRRM Targets				
Elements-at- Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)	
	Forest / Grass (fires)	All forest and grass in 22 LGUs		Guindulman, Candijay, Alicia, Ubay, Pilar, Danao, Mabini, San Miguel, Dagohoy, Inabanga, Talibon, Getafe, Buenavista, S-Bullones, Trinidad, Jagna, Carmen, Duero, CPG, Lila, Dimiao.			



Image of DRRM targets for Drought (how Disaster Risk are expected to be reduced if the DRRM targets are achieved)

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	Number of	Reduction of elements-at-risk per term		
	elements-at-risk	Short-Term (2023-2025)	Medium-Term (2026-2028)	Long-Term (2029-2031)





Table 28: Rain Induced Landslide

	Ехр	osure Analysis			DRRM Targets	
Elements- at-Risk	Sub- categorization	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)
Population		282,096 (25% of total exposed population) Short-Term 158,828 Medium-Term 61,634 Long-Term 61,634		Loboc , Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar (not too severe) Catigbian , Inabanga, Balilihan, Antequera, San Miguel	Loboc , Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar	Loboc , Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar (no too severe)
Agriculture areas	Agriculture areas	49,678 (28% of total exposed area) Short-Term 32,662 ha Medium-Term 8,508 ha Long-Term 8,508 ha	Reduction of affected agriculture areas	Sagbayan, Garcia-Hernandez, Duero, S. Bullones, Jagna, Danao, Loboc, Candijay, Buenavista, Getafe, Inabanga	Sagbayan, Garcia-Hernandez, Duero, S. Bullones, Jagna	Sagbayan, Garcia-Hernandez, Duero, S. Bullones, Jagna
	Fisheries	All fisheries in 4 LGUs Short-Terms 1 LGUs Medium-Terms 3 LGUs	Reduction of affected fisheries	Danao	Lila, Loay, Danao	
	Poultry and Livestock	All LGUs traversed by fault lines		all LGUs traversed by fault lines	all LGUs traversed by fault lines	all LGUs traversed by fault lines
Critical facilities and	Roads and Bridges	3,772 km (100% of total exposed roads)	Reduction of affected roads and bridges	Loboc, Bilar, (all LGUs traversed by fault lines)		
lifelines	Schools	All schools in 8 LGUs	Reduction of affected schools	Duero, Balilihan, Dagohoy, Carmen, Sevillla, Danao, Garcia Hernandez		
	Evacuation centers	All evacuation center in Loboc	Reduction of affected evacuation centers	Loboc Evacuation Center		



Image of DRRM targets for Rain-Induced Landslide (how Disaster Risk are expected to be reduced if the DRRM targets are achieved)

Summary of the DRRM Targets (Provincial Assets)							
	Number of	Reduction of elements-at-risk per term					
	elements-at-risk	Short-Term (2023-2025)	Medium-Term (2026-2028)	Long-Term (2029-2031)			

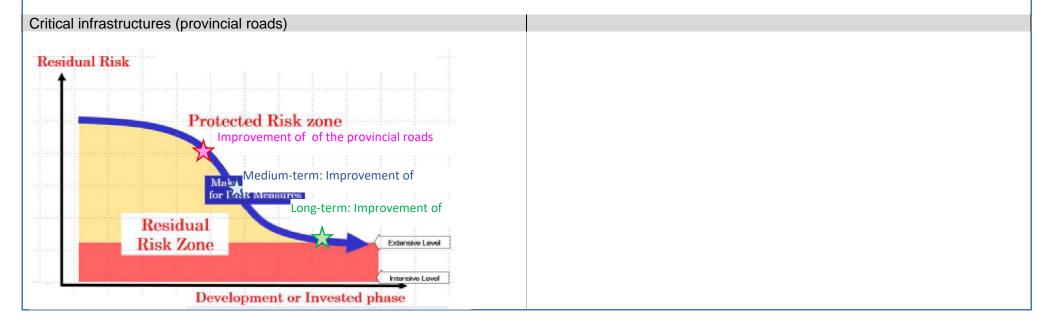




Table 29: Storm Surge

Elements-at-		Exposure Analysis		DRRM Targets				
Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)		
Population	Indigenous settlements (Badjao)	All indigenous settlements in 3 LGUs Short-Term 1 LGUs Medium-Term 1 LGUs Long-Term 1 LGUs	Reduction of affected population	Getafe	Panglao	Ubay		
	Informal Settlers	All informal settlers in 24 LGUs Short-Term 8 LGUs Medium-Term 8 LGUs Long-Term 8 LGUs	Reduction of affected informal settlers	Bien Unido, Pres. CPG, Talibon, Loay, Duero, Lila, Garcia-Hernandez, Jagna	Baclayon, Mabini, Calape, Anda, Albuquerque. Tubigon, Inabanga, Candijay	Loon, Maribojoc, Buenavista Tagbilaran, Dimiao, Valencia Guindulman, Clarin		
Critical facilities and lifelines	Roads and Bridges	42.433 km (53% of total exposed roads) Short-Term 8.422 km (10%) Medium-Term 19.606 km (24%) Long-Term 14.405 km (18%)	Reduction of affected roads and bridges	Dauis, Baclayon, Albuquerque, Lila	Loay, Jagna, Dimiao, Garcia- Hernandez	Valencia, Anda, Duero, Ubay		
	Water	All water facilities in 9 LGUs Short-Term 4 LGUs Medium-Term 3 LGUs Long-Term 3 LGUs	Reduction of affected of water facilities	Pres. CPG, Bien Unido, Trinidad	Calape, Loon, Talibon	Tubigon, Getafe, Inabanga		
	Power	All powers in 10 LGUs Short-Term 3 LGUs Medium-Term 3 LGUs Long-Term 3 LGUs	Reduction of affected power facilities	Pres. CPG, Ubay, Bien Unido	Mabini, Anda, Guindulman	Jagna, Baclayon, Garcia- Hernandez		
	Municipal Halls	All municipal halls in 30 coastal LGUs	Reduction of affected municipal halls	Guindulman, Anda, Garcia- Hernandez, Jagna, Lila, and other coastal LGUs	Baclayon, Valencia, Inabanga, and other coastal LGUs	Loay, Alburquerque, Bien Unido, and other coastal LGUs		
	Schools	All schools in 30 coastal LGUs	Reduction of affected schools	Baclayon, Loay, Dimiao, Valencia, Pres. CPG, Loon, and other coastal LGUs	Lila, Inabanga, Tubigon, Calape, Ubay, and other coastal LGUs	Buenavista, Getafe, Bien Unido, Talibon, and other coastal LGUs		



Elements-at-		Exposure Analysis		DRRM Targets				
Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)		
	Churches	All churches in 30 coastal LGUs	Reduction of affected churches	Anda, Baclayon, Bien Unido, and other coastal LGUs	Dauis, Panglao, and other coastal LGUs	Dimiao, and other coastal LGUs		
	Evacuation centers	All evacuation centers in 30 coastal LGUs	Reduction of affected of evacuation centers	Garcia-Hernandez, Jagna, Guindulman, and other 30 coastal LGUs				
	Seaports	All seaports in 11 LGUs Short-Term 4 LGUs Medium-Term 4 LGUs Long-Term 3 LGUs	Reduction of affected of seaports	Tagbilaran City, Loon, Alburquerque, Maribojoc	Jagna, Getafe, Ubay, Pres CPG	Clarin, Talibon, Tubigon		
Agriculture areas	Fisheries	All fisheries in 11 LGUs Short-Term 4 LGUs Medium-Term 4 LGUs Long-Term 3 LGUs	Reduction of affected fisheries	Mabini, Talibon, Bien Unido, Pres. CPG	Candijay, Anda, Inabanga, Panglao	Calape, Loon, Tubigon		
Built-up Areas	Microbusinesses, MSMEs, Remittance Center	6,243 ha (76% of total exposed area) Short-Term 1,724 ha (21%) Medium-Term 1,259 ha (15%) Long-Term 3,261 ha (40%)	Reduction of affected built-up areas	Bien Unido, Talibon, Panglao, Baclayon, Jagna, Pres. Carlos P. Garcia, Valencia, Garcia- Hernandez Ubay, Dimiao	Duero, Lila, Getafe, Guindulman, Inabanga, Buenavista, Loay, Calape, Loon, Anda	Tubigon, Tagbilaran City, Alburquerque, Maribojoc Mabini, Candijay, Clarin, Cortes, Dauis		
Environmental areas	River basins / Watershed	All watersheds in 6 LGUs Short-Term 2 LGUs Medium-Term 2 LGUs Long-Term 2 LGUs	Reduction of affected key watershed	Inabanga Trinidad	Candijay Duero	Loon Cortes		
	Mangroves	All mangrove area in 15 LGUs Short-Term 6 LGUs Medium-Term 9 LGUs	Reduction of affected mangroves	Tubigon, Getafe, Clarin, Calape Loon, Maribojoc	Albuquerque Baclayon, Loay Panglao, Buenavista, Inabanga, Anda, Mabini, Candijay			



Elements-at-		Exposure Analysis	DRRM Targets				
Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)	
Heritage areas and tourism sites	Centennial Churches	All churches in 9 LGUs Short-Term 7 LGUs Medium-Term 6 LGUs Long-Term 2 LGUs	Reduction of affected heritage areas and tourism sites	Panglao, Loon, Anda, Cortes, Baclayon, Loay, Maribojoc	Panglao, Baclayon, Loay, Lila, Anda, Dimiao	Panglao, Anda	



Image of DRRM targets for Storm Surge (how Disaster Risk are expected to be reduced if the DRRM targets are achieved)

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		Number of	Reduction of elements-at-risk per term						
		elements-at-risk	Short-Term (2023-2025)	Medium-Term (2026-2028)	Long-Term (2029-2031)				
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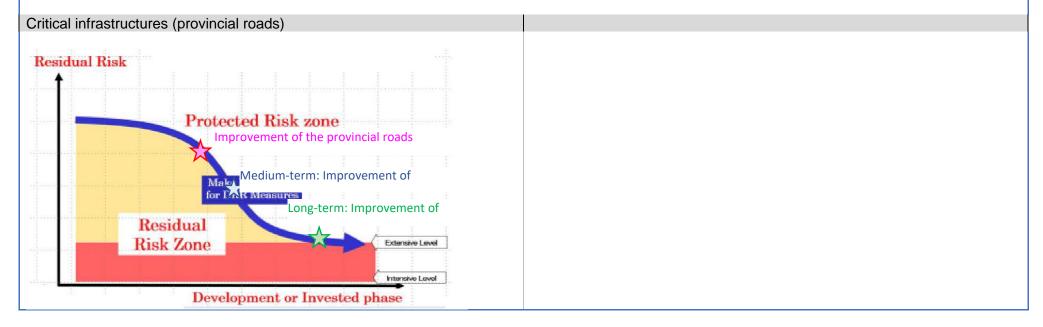




Table 30: Tsunami

		Exposure Analysis		DRRM Targets				
Elements-at- Risk	Sub-category	Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)		
Population	Indigenous settlements (Badjao)	All indigenous settlements in 4 LGUs Short-Term 2 LGUs Medium-Term 1 LGUs Long-Term 1 LGUs	Reduction of affected population	Dauis, Getafe	Panglao	Ubay		
	Informal Settlers	-	Reduction of affected informal settlers					
Critical facilities and lifelines	Roads and Bridges	141 km (49% of total exposed roads) Short-Term 46 km (16%) Medium-Term 47 km (16%) Long-Term 48 km (17%)	Reduction of affected roads and bridges	Dauis, Baclayon, Albuquerque, Lila, Guindulman, Anda, Duero	Loay, Jagna, Dlmiao, Garcia- Hernandez,	Valencia, Anda, Duero, Ubay,		
	Water systems	All water systems in 10 LGUs Short-Term 4 LGUs Medium-Term 3 LGUs Long-Term 4 LGUs	Reduction of affected of water facilities	Pres. CPG, Bien Unido, Trinidad	Calape, Loon, Talibon	Tubigon, Getafe, Inabanga, Ubay		
	Power	All power facilities in 12 LGUs	Reduction of affected power facilities	Pres. CPG, Bien Unido, Ubay, Loon, Maribojoc,	Mabini, Anda, Guindulman, Loon, Maribojoc,	Jagna, Baclayon, Garcia, Loon, Hernandez, Tubigon, Maribojoc,		
	Municipal Halls	All municipal hall (30) in 30 coastal LGUs	Reduction of affected municipal halls	Maribojoc, All 30 coastal LGUs	Clarin, All 30 coastal LGUs	Getafe, All 30 coastal LGUs		
	Schools	All schools in 30 coastal LGUs	Reduction of affected schools	All 30 coastal LGUs	All 30 coastal LGUs	All 30 coastal LGUs		
	Churches	All churches in 30 coastal LGUs	Reduction of affected churches	All 30 coastal LGUs	All 30 coastal LGUs	All 30 coastal LGUs		



		Exposure Analysis		DRRM Targets				
Elements-at- Risk	Sub-category	Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)		
	Evacuation centers	All evacuation centers in 30 coastal LGUs	Reduction of affected evacuation centers	All 30 coastal LGUs	All 30 coastal LGUs	All 30 coastal LGUs		
	Hospitals	All hospital in 30 coastal LGUs	Reduction of affected seaports	All 30 coastal LGUs	All 30 coastal LGUs	All 30 coastal LGUs		
	Gas Station	All Gas Station in 30 coastal LGUs	Reduction of affected gas stations	All 30 coastal LGUs	All 30 coastal LGUs	All 30 coastal LGUs		
	Barangays Halls	All barangay halls in 30 coastal LGUs	Reduction of affected of Barangay halls	All 30 coastal LGUs	All 30 coastal LGUs	All 30 coastal LGUs		
	RHU	All RHU in 30 coastal LGUs	Reduction of affected RHUs	All 30 coastal LGUs	All 30 coastal LGUs	All 30 coastal LGUs		
	Fire Stations	All fire station in 30 coastal LGUs	Reduction of affected fire stations	All 30 coastal LGUs	All 30 coastal LGUs	All 30 coastal LGUs		
	Lying-in Clinic/Centers	All lying-in clinic centers in 30 LGUs	Reduction of affected lying-in clinic/centers	All 30 coastal LGUs	All 30 coastal LGUs	All 30 coastal LGUs		
Agriculture areas	Coastal Towns	8,524 ha (91% of total exposed agri-area) Short-Term 1,933 ha (20%) Medium-Term 1,667 ha (18%) Long-Term 4,924 ha (53%)	Reduction of affected coastal towns	Cortes, Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Albuquerque, Baclayon, Panglao, Dauis, Mabini, Ubay	Tubigon, Clarin, Inabanga, Mabini, Anda, Guindulman, Garcia-Hernandez, Valencia, Loboc	Buenavista, Getafe, Talibon , Ubay, Bien Unido, Duero, Jagna, CPG		
	Fisheries	All fisheries in 17 LGUs Short-Term 8 LGUs Medium-Term 5 LGUs Long-Term 4 LGUs	Reduction of affected fisheries	Mabini, Ubay, Talibon, Bien Unido, Pres. CPG, Calape, Candijay	Candijay, Getafe, Anda, Inabanga, Panglao	Calape, Clarin, Loon, Tubigon		
	Poultry and Livestock	All poultry and livestock in 28 LGUs	Reduction of affected	Cortes, Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Albuquerque, Baclayon,	Tubigon, Clarin, Inabanga, Mabini, Anda, Guindulman, Garcia-Hernandez, Valencia	Buenavista, Getafe, Talibon, Trinidad, Ubay, Bien Unido, Duero, Jagna, CPG		



		Exposure Analysis		DRRM Targets				
Elements-at- Risk	Sub-category	Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)		
				Panglao, Dauis				
Built-up Areas		1,623 ha (95% of total exposed built-up area) Short-Term 833 ha (49%) Medium-Term 631 ha (37%) Long-Term 159 ha (9%)	Reduction of affected built-up areas	Bien Unido, Talibon, Panglao, Baclayon, Jagna, Pres. CPG, Valencia, Garcia-Hernandez, Ubay	Duero, Lila, Getafe, Guindulan, Inabanga, Buenavista, Loay, Calape, Loon, Anda	Tagbilaran City, Albuquerque, Maribijoc, Mabini, Candijay, Clarin, Cortes, Dauis		
	Microbusinesses, MSMEs, Remittance Center	All affected Microbusinesses, MSMEs, Remittance Center in 30 LGUs Short-Term 11 LGUs Medium-Term 10 LGUs Long-Term 9 LGUs	Reduction of affected Microbusinesses, MSMEs, Remittance Center	Cortes, Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Alburquerque, Baclayon, Panglao, Dauis	Tubigon, Clarin, Inabanga, Mabini, Anda, Guindulman, Garcia- Hernandez, Valencia, Loboc, Tagbilaran City	Buenavista, Getafe, Talibon, Trinidad, Ubay, Bien Unido, Duero, Jagna, CPG		
Environmental areas	River basins / Watershed/ Mangrove/ Coastline	All affected key environmental area in 15 LGUs Short-Term 5 LGUs Medium-Term 5 LGUs Long-Term 5 LGUs	Reduction of affected key River basins / Watershed/ Mangrove/ Coastline	Cortes, Maribojoc, Loon, Calape, Dimiao	Tubigon, Clarin, Inabanga, Mabini, Anda	Buenavista, Getafe, Talibon, Trinidad, Ubay		
Heritage areas and tourism sites	Centennial Churches	All heritage sites in 16 LGUs Short-Term 7 LGUs Medium-Term 6 LGUs Long-Term 5 LGUs	Reduction of affected heritage areas and tourism sites	Lila, Loay, Alburquerque, Baclayon, Panglao, Dauis, Anda, and all protected seascapes	Guindulman, Garcia Hernandez, Valencia, Loboc, Tagbilaran City, Anda, and all protected seascapes	Bien Unido, Duero, Jagna, CPG, Anda, and all protected seascapes		



Image of DRRM targets for Tsunami (how Disaster Risk are expected to be reduced if the DRRM targets are achieved)

July of the	Transcription (i	Tovilloidi / toosto,		
	Number of	Reduction of elements-at-risk per term		
	elements-at-risk	Short-Term (2023-2025)	Medium-Term (2026-2028)	Long-Term (2029-2031)

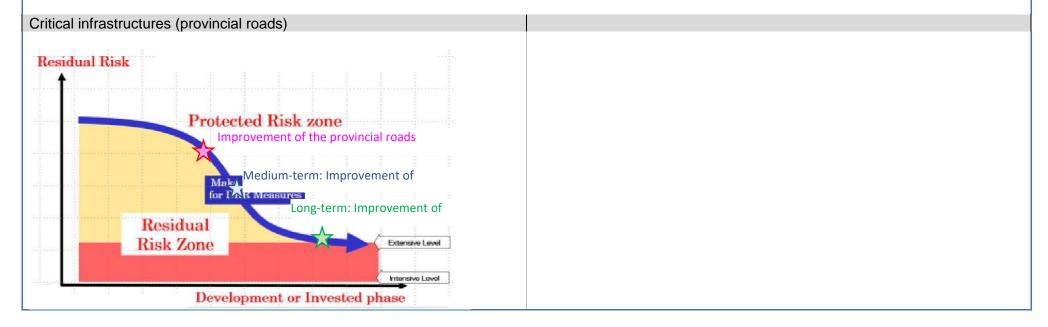




Table 31: Liquefaction / Ground Shaking

		Exposure Analysis			DRRM Targets	
Elements-at- Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)
Population	LGUs near East Bohol Fault (epicenter at Jagna, SW propagation), and South Offshore Fault	212,421 (65% of total exposed population) Short-Term 79,329 (24%) Medium-Term 80,836 (25%) Long-Term 52,256 (16%)	Reduction of affected population	Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Carmen, Sierra Bullones, Pilar, Bilar, Batuan, Balilihan, Catigbian, San Isidro, Sevilla, Antequera, Cortes, Maribojoc, Calape, Sikatuna, Loboc, Corella	Lila, Dimiao, Mabini, Alicia, Ubay, Talibon	Baclayon, Alburquerque, Loay, Garcia-Hernandez, Tubigon, Getafe, Buenavista, Inabanga
Critical facilities and lifelines	Roads and Bridges	183km (12% of total roads)	Reduction of affected roads and bridges	Loay, Valencia, Lila, Dimiao, Jagna, Garcia-Hernandez, Tagbilaran City		
	Dam (reservoir)	All dams in 8 LGUs	Reduction of affected dams	Garcia-Hernandez, Pilar, San Miguel, Ubay, Talibon, Tubigon, Candijay		
	Power	All power facilities in 2 LGUs	Reduction of affected power facilities	Jagna (BOHECO II), Ubay		
	Municipal Halls	All municipal halls	Reduction of affected municipal halls	Jagna, Tagbilaran, All cell sites		
	Schools	All schools in 11 LGUs Short-Term 5 LGUs Medium-Term 2 LGUs Long-Term 4 LGUs	Reduction of affected schools	Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Interior and South Municipalities	Lila, Dimiao,	Baclayon, Alburquerque, Loay, Garcia-Hernandez,
	Evacuation centers	All evacuation centers in Tagbilaran Cirt	Reduction of affected evacuation centers	Tagbilaran City		
	Hospitals	All hospitals in 10 LGUs Short-Term 4 LGUs	Reduction of affected hospitals	Jagna, Tagbilaran City, Valencia, Panglao	Lila, Dimiao,	Baclayon, Alburquerque, Loay, Garcia-Hernandez,



		Exposure Analysis			DRRM Targets	
Elements-at- Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)
		Medium-Term 2 LGUs Long-Term 4 LGUs				
	Ports	All seaports in 3 LGUs	Reduction of affected seaports	Valencia, Tagbilaran City, Jagna		
Agriculture areas	Agriculture	1,126 ha (2% of total area)	Reduction of affected agriculture areas	Garcia-Hernandez, Loay, Jagna, Alburquerque, Tagbilaran City	-	
	Fisheries	All affected fisheries in 2 LGUs	Reduction of affected fisheries		Lila, Loay	
	Poultry and Livestock	All poultry and livestock in all LGUs	Reduction of affected poultry and livestock		all LGUs traversed by fault lines	
Environmental areas	River basins / Watershed	All water systems area in 6 LGUs Short-Term 2 LGUs Medium-Term 2 LGUs Long-Term 2 LGUs	Reduction of affected key water systems areas	Inabanga, Trinidad	Candijay, Duero	Loon, Cortes
	Mangrove Cover	All Mangrove area in 15 LGUs Short-Term 6 LGUs Medium-Term 9 LGUs	Reduction of affected key environmental areas	Tubigon, Getafe, Clarin, Calape, Loon, Maribojoc	Albuquerque, Baclayon, Loay, Panglao, Buenavista, Inabanga, Anda, Mabini, Candijay	
Heritage areas and tourism sites	Centennial Churches	All affected heritage areas in 22 LGUs	Reduction of affected heritage areas and tourism sites	Baclayon, Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Lila, Dimiao, Alburquerque, Loay, Garcia- Hernandez, Cortes, Maribojoc, Loon, Calape,Balilihan, Alburquerque, Jagna, Tagbilaran City, Valencia, Dauis, Panglao	Baclayon, Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Lila, Dimiao, Alburquerque, Loay, Garcia-Hernandez, Lila, Dimiao,	Baclayon, Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Lila, Dimiao, Alburquerque, Loay, Garcia-Hernandez, Baclayon, Alburquerque, Loay, Garcia-Hernandez,



Image of DRRM targets for Liquefaction/ Ground Shaking (how Disaster Risk are expected to be reduced if the DRRM targets are achieved)

	,	•	,		
		Number of	Reduction of elements-at-risk per term		
		elements-at-risk	Short-Term (2023-2025)	Medium-Term (2026-2028)	Long-Term (2029-2031)
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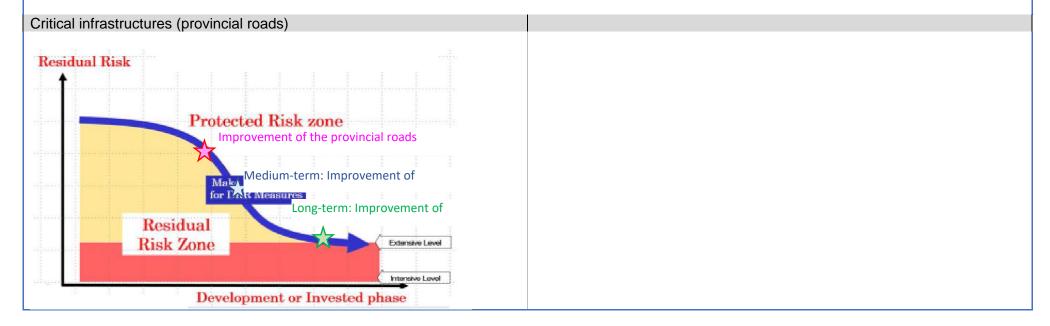




Table 32: Sinkholes

	Exposure Analysis		DRRM Targets				
Elements-at- Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)	
Population	LGUs validated	Majority of population in 16 LGUs Portion of population in 7 LGUs	Reduction of affected population	(Majority) Corella, Lila, Loboc, Sevilla, Dauis, Valencia, Guindulman, Anda, Sierra Bullones, San Isidro, Tubigon, Catigbian, Antequera, Calape, Cortes (Portions) Panglao, Balilihan, Garcia- Hernandez, Sagbayan, Carmen, Tagbilaran, Maribojoc	(Majority) Corella, Lila, Loboc, Sevilla, Dauis, Valencia, Guindulman, Anda, Sierra Bullones, San Isidro, Tubigon, Catigbian, Antequera, Calape, Cortes (Portions) Panglao, Balilihan, Garcia- Hernandez, Sagbayan, Carmen, Tagbilaran, Maribojoc	(Majority) Corella, Lila, Loboc, Sevilla, Dauis, Valencia, Guindulman, Anda, Sierra Bullones, San Isidro, Tubigon, Catigbian, Antequera, Calape, Cortes (Portions) Panglao, Balilihan, Garcia- Hernandez, Sagbayan, Carmen, Tagbilaran, Maribojoc	
Built-up areas	Planned urbanization	Majority of population in all affected LGUs	Reduction of affected built-up areas	Tubigon, Talibon Jagna, Carmen, Loon, Tagbilaran, Cortes, Maribojoc, Trinidad, Calape, Candijay, Dauis	(Majority of LGUs based on the MGB hazard map)	(Majority of LGUs based on the MGB hazard map)	



Image of DRRM targets for Sinkholes (how Disaster Risk are expected to be reduced if the DRRM targets are achieved)

Summary of the DRRM Targets (Provincial Assets) | Number of elements-at-risk | Reduction of elements-at-risk per term | Short-Term (2023-2025) | Medium-Term (2026-2028) | Long-Term (2029-2031)

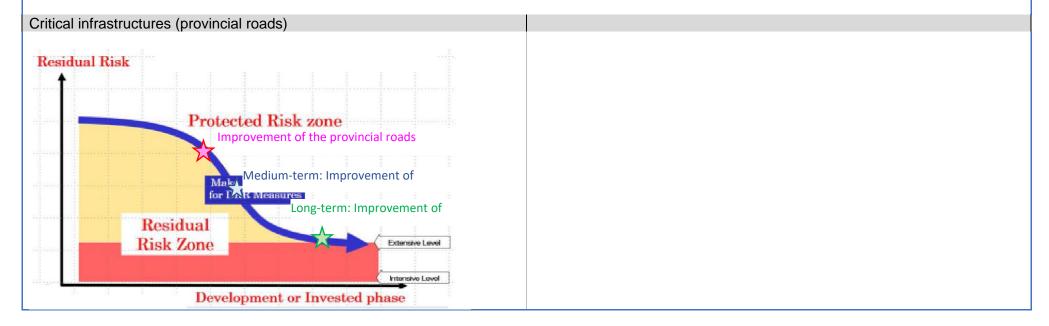




Table 33: Earthquake-Induced Landslides

Elements-at-		Exposure Analysis			DRRM Targets	
Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)
Population	LGUs traversing/ near East Bohol Fault	98,551 (54% of total exposed population) Short-Term 31,837 (17%) Medium-Term 33,857 (18%) Long-Term 33,857 (18%)	Reduction of affected population	Loboc, Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, San Isidro, Sevilla, Valencia, Candijay, Bilar, Alicia, Sikatuna, Batuan LGUs traversing/ near East Bohol Fault	Loboc , Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar, Alicia,Sikatuna, Batuan	Loboc , Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar, Calape, Alicia,Sikatuna, Batuan
	Other affected LGUs	27,877 (12% of total population)		Calape, Bilar, Loboc, Dimiao	Candijay (Cambane), Calape, Bilar, Loboc	Calape, Bilar, Loboc
Critical facilities and lifelines	Roads and Bridges	All roads in affected LGUs	Reduction of affected roads and bridges	Loboc, Bilar, Loay, Catigbian, Balilihan LGUs traversing/ near East Bohol Fault; LGUs extending to north west of Bohol	all LGUs traversed by fault lines	
	Schools	All schools in affected LGUs	Reduction of affected schools	Duero, Balilihan, Dagohoy LGUs traversing/ near East Bohol Fault; LGUs extending to north north west of Bohol	all LGUs traversed by fault lines, Calape	all LGUs traversed by fault lines
	Evacuation centers	All evacuation center in affected LGUs	Reduction of affected of evacuation centers		all LGUs traversed by fault lines	all LGUs traversed by fault lines
Agriculture areas	Fisheries	All fisheries in 2 LGUs	Reduction of affected fisheries		Lila, Loay	

Local Disaster Risk Reduction and Management Plan Province of Bohol



Elements-at-	nents-at- Exposure Analysis			DRRM Targets			
Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)	
	Poultry and Livestock	All poultry and livestock in affected LGUs	Reduction of poultry and livestock		all LGUs traversed by fault lines		
Built-up Areas	Slope Protection	All affected slope protection in 8 LGUs	Reduction of affected slope protection	Sagbayan, Garcia-Hernandez, Duero, S. Bullones, Jagna, Calape, Bilar, Batuan	Sagbayan, Garcia-Hernandez, Duero, S. Bullones, Jagna, Calape	Sagbayan, Garcia-Hernandez, Duero, S. Bullones, Jagna, Calape	



Image of DRRM targets for Earthquake-Induced Landslide (how Disaster Risk are expected to be reduced if the DRRM targets are achieved)

i	,	5 (,		
		Number of	Reduction of elements-at-risk per term		
		elements-at-risk	Short-Term (2023-2025)	Medium-Term (2026-2028)	Long-Term (2029-2031)
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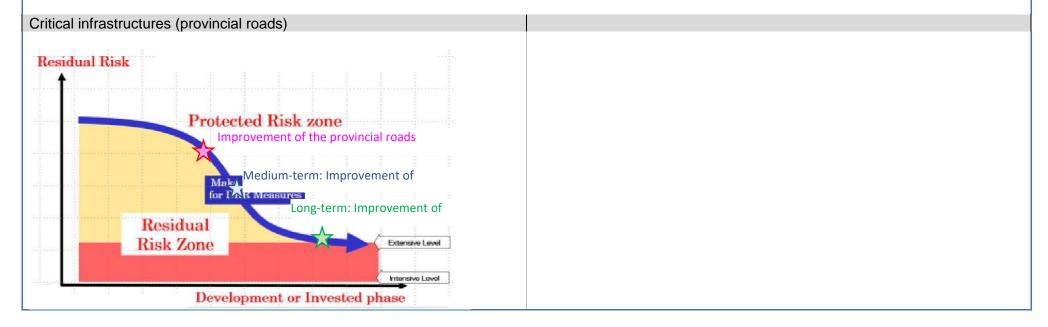




Table 34: Ground Rupture

Elements-at-		Exposure Analysis	DRRM Targets			
Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)
Population	East Bohol Fault and south Offshore fault	All population in 27 LGUs Short-Term 6 LGUs Medium-Term 17 LGUs Long-Term 4 LGUs	Reduction of affected population	Loboc, Lila, Loay, S. Bullones, Pilar, Alicia	Anda, Candijay, Mabini, Ubay, San Miguel, Dagohoy, Batuan Dimiao, Valencia, Garcia Hernandez, Jagna, Duero, Guinduman, Albur, Bilar, Jagna	Baclayon, Sikatuna, Sevilla, Mabini
Critical facilities and lifelines	Roads and Bridges	All affected roads in 24 LGUs Short-Term 14 LGUs Medium-Term 7 LGUs Long-Term 3 LGUs	Reduction of affected roads and bridges	Loboc, Lila, Dimiao, Valencia, Garcia Hernandez, Jagna, Duero, Guinduman, Albur, Bilar, S. Bulllones, Pilar, Alicia, Jagna	Anda, Candijay, Mabini, Ubay, San Miguel, Dagohoy, Batuan	Baclayon, Sikatuna, Sevilla,
	Power	All power facilities in Loboc	Reduction of affected power facilities	Loboc		
	Communications	All communication facilities in 24 LGUs Short-Term 14 LGUs Medium-Term 7 LGUs Long-Term 3 LGUs	Reduction of affected communication facilities	Loboc, Lila, Dimiao, Valencia, Garcia Hernandez, Jagna, Duero, Guinduman, Albur, Bilar, S. Bulllones, Pilar, Alicia, Jagna	Anda, Candijay, Mabini, Ubay, San Miguel, Dagohoy, Batuan	Baclayon, Sikatuna, Sevilla,
	Municipal Halls	All municipal halls in 24 LGUs Short-Term 14 LGUs Medium-Term 7 LGUs Long-Term 3 LGUs	Reduction of affected municipal halls	Loboc, Lila, Dimiao, Valencia, Garcia Hernandez, Jagna, Duero, Guinduman, Albur, Bilar, S. Bulllones, Pilar, Alicia, Jagna	Anda, Candijay, Mabini, Ubay, San Miguel, Dagohoy, Batuan	Baclayon, Sikatuna, Sevilla,
	Schools	All schools in 24 LGUs Short-Term 14 LGUs Medium-Term 7 LGUs Long-Term 3 LGUs	Reduction of affected schools	Loboc, Lila, Dimiao, Valencia, Garcia Hernandez, Jagna, Duero, Guinduman, Albur, Bilar, S. Bulllones, Pilar, Alicia, Jagna	Anda, Candijay, Mabini, Ubay, San Miguel, Dagohoy, Batuan	Baclayon, Sikatuna, Sevilla,
	Evacuation centers	All evacuation centers in 24 LGUs Short-Term 14 LGUs Medium-Term 7 LGUs Long-Term 3 GUs	Reduction of affected evacuation centers	Loboc, Lila, Dimiao, Valencia, Garcia Hernandez, Jagna, Duero, Guinduman, Albur, Bilar, S. Bulllones, Pilar, Alicia, Jagna	Anda, Candijay, Mabini, Ubay, San Miguel, Dagohoy, Batuan	Baclayon, Sikatuna, Sevilla

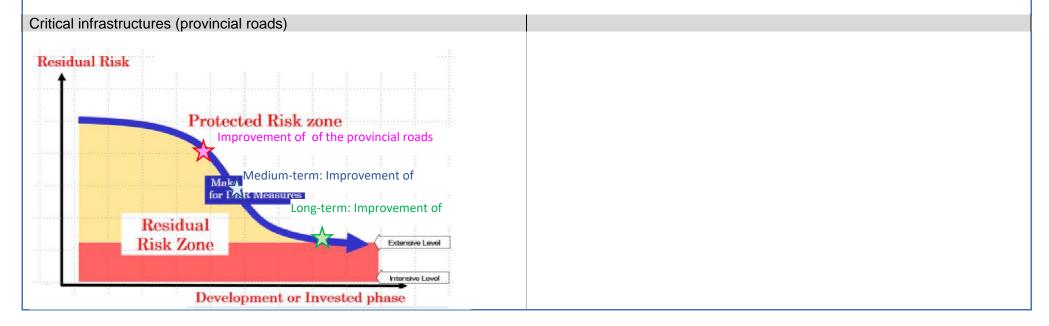


Elements-at-		Exposure Analysis			DRRM Targets	
Risk	Sub-category	Quantitative Description	Target	Short-Term (2023-2025)	Medium-Term (2025-2028)	Long-Term (2028-2031)
	Hospitals	All hospitals in 3 LGUs	Reduction of affected hospitals	Jagna, Valencia, Duero		
	Ports	All ports in Jagna	Reduction of affected ports	Jagna		
Agriculture areas	Agriculture	All agriculture area in 25 LGUs Short-Term 14 LGUs Medium-Term 7 LGUs Long-Term 4 LGUs	Reduction of affected agriculture areas	Loboc, Lila, Dimiao, Valencia, Garcia Hernandez, Jagna, Duero, Guinduman, Albur, Bilar, S. Bulllones, Pilar, Alicia, Jagna	Anda, Candijay, Mabini, Ubay, San Miguel, Dagohoy, Batuan	Baclayon, Sikatuna, Sevilla, Candijay,
Environmental areas	Mining	All mining area in Garcia Hernandez	Reduction of affected mining area	Garcia Hernandez		
Heritage areas and tourism sites		All heritage area in 25 LGUs Short-Term 14 LGUs Medium-Term 7 LGUs Long-Term 4 LGUs		Loboc, Lila, Dimiao, Valencia, Garcia Hernandez, Jagna, Duero, Guinduman, Albur, Bilar, S. Bulllones, Pilar, Alicia, Jagna	Anda, Candijay, Mabini, Ubay, San Miguel, Dagohoy, Batuan	Baclayon, Sikatuna, Sevilla, Candijay,



Image of DRRM targets for Ground Rupture (how Disaster Risk are expected to be reduced if the DRRM targets are achieved)

Summary of the DRRM Targets (Provincial Assets)						
	Number of	Reduction of elements-at-risk per term				
	elements-at-risk	Short-Term (2023-2025)	Medium-Term (2026-2028)	Long-Term (2029-2031)		





Chapter 3:

Disaster Risk Reduction and Management Plan

To contribute to the national DRRM goals and outcomes and realize its disaster risk reduction targets, Bohol Province will produce the following outputs from 2023 to 2025. The detailed and yearly programs, projects, and activities (PPAs) out of which these outputs will be produced are found in Form-3A. The implementation of PPAs and corresponding enforcement of policies shall strive for equal participation of men and women, and participation of children/youth, persons with disability, older people, and other key sectors (farmers, fishers, informal settlers, etc.).

Prevention and Mitigation

Bohol Province will endeavor to accomplish the following disaster prevention and mitigation outputs from 2023 to 2025.

Table 25. Key Outpute for Discotor Provention and Mitigation

	35: Key Outputs for Disaster Pr	
Hazard		Outputs to 2025)
_	Structural	Non-Structural
Across all hazards		 Updated Risk assessment study of 48 LGUs Integrated GIS in risk assessment and barangay profiling
Flooding/ Typhoon/ Severe Wind	 Formulated Initial Detailed Engineering plan and design for flood control Completed Structural analysis as basis for repair and retrofitting of roads and bridges Flood control measures implemented by LGU through the assistance of the Province and DPWH Improved and rehabilitated Flood- Control Infrastructures Completed, upgraded and safer roads, bridges, and seawall Constructed 2 evacuation center in 2 prioritized C/MLGUs 	 Passed additional policies and guidelines (Environmental Laws, Building Code and No-Build Zones and CLUP Developed a full-blown Project Proposal for the HDPE Cages, fiberglass boats Purchased and delivered HDPE Cages, fiberglass boats C/MLGUs
Drought	 2 water drilling installed per LGU 6 units rainwater collector and reservoir established /LGU (48 LGU's) 30 units of Small Farm Reservoir installed 	 3 municipalities planted with Banyan Trees and Bamboo tree (200 seedlings) Cloud seeding implemented in all Municipalities Planted mangrove seedlings in all coastal towns Adopted HVC to all 45 Agricultural Municipalities 6 towns with soil and water conservation measures implemented Farm field school established in all municipalities



Hazard		Outputs	
	Structural (2023	to 2025)	Non-Structural
	Structural	0	Distributed drought resistant and varieties of crops in 6 towns implemented All Agricultural Towns (45 Municipalities) with crop insurance Completed the study and presented the proposal for possible funding of the construction of the Desalination of water facilities to the top LGU's identified 10 municipalities planted with Banyan Trees and Bamboo tree (200 seedlings)
Storm Surge	 Upgraded and retrofitted structures Constructed seawall in the identified C/MLGUs – Phase 2 Compliant building structure Constructed Flood Control Structure in the identified C/MLGUs – Phase 2 Completed shoreline protection measures in C/MLGUs 		Facilitate implementation of relocation plan Technical assistance provided to C/MLGUs in the planting of mangroves and deployment of forest guards Monitoring of hired skilled workers (for affected individuals) Database of all critical infrastructures and lifelines at risk to Tsunami Geo-tagging of critical infrastructures and lifelines Evacuation centers compliant with standards Approved crop insurance for farmers Nurseries set-up in C/MLGUs Database of all heritage areas and tourism sites
Rain- Induced Landslide	 Slope protection implemented in 18 MLGUs 	0	Planted trees in the C/MLGUs List of critical facilities with maps
Earthquake, Groundshaking, Liquefaction	 Provincial bridges retrofitted 1 structure retrofitted in Baclayon 1 slope protection structure constructed 1 Completed slope protection in priority area 		Oriented 47 municipalities and 1 city on the Bohol hazards and risk profile and impacts to structures Surveys and validation completed; Presented the results and recommendations to PDRRMC Geotechnical site survey and map of Tagbilaran City Establish Continuous GPS Network for Crustal Deformation Studies 30 sites installed with No Build Zone Site signages Database of identified and assessed roads and bridges that are susceptible to EIL List of identified and assessed resettlement sites & evacuation areas provincewide



Hazard	Key Outputs						
	Structural (2023	3 to 2025) Non-Structural					
Earthquake- Induced Landslide	 1 slope protection structure constructed 	 Database of identified and assessed roads and bridges that are susceptible 					
	 Constructed slope protection on landslide prone areas along major roads, and communities 	to EIL Database of identified and assessed schools that are susceptible to EIL 10 sites installed with No Build Zone					
		Site signages List of identified and assessed					
		resettlement sites & evacuation areas provincewide 1 Completed slope protection in priority					
Sinkhole	1 slope protection structure constructed	 area Completed and approved Survey Report for Phase 3: Tagbilaran City, 					
		Tubigon, Calape, Sikatuna, Corella, Catigbian, San Isidro, Maribojoc, Balilihan					
		Karst Subsidence Hazard Assessment by MGB in 22 priority LGUs					
		 8 digitized hazard maps for identified C/MLGUs-Phase 3 10 sites installed with No Build 					
Infectious/ Communicable		Zone/Dumping Site signages 48 C/MLGUs with established MESU WQM Team established with policy					
Diseases		support in all C/MLGUs 40% of all Barangays ZOD					
		beds during EREID Outbreaks (ordinance)					
		 Policy Support for the establishment of 24/7 OpCen with budget appropriation (ordinance) 					
ASF		 Reviewed and approved on disease investigation and definition of disease cases 					
		 Operational quarantine service in all ports and airport 					
		 Enforced issued provincial policies on ASF C/MLGUs aware of ASF 					
		 ASF council and task force established at the provincial and C/MLGU level 					
		Clear ASF prevention program policies					

Disaster Preparedness

Table 36: Key Outputs for Disaster Preparedness shows the outputs under disaster preparedness that Bohol Province will produce from 2023 to 2025.



Table 36: Key Outputs for Disaster Preparedness

Hazard	Key Outputs (2023 to 2025)				
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Across all hazards	 Increased knowledge on risk assessment in 1 City and 47 Municipalities Produced and distributed IEC Materials to Provincial offices, 48 number of C/MLGUs Conducted 48 number of fora on risk assessment on C/MLGUs Conducted emergency drills quarterly in schools, C/MLGUs, Province level, etc. 48 C/MLGUs, 1 Province Approved and completed DRRM Plans for 48 C/MLGUs and Province 				
Flooding/ Typhoon/ Severe Wind	 Complete list of existing evacuation centers in 48 C/MLGUs Developed appropriate, gender-sensitive, safe, and inclusive design for evacuation center Acquired modern and state-of-the-art DRRM-related Equipment (Boom Trucks, Rescue Vehicles & Satellite /Handheld Radios) Available stockpiles for a minimum of 200 families Trained PDRRMC members with ICS and EOC Trained C/MLGUs with ICS, EOC, and Technical Search and Rescue Trainings Initiated creation of Quick/Emergency Response Units in 48 C/MLGUs 				
Drought	 4 units water trucks available and accessible Increased knowledge and awareness in 48 LGU Trained resort, boat operators and guide on CCA and DRR 				
Storm Surge	 Increase awareness on the nature of storm surge, to dos, in 10 coastal MLGUs 100% of the C/MLGUs with comprehensive risk-based LDRRMP Organized and capacitated ERT to 10 coastal LGUs 100% of the responders and 10% of community volunteers insured Updating and upgrading of trainings 30 coastal MLGUs trained on MHPSS number of drills participated by the Barangays Available food and non-food items for a minimum of 200 HH/families Yearly maintenance routine of wing van Managed and maintained warehouse Database/MIS set-up and operational in 48 LGUs Conducted 2 trainings of the officer-in-charge and personnel for critical facilities and lifelines on emergency management training to 30 coastal MLGUs Capacitated 100% of organized farmers association and livestock growers on the potential impacts of the hazard to 30 coastal MLGUs Capacitated 100% MSMEs managers within the built-up areas on emergency management of the hazard to 10 coastal MLGUs Updated 5 protected area management plans Capacitated the executive committee of the 16 protected area management board on emergency management of the hazard 100% site managers with acquired skills on emergency management of the hazard in 30 coastal MLGUs 				
Rain- Induced Landslide	 Visible and clear early warning signages installed in strategic areas LGUs with acquired knowledge on RIL Available response equipment and PPEs 				
Earthquake, Groundshaking, Liquefaction	 100 susceptible barangays conducted IEC increased awareness on the impacts of ground shaking, liquefaction 5 schools, 5 offices and 2 hospitals participated in earthquake drills 1 constructed evacuation center to cater affected communities 				



Hazard	Key Outputs (2023 to 2025)
	,,,
Earthquake-	 3 trainings conducted on USAR and SAR
Induced Landslide	 2 CSSR training conducted for 10 personnel of TaRSIER 117
	 1 set of Response Equipment for SRR, EMS, CSSR
Sinkhole	In averaged according to DDDM CCA to the horomory level or private level
Sinknoie	 Increased awareness on DRRM-CCA to the barangay level or purok level Laymanized IEC materials
	DRRM Orientation on KARST Subsidence hazard
	3 trainings conducted on USAR and SAR
	 1 training conducted on Risk Communication Training
	 2 underwater robot and/ rescue drone purchased
EREID	Trained 48 C/MLGUs/ All Hospitals on Donning and Doffing of PPEs
	 48 C/MLGUs/ All Hospitals obtained knowledge and skills on infection prevention and control
	'AO O/MI OHE/ AHAHARAN'(ala ahka') and hay a hadan and al 'Haran haka anakad
	O 48 C/MLGUS/ All Hospitals obtained knowledge and skills on integrated Disease Surveillance and Response
	48 C/MLGUs obtained knowledge on event-Based Surveillance System
	 48 C/MLGUs obtained knowledge on Clinical Pathway Guidelines on
	Infectious Diseases
	2 Personnel (1 per HCPN)
	To be determined
	 Constructed an OpCen space to monitor and respond EREID cases
	 1 per LGU? Representatives from LGUs with acquired knowledge and skills on BLS
	 Representatives from LGUs with acquired knowledge and skills on BLS 48 C/MLGUs
	 48 LGUs with acquired knowledge and skills on BLS
	1 per LGU Representatives from LGUs with acquired knowledge and skills
	on SFA
	o 48 C/MLGUs
	Representatives from LGUs Health Emergency with acquired knowledge
	and skills on Response Operation
	 30 participants with acquired knowledge and skills on Mass Casualty Management
	 48 C/MLGUs with acquired knowledge and skills on Mass Casualty
	Management Management
	 48 C/MLGUs with acquired knowledge and skills on WASH in
	Emergencies
	 48 C/MLGUs with acquired knowledge and skills on MHPSS
	 48 C/MLGUs with acquired knowledge and skills on Nutrition in
	Emergencies
	48 C/MLGUs with acquired knowledge and skills on Surveillance on Post Tytema Emergangian and Dispeters.
	Extreme Emergencies and Disasters o 48 C/MLGUs with acquired knowledge and skills on Minimum Initial
	Service Package
	 48 C/MLGUs with acquired knowledge and skills on Sub-PHEMAP
	 48 C/MLGUs with acquired knowledge and skills on Health and Hygiene
	promotion
	 C/MLGUs and Province with obtained knowledge on PDNA for health
	 48 C/MLGUs with available and accessible health Emergency
	Supplies/Logistics as necessary
	o mobile water purifier available and accessible to Province and C/MLGUs
	 100% of all RHUs with Back-up power supply that is in good condition



Hazard	Key Outputs (2023 to 2025)
ASF	 Continue surveillance to ensure surveillance activities are properly carried out continue master listing and registration of new backyard and commercial farms, breeding and livestock facilities, feed dealers, livestock handlers Trained 48 C/MLGUs with management and elimination of risk of disease contamination Continue master listing and registration of new backyard and commercial farms, breeding and livestock facilities, feed dealers, livestock handlers Trained 48 C/MLGUs with management and elimination of risk of disease contamination

Response and Early Recovery

Bohol Province is also set to produce the following disaster response and early recovery outputs from 2023 to 2025.

Table 27: Key Outputs for Disaster Bosponse

Table 37: Key Outputs for Disaster Response and Early Recovery					
Hazard	Key Outputs (2023 to 2025)				
Across all hazards	 Delivered food and non-food items to affected areas Accomplished RDNA Tapped available and alternative source of water and power supply Response teams conducted search and rescue to affected communities Number of families with additional income through with cash for activities Direct and systematic operations of Evacuation centers for affected families ICS and evacuation management Fully operational, as needed Response teams conducted search and rescue to affected communities SAR teams provided prompt assistance to affected areas Assisted and treated affected individuals needing medical attention Support to MLGU Emergency Response (Evacuation, Search & Rescue, Relief Operations) 				
Flooding/ Typhoon/ Severe Wind	 Execution of Memorandum of Understanding with NGAs, NGOs, POs, private groups and other concerned stakeholders for the provision of nutritious relief food items after an emergency 				
Drought	Available water supply rationing in affected areas				
Health Related	 MHPSS, WASH, Medical & NiE Teams provided immediate assistance to affected population, as needed Hygiene activities are adopted in all evacuation centers as necessary Mobile purifier available and accessible to affected population, as needed Health emergency supplies are available to C/MLGUs to augment supply gap, ss needed 				
EREID	 Operational provincial isolation center, as needed All hospitals compliant to EREID outbreak protocol, as needed 				
ASF	 Accomplished report on ASF outbreak in areas with confirmed cases, as needed 1 - 7 - 10 protocols in place and monitored Appropriate and safe burial sites identified for proper disposal of culled / slaughtered animals Implemented test and destroy Strictly implemented proper decontamination, disinfection Available and distributed compensation fund to affected farmers 				



Hazard	Key Outputs (2023 to 2025)					
	 continue master listing and registration of new backyard and commercial farms, breeding and livestock facilities, feed dealers, livestock handlers Trained 48 C/MLGUs with management and elimination of risk of disease contamination 					

Disaster Rehabilitation and RecoveryFor disaster rehabilitation and recovery, Bohol Province will aim to realize the following outputs from 2023 to 2025.

Table 38: Key Outputs for Disaster Rehabilitation and Recovery

Table 38: Key Outputs for Disaster Rehabilitation and Recovery					
Hazard	Key Outputs (2023 to 2025)				
Across all hazards	 Accomplished RDNA and PDNA Report Upgraded and safe infrastructures based on e PDNA Report Number of shelters provides to affected LGUs 				
Health Related Flooding/ Typhoon/ Severe	 Post incident Evaluation (PIE) and documentation of best practices, lessons, problems encountered, challenges and recommendations, as necessary all victims provided with psychosocial intervention base on medical assessment Health conditions reported and assisted, as necessary as necessary Health facilities upgraded based on standards as necessary Available medical resources if necessary Responders given recognition for saving lives (as necessary) DRRM-H Plan approved for 2026-2028 all responders provided with care and debrief as necessary Number of families with appropriate alternative livelihood 				
Wind	 Delivered and distributed farm inputs to affected farmers and farmer association 				
Drought	 All damage water sources are rehabilitated Allocated farm inputs to all affected farmers in MLGUs All affected farmers provided with appropriate source of alternative livelihood 				
Storm Surge	 Shelter assistance extended to affected families Affected families availed livelihood start-up kits Individuals with additional livelihood skills to generate income Accomplished assessment report of damages facilities and lifelines to be recommended for rehabilitation or retrofitted Number of families with additional income through alternative livelihood/cash or food for work Affected fisherfolks provided with 6-footer fiberglass reinforced non-motorized bancas to affected fisherfolks association Number of families with additional income through alternative livelihood/cash or food for work Damaged facilities repaired and upgraded 				



Hazard	Key Outputs (2023 to 2025)			
ASF	 Accomplished report on ASF outbreak in areas with confirmed cases, as needed 1 - 7 - 10 protocols in place and monitored Appropriate and safe burial sites identified for proper disposal of culled / slaughtered animals Implemented test and destroy Strictly implemented proper decontamination, disinfection Available and distributed compensation fund to affected farmers 			

Chapter 4: Three-Year LDRRMF Investment Plan

The LGU of Bohol Province needs to raise a total amount of PhP 4,767.2 Billion for its LDRRM Plan for 2023 to 2025. The amount needed for 2023 amounting to PhP 1,556.3 Billion; for 2024 amounting to PhP 1,532.4 Billion; and for 2025 amounting to PhP 1,678.5 Billion.

The amount of investment per thematic area and activity is detailed in Form-4A.

Table 39: Summary of the LDRRMFIP from 2023 to 2025

Thematic Area	Budget Required (In Million			Total Budget Required				
		PhP)						
	2023	2024	2025					
Prevention and Mitigation	916.3	842.9	857.1	2,616.3				
Preparedness	116.4	100.0	149.5	365.9				
Response and Early Recovery	154.0	183.8	217.4	555.2				
Rehabilitation and Recovery	369.6	405.7	454.5	1,229.8				
TOTAL	1,556.3	1,532.4	1,678.5	4,767.2				



Chapter 5: Monitoring and Evaluation Plan

Monitoring and Evaluation (M&E) are complementary mechanisms that allow assessment of the progress and impact of the LDRRMP. Monitoring entails routine observation and assessment of progress focusing on the PPAs and targets, while Evaluation gauges the outcomes and changes in the municipality's DRRM efforts. The PDRRM Office is responsible for the overall monitoring of the DRRM plan. On the other hand, the office or department responsible for the accomplishment of each PPA or target is in charge of monitoring the PPAs/targets assigned to them.

To determine the progress of the outputs and targets identified in the previous sections, Tubigon will conduct the following monitoring activities:

- ✓ <u>Weekly executive meeting</u> where all Department Heads report the progress of their departments
- ✓ Monthly general meeting of all Councils where all councils report the accomplishments of their groups, as well as the planned activities for the next implementation period. These meetings are attended by barangay councils and national government agencies as well.
- ✓ <u>Quarterly DRRM Council meeting</u> (or as the need arises) which primarily involves reporting of what happened to the planned activities and what still needs to be done

The updates provided during the foregoing meetings will be based on field monitoring, post-activity reporting, inventory of households and supplies, attendance sheets, social media posts and sent SMS, logbooks, and/or distribution lists done/prepared by the individual departments concerned.

Meanwhile, Bohol Province will conduct the following evaluation activities to gauge the results and gains achieved from producing its expected outputs and targets:

- ✓ Strategic Planning and Budgeting Workshop conducted yearly where each department reports its accomplishments, what needs to be done for the following fiscal year, and how much budget is needed.
- ✓ Evaluation during updating of the LDRRMP to be held in 2025.

The Monitoring and Evaluation Plan is detailed in Form-5A.



Annexures



Annex 1: Bohol's Assessment of Its Contribution to the NDRRMP Target Outcomes

Thematic Area:		Disaster Prevention and	Yes	No	REMARKS
Thematic Area.		Mitigation	res	NO	REWIARNS
Outcome 1: Improved access, understanding and use of updated risk information and research	1	Have the necessary human resource (with technical expertise) to handle data analytics (access, creation and analysis)	/		PPDO, BEMO, PEO, OPA, PDRRMO
	2	Have up-to-date gender and age- disaggregated disaster and climate hazard and risk information and understand how they (may) change in relation to development trajectories, demographic trends, urbanization and climate change	/		ONGOING WITH THE MLGU LEVEL (CDRA)
	3	Harmonize CBMS (under DILG) data with the integrated information management systems developed (Output 1.2.)	/		ONGOING WITH THE MLGU LEVEL
	4	Understand the timescales over which risks change and impacts occur	/		PPDO
	5	Have updated information and understanding of the main and secondary hazards including its impacts in your region, province, city/municipality and barangay and how they change over time and how multiple hazards may combine	/		
	6	Capacity building on the use of software's and applications such as REDAS and GeoRiskPH	/		
	7	Conduct climate and disaster risk assessment (CDRA)		/	falls under municipal level
	8	Consolidate up-to-date information about hazards, risk exposure, vulnerability, and coping capacities of people, assets and activities. Integrate scientific and lay knowledge (i.e., consider the latest available climate data and scenarios, seismic information, census data, etc. but also participatory mapping, enumerations, perception surveys, etc.)	/		ONGOING/UP DATING
	9	Community-risk assessments (including CDRA) complementing risk information produced and disseminated		/	ONLY AT MLGU LEVEL



	10	Have updated information of lifeline utilities, critical infrastructure and services, the potential impact of hazardous events and cascading effects (also have adequate and appropriate utilities and critical infra, not just update info as prevention and mitigation, and include these in local sectoral plans - e.g., infra)			PPDO, PGSO, PEO, DPWH, BOHECO 1,2,3, WATER UTILITIES AND LGU WATER WORKS
	11	Develop mechanisms to update data and to generate local disaster risk knowledge, enabling local actors to access and exchange risk-related information	/		
	12	Make sure that risk information is widely communicated and available to all stakeholders, in easy language and a usable format, aligned with the information needed by the OCD, so that risk information is factored in all decision-making processes	/		
Thematic Area:		Disaster Prevention and Mitigation	Yes	No	
Outcome 3: Increased structural integrity of housing	13	Update existing zoning, land-use and building regulation integrating risk information as to avoid	/		included in the CLUP updating
integrity of housing, building and critical infrastructure Outcome 8: Disaster Resilient		generation of new risks, reduce current ones and enhance resilience based on up-to-date local information			
building and critical infrastructure Outcome 8:	14	current ones and enhance resilience based on up-to-date	/		included in the CLUP updating
building and critical infrastructure Outcome 8: Disaster Resilient	14	current ones and enhance resilience based on up-to-date local information Ensure suitable land for different urban needs (residential, commercial, industrial, recreational, etc.) and adequate housing (in terms of size, quality			
building and critical infrastructure Outcome 8: Disaster Resilient		current ones and enhance resilience based on up-to-date local information Ensure suitable land for different urban needs (residential, commercial, industrial, recreational, etc.) and adequate housing (in terms of size, quality and location) Plan and make sure that different land uses receive appropriate			CLUP updating included in the



Thematic Area:		Disaster Prevention and	Yes	No	
Outcome 6: Natural resources and ecosystem integrity are improved and sustained	18	Mitigation Identify local ecosystems and understand their role in reducing disaster impacts (e.g., forest cover, slope stabilization, flood protection and enhancement of water quality, food supply stability, etc.) and their contribution to climate change mitigation (within city, municipality, and the	/		included in the LCCAP
	19	surrounding region) Capacitate LDCs, LDRRMCs in the integration of ecosystem management and restoration and environmental policies in crafting local development plans, budget and policies responding to the results of risk information produced	/		included in the LCCAP
	20	Support landscape-wide actions or inter-LGU alliances (e.g., WQMA, River Basin Alliances, Manila Bay Mandamus Agencies through OPMBCS) to formulate action plans, policies, and budget appropriately responding to risk information produced by Output 1.1 and LGUs & community-based risk assessments.	/		only Panglao is designated as WQMA
	21	 Have updated information on natural ecosystems and their current and potential uses. Consider multiple information sources 	/		included in the CRM plans, watershed mgt plans, PDPFP
Thematic Area:		Disaster Prevention and Mitigation, Disaster Preparedness	Yes	No	
Outcome 2: Implemented risk- centered national, sub-national, and sectoral policies, plans, and budget Outcome 10: Increased	22	Ensure disaster risk governance is a key component of the LGU's vision and/ or strategic development plan of the P/M/C, recognizing the relevance of participatory and inclusive mechanisms for DRR and resilience	/		DRRM PLAN REVIEW EVERY YEAR
institutional capacities of National and Local DRRM Councils and Offices Outcome 11: Strengthened	24	Discuss and agree on the levels of disaster risk that are acceptable to your LGU. Revise them over time Establish a single point of coordination (focal point/government office) which is accepted by all actors and with			
partnership and coordination among		strong leadership, political support (e.g. from the highest elected			



all key actors and stakeholders		level) and resources (human and financial)			
	25	Ensure that all departments in the local government understand the importance of DRR and resilience and how they relate to their everyday work and to overall R/P/C/M/Barangay development goals	/		
	26	Define clear roles and responsibilities among LGU staff and decision makers, but also between civil society and the private sector, so that all stakeholders contribute to DRR and resilience	/		
	27	Build up alliances and collaboration processes horizontally (across sectors and actors within the LGU and with neighboring cities) and vertically (across different political-administrative levels)	/		
	28	Have a clear operational framework to make collaboration possible	/		
	29	Approve codes and ordinances or revise existing ones to integrate resilience attributes	/		
	30	Have in place reporting mechanisms for all stakeholders that collect/process/ consolidate key information	/		
Thematic Area:		Disaster Preparedness	Yes	No	
Outcome 10: Increased institutional capacities of National and Local	31	Identify local capacities among different actors and agree on division of responsibilities. Secure effective communication so everyone knows "who does what"	/		PDRRMC, BALDRRMO
DRRM Councils and Offices	32	Strengthen local capacities to better understand the relevance of integrated responses, linking DRRM to climate change and sustainable development	/		
	33	Develop capacities and local know-how via training activities and knowledge exchange (within your P/C/M, with other P/C/M, with the private sector, etc.)	/		
	34	Develop a portfolio of project proposals that address different issues in your LGU and which are	/		with JICA



		ready for submitting to different funding opportunities			
	35	Share information and knowledge; work towards guaranteeing access and interoperability	/		
Thematic Area:		Disaster Prevention and	Yes	No	
		Mitigation and Disaster Preparedness			
Outcome 7: Disaster-resilient livelihoods and	36	Work with local actors to take into account their views/opinions on different development alternatives	/		with BALDRRMO, PDRRMC
businesses	37	Have secure mechanisms for	/		
Outcome 10:		participation in planning,			
Increased institutional		implementation and monitoring and evaluation processes			
capacities of	38	Support the work of community-	/		
National and Local		based organizations and local	,		
DRRM Councils and		NGOs (e.g., from work on housing			
Offices		and water and sanitation to			
Outcome 11: Strengthened	20	specific emergency response)	/		with MOA/MOU
partnership and	39	Target different groups and/or sectors, such as businesses and	/		and letter of
coordination among		industries, schools, professional			commitments
all key actors and		associations, CSOs, volunteers			from respective
stakeholders		and responders, etc.			orgs
Thematic Area:		Disaster Prevention and	Yes	No	
		Mitigation			
Outcome 6: Natural	40	Ensure appropriate legislation to	/		
received and		safeguard ecosystems and their			
resources and					
ecosystem integrity		protective functions, including			
ecosystem integrity are improved and		protective functions, including funding schemes for multiple uses			
ecosystem integrity	41	protective functions, including funding schemes for multiple uses and collaborative conservation	/		Coastal Law
ecosystem integrity are improved and	41	protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective	/		Coastal Law Enforcement
ecosystem integrity are improved and	41	protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other	/		
ecosystem integrity are improved and		protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat)			Enforcement
ecosystem integrity are improved and	41	protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue	/		Enforcement
ecosystem integrity are improved and		protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based			Enforcement
ecosystem integrity are improved and		protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local			Enforcement
ecosystem integrity are improved and		protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local			Enforcement
ecosystem integrity are improved and		protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land			Enforcement
ecosystem integrity are improved and		protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of			Enforcement
ecosystem integrity are improved and		protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of wetlands, estero ways			Enforcement
ecosystem integrity are improved and		protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of wetlands, estero ways preservation, river-basin			Enforcement
ecosystem integrity are improved and		protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of wetlands, estero ways			Enforcement
ecosystem integrity are improved and	42	protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of wetlands, estero ways preservation, river-basin management, etc.) Work in collaboration with neighboring LGU and broader	/		Enforcement Council (CLEC)
ecosystem integrity are improved and	42	protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of wetlands, estero ways preservation, river-basin management, etc.) Work in collaboration with neighboring LGU and broader administrative levels (e.g., region	/		Enforcement Council (CLEC)
ecosystem integrity are improved and	42	protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of wetlands, estero ways preservation, river-basin management, etc.) Work in collaboration with neighboring LGU and broader administrative levels (e.g., region or basin) to safeguard ecosystems	/		Enforcement Council (CLEC)
ecosystem integrity are improved and	43	protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of wetlands, estero ways preservation, river-basin management, etc.) Work in collaboration with neighboring LGU and broader administrative levels (e.g., region or basin) to safeguard ecosystems and their protective functions	/		Enforcement Council (CLEC)
ecosystem integrity are improved and	42	protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of wetlands, estero ways preservation, river-basin management, etc.) Work in collaboration with neighboring LGU and broader administrative levels (e.g., region or basin) to safeguard ecosystems and their protective functions Work in collaboration with CSOs to	/		Enforcement Council (CLEC)
ecosystem integrity are improved and	43	protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of wetlands, estero ways preservation, river-basin management, etc.) Work in collaboration with neighboring LGU and broader administrative levels (e.g., region or basin) to safeguard ecosystems and their protective functions Work in collaboration with CSOs to align their advocacies and the	/		Enforcement Council (CLEC)
ecosystem integrity are improved and	43	protective functions, including funding schemes for multiple uses and collaborative conservation Develop programmes to ensure all citizens understand the protective role of ecosystems (among other services) (i.e., Bantay Dagat) Consider green and blue infrastructure or nature-based solutions to enhance local resilience (e.g., plant boxes, rainwater harvesting, urban canopy, green parking, land conservation, protection of wetlands, estero ways preservation, river-basin management, etc.) Work in collaboration with neighboring LGU and broader administrative levels (e.g., region or basin) to safeguard ecosystems and their protective functions Work in collaboration with CSOs to	/		Enforcement Council (CLEC)



	45	Ensure that activities of sectoral plans in communities enable environmental safeguards to reduce effects of climate change	/		
	46	In partnership with NGAs, CSOs, and guided by the risk information, ensure investments and actions in sectoral plans contribute to environmental protection and does not exacerbate the vulnerability of communities	1		embedded in the local plans of the MLGUs such as CDP, CLUP
Thematic Area:		Disaster Prevention and Mitigation	Yes	No	
Outcome 3: Increased structural integrity of housing, building and critical infrastructure	47	Assess if current infrastructure is adequately designed, built and maintained to respond to current and future risk scenarios	/		adherence to national bldg. code, no build zone, conducts infra-audit
	48	Invest on priority infrastructures	/		Build Back Better
	49	Implement risk-sensitive development-based on standard guidelines (e.g., building code, zoning ordinances, etc.)	/		
	50	Have processes in place to ensure operability of critical infrastructure in the event of acute shocks or stresses (e.g., earthquakes and disease outbreaks). Have spare capacity (e.g., redundancy) to cope with a combination of risks	/		conducts structural analysis for 2- storey and up bldgs., traffic analysis for roads/bridges, has Bohol Tripartite Agreement
	51	Ensure that service providers understand disaster risk and the role of infrastructure in reducing current and future risks	/		
Thematic Area:		Disaster Prevention and Mitigation	Yes	No	
Outcome 2: Implemented risk- centered national, sub-national, and	52	Work on financial planning and definition of priorities to ensure that actions to build resilience receive support	/		budget hearing, assessments
sectoral policies, plans, and budget Outcome 5: Communities have	53	Earmark an annual budget for DRR and resilience – it can be distributed between different offices/sectors	/		
access to effective, responsive and	54	Develop an inventory of financing mechanisms and potential sources	/		
inclusive social protection, risk financing, and insurance	55	Ensure adequate financial support to vulnerable groups (e.g., via FbF, social protection, microfinance, etc.)	/		



mechanisms	56	Ensure that funds invested in response and recovery also include 'building back better' and pursue sustainable development	/		
Thematic Area:		Disaster Prevention and Mitigation and Disaster Preparedness	Yes	No	
Outcome 4: Institutionalized timely, responsive, context-and culture- specific early warning systems, reaching the last	57	Map out location of stakeholders. focusing on GIDAs and vulnerable populations (e.g., living beside fault lines or regular typhoon paths) Procurement, installation and maintenance of equipment and	/		with TOCONET,
mile Outcome Enhanced risk		facilities for early warning systems (Technical Assistance from DOST- PAGASA, DOST-PHIVOLCS)			DOST
awareness and risk- informed decisions and actions of governments and communities Outcome 12:	59	Have emergency plans/protocols in place with clearly defined roles and responsibilities for all local actors. Establish coordination mechanisms and assign resources where needed	/		DRRM PLANS, provincial and MLGU level
Implemented comprehensive and mutually-reinforcing national and local	60	Validate contingency plans/protocols with all local actors	/		updating; conduct of tabletop simulations
preparedness and response plans, policies, and system Outcome 13: Wellestablished disaster response operations	61	Communicate emergency plans/protocols and test them periodically (e.g., design regular drills according to type of emergency and vulnerable sector) and update if necessary	1		National Simultaneous Earthquake Drill (NSED)
with well-equipped workforce and volunteers Outcome 14: Appropriate early actions are provided	62	Have early warning systems (EWS) broadcasted to all citizens for effective and quick response through the conduct of Pre-Disaster Risk Assessments	1		NDRRMC, TaRSIER 117 text blast and system check (water and dam levels)
to communities Outcome 15: Accurate, reliable	63 64	Ensure availability of equipment and supplies Assess and evaluate response	/		,
and timely information	65	capacity to continuously improve it Maintain loss and damage	/		needs updating
management Outcome 16: Affected communities are provided with		database containing sex, disability, and age-disaggregated data			- Rapid Disaster Assessment and Needs Analysis (RDANA)



gender-responsive, and conflict- and culturally-sensitive basic necessities and services Outcome 17: Implemented an integrated system for early recovery	66	Have policy on voluntary, pre- emptive and forced or mandatory evacuation			Provincial Ordinance No. 2021-014: Prescribing the Guidelines in the Implementation of Pre-emptive or forced evacuation in the province of Bohol as a resort when a threat or hazard that can cause disaster or emergency is about to occur and danger of loss of lives and property becomes imminent.
Thematic Area:		Disaster Recovery and Rehabilitation	Yes	No	
Outcome 18: Clear policy directions for rehabilitation and recovery Outcome 19: Sustainable and socially-inclusive income sources for	67	With capacitated personnel at all levels (P/C/M/Barangay) in post-disaster damage and needs assessment and rehabilitation and recovery planning	/		Barangay Emergency Management Trainings (BEMT) conducted over 900 barangays out of 1109
households are made available and stability of economic activities is restored Outcome 20: Agricultural production is	68	Have sex and age disaggregated data (exposure, damage and losses)	/		partial (from OPSWD and PHO); BHWs conduct quarterly surveys in puroks
restored or increased and support services for farmers, fisher folks,	69	Have PDNA	/		underwent training but no actual PDNA conducted
and laborers are made accessible Outcome 21:	70	Conduct rehabilitation and recovery planning based on the post disaster needs assessment	/		done during the 2013 EQ
Affected families and individuals have access to: (a) affordable disasterresilient housing that are located in safe zones where social	71	Have a rehabilitation and recovery Plan based on PDNA with proposed budgetary requirements	/		have post EQ rehab & recovery plan with budgetary requirements but not based on PDNA

Local Disaster Risk Reduction and Management Plan Bohol Province



services and public facilities are available; or (b) financing assistance to rebuild their	72	Rehabilitation and recovery measures should reduce existing risk and prevent the creation of new risk	/	included in the policy measures at PDPFP and in DRRM Plan
houses in areas that are declared as safe zones. Outcome 22: Affected individuals, families, and communities have access to responsive, appropriate and adequate education, health, and social protection services Outcome 23: Disaster resilient standards in infrastructure are observed during rehabilitation and recovery	73	Consider green and blue infrastructure or nature-based solutions to enhance local resilience		found in the policy measures of the infra plan, PDPFP, CLUP



Annex 2: Bohol Province Ongoing, Planned Policies, and Activities

Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	ENERGY					
	individual households can make use of solar lamps, generators, and batteries as source of energies at home			X		
	Policy development in the promotion of renewable energy, solar energy					Х
	WATER SUPPLY: Increasing number of households with access to potable water supply				X	Х
LCCAP 2017-2023	use of water tankers, bottled water, tapping ground water sources from the municipalities, i.e. Corella to Tagbilaran City and Panglao Island			x		
	capturing surface water from the seven major watersheds in the province (from Bohol Integrated Water Master Plan)					x
	Cloud seeding and rainwater harvesting		Cloud seeding every year, as needed, continuing; for long droughts; depends on agricultural	Х	Х	Х



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
			assessment; status of dams NIA [Malinao, Zamora, Capayas, Talibon)			
			Rainwater harvesting (existing rainwater collectors in island and coastal barangays			
	In case of disruption of drinking water supply, boiling/chlorination of surface water can be done		ongoing	х		
	The latest development in Bohol is to adapt the small water impounding initiatives (Small farm reservoir / SFR) to the farmers which can even provide water during drought with an area of 2 hectares or less depending on the size of the reservoir of impounding	•	ongoing c/o OPA, for expansion Existing 3 units of solar- powered potable water desalination systems + 5 units for procurement (there are many island barangays in need of	X	X	X



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
			potable water) • Purchase of mobile water treatment units			
	Establishment of model fie0lds or farm in maximizing run-off water and catchment (proposed)					
	(Cistern-type) roof top water harvesting to be made mandatory to deal with water stress due to anticipated increasing temperatures and decreasing precipitation For PPAs: to include water harvesting for other municipal buildings; in Bohol recovery plan, state-of-the art ECs per municipality		Ongoing c/o DPWH, for all school buildings; existing units for some municipal buildings)	x		
	Interventions on natural farming methods (continuing, regular program) and with appropriate technology and integration of DRR-CCA plans thru capacity building and IEC on the use of organic farming system e.g provision of drought or flood and saline tolerant or resistant crops and seeds that could withstand La Nina and El Nino; mulching and used of organic inputs i.e vermi-culture/organic fertilizers and bio-pesticides			x	x	x



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	Promotion of organic aquaculture and use of high resistant freshwater species (continuing, regular program)			х	х	x
	Integration of agro-forestry to agricultural crops and livestock (continuing, regular program)			х	х	х
	Adopt crops and livestock insurance system (continuing, regular program)			х	х	x
	Adopt backyard farming for added household food security; urban agriculture (continuing, regular program)			х	x	x
Bohol Climate Emergency	PILLAR 1. ENHANCING ACCESSIBILITY					
Response Roadmap 2021- 2030 (to support small islands and coastal	MEASURE 1. ENSURE SAFE SEA TRANSPORT FOR EMERGENCY AND REGULAR TRANSPORT SERVICES FOR THE PUBLIC					
communities vulnerable to tidal floods and sea level	Provide life vests in every home or per vessel					
rise)	Push for ordinance requiring wearing of life vest for all sea travel For PPAs: For consideration under Prevention and Mitigation			Х		
	MEASURE 3. GIVE ACCESS TO COMMUNICATION GADGETS					



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	Request telecom companies to put up cell sites in strategic areas		ongoing			
	Equip all municipal LGUs with satellite phones, and barangays with other important communication gadgets (e.g., handheld radios) – funded by LGUs or external support, if funds are available			X	X	х
	PILLAR 2. HUMAN SECURITY					
	MEASURE 1. CAREFULLY CONSIDER THE CARRYING CAPACITY OF THE ISLAND AND OTHER BASELINES TO SERVE AS BASIS OF INTERVENTIONS, PARTICULARLY INFRASTRUCTURE DEVELOPMENT					
	Regulate infrastructure building on top of sinkhole areas		Ongoing – 2/3 of Bohol with vast sink hole areas; province to study, component LGU to regulate (zoning ordinance and enforcement)	X	Х	Х
	MEASURE 2. INCREASE COMMUNITY PREPAREDNESS AGAINST EVERY HAZARD					
	Designate an evacuation center for island dwellers within the island and on the mainland. Ensure that these are not located in hazard-prone areas		on-going among LGUs; resettlement is responsibility of city/municipal LGUs	Х		



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	Establish hazard-based EWS in the island communities (c/o LGUs)			Х	Х	Х
	Have contingency plans, including evacuation plans for island dwellers	done already; led by city/municipal LGUs				
	Research to determine potential impacts of sea-level rise	done already by Manila Observatory in Tubigon's island barangays, could be applied to other island barangays in other municipalities		х		
	Request MGB to conduct an evaluation of all island communities for a more detailed assessment (sinkholes)	Calape, Panggangan Island		Х	х	
	Improve the design of all public schools to enhance resilience in allowable areas Note: construction in island communities identified as no-build zones discouraged; there are LGUs with no resettlement sites concern: there are LGUs that do not enforce their zoning ordinance (PLGU could only guide)					
	Construct multi-purpose covered courts and evacuation centers in "allowable areas"					
	MEASURE 3. PROVIDE BASIC COMMUNITY SERVICES Provide basic medical supplies and					
	services (medicines, medical equipment, etc.)			X	X	X



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	Note: integrate DRRM-H in the LDRRMP (as advised by the DILG); take advantage of the Mandanas ruling to allot local funds for DRRM-H					
	Provide sea emergency vessel (sea ambulance); ensure that mechanism for maintenance/repair is installed	DOH provided two units of sea ambulance but these were poorly maintained		Х	Х	
	Have food banks/food reserves ready for potential food relief (Continuing)			X	X	X
	MEASURE 4. ESTABLISH COMMUNITY-BASED EARLY WARNING SYSTEMS AND PROTOCOLS					
	Install early warning systems and monitoring devices (to be included in the LDRRMP); with existing PAGASA warning system based on data from radar, rain gauges (installed in Loboc and Inabangga)			х	х	
	Have contingency plans ready, organized by hazard, by island barangay (continuing for tsunami CP: Valencia and Duero)			Х	Х	
	Train communities on contingency plans (c/o C/MLGUs)					
	MEASURE 5. SET UP APPROPRIATE INFRASTRUCTURE AND NATURE-BASED SOLUTIONS BASED ON SOUND RESEARCH.					
	Construct seawalls, complete the existing ones (subject to feasibility) c/o DPWH			Х	Х	X



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	Plant more mangroves (subject to study)		ongoing	Х	Х	Х
	Build evacuation centers. (Subject to study. Good design and water capture capability must be integrated in the design.)					
	Acquisition of renewable energy systems to power essential infrastructures: for water systems, ongoing rehabilitation of hydropological power plants in Soville.			X	Х	X
	electric power plants in Sevilla, Balilihan, Loboc c/o NDRRMF For adoption in the LDRRMP) MEASURE 6. SET UP					
	APPROPRIATE INFRASTRUCTURE AND NATURE-BASEDSOLUTIONS BASED ON SOUND RESEARCH					
	Promotion of renewable energy use in the islands; with feasibility study in the southern part (Ubay-windmill and solar; Panglao-windmill, Jagnawindmill)					
	PILLAR 3. WATER SECURITY MEASURE 1. IMPROVE ACCESS TO SAFE WATER					
	Build rainwater harvesting tanks and structures					
	Design community facilities with water storage capacities Protect and inspect/test water wells					
	(i.e. sealed, fenced) to ensure water does not become contaminated after a disaster (on-going)					
	MEASURE 3. ASSESS AND DESIGN ISLAND'S					



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	GROUNDWATER RESOURCES PROTECTION					
	Plan for groundwater protection from salt water intrusion With provincial ordinance, need to ensure full enforcement PILLAR 4: FOOD SECURITY AND					
	INCOMES MEASURE 2. DEVELOP APPROPRIATE ALTERNATIVE LIVELIHOOD / ENTERPRISE DEVELOPMENT PLANS FOR ALL ISLAND BARANGAYS					
	For farm areas affected by saltwater intrusion, consider converting to fishponds (no data, no local study, for confirmation with DA and BFAR if they have a study)					
	Have a typhoon/storm surge early warning system/dissemination protocol for island livelihoods (e.g., fish cages, seaweed farming)					
	MEASURE 3. ESTABLISH SOCIAL PROTECTION MEASURES AGAINST LOSSES AND DAMAGES BROUGHT ABOUT BY CLIMATE HAZARDS.					
	Place insurance coverage of crops, animals, common facilities, fishing boats/gears, guso farms, and homes (ongoing)					
	Set up climate information services for agriculture and fisheries as early warning for the sector	PAGASA already has an existing information system; LGU could monitor				



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
		and disseminate information to farmers				
	-Prioritize islanders in cash transfers program		c/o DSWD/OPSWD – ongoing (after a disaster)			
	PILLAR 6. KNOWLEDGE MANAGEMENT					
	MEASURE 1. INTENSIFY IEC ON CLIMATE CHANGE, SEA LEVEL RISE, AND EARLY WARNING RISK INFORMATION.					
	Establish IEC on CC and risk management solutions	DENR, LGUs have published and distributed materials; DPWH has installed markers				
	Create IEC on nature-based solutions to CC, importance of biodiversity		DENR, BEMO does IEC for coastal communities			
	Gather and update age, disability, and sex-disaggregated data on the population impacted by climate change (ensure inclusion of vulnerable groups: senior citizens, children, pregnant women, persons with disability, solo parents, indigenous peoples, etc.)					
PDPFP	Policies and Plans P&M: DRRM/CCA is one of the components of Bohol's overall development framework					х
	Three pillars of development					



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	P&M: Development, enactment, and implementation of Ecological Solid Waste Management (ESWM) Policy in 8 LGUs					х
	P&M: Development, enactment and implementation of DRRM-CCA ordinances (ordinance / policies for the reduction of emissions of greenhouse gases, reversion of abandoned fishponds back to mangroves, water conservation, incentives for use of reusable bags/ biodegradable bags, incentives for use of climate-smart technologies/ energy efficiency in buildings, agriculture, and industries, build up restrictions in hazard-prone areas, protection of critical facilities, etc.) (Continuing)			x	x	x
	P&M: Strict implementation and enforcement of laws, policies & Fire Safety Regulations; fire Safety Inspection among public and private establishments, institutions and buildings (Continuing)			x	x	х
	P&M: Review / updating of the all-hazard Contingency Plan for the Province of Bohol			for updating		
	P&M: Technical assistance in mainstreaming DRR-CC in the updating of CLUPs, CDPs of covered cities/municipalities (Updating)			for updating		



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	P&M: Assistance to barangay and purok planning integrating DRRM-CCA strategies (c/o C/MLGUs)					
	P&M: Review and updating of the LDRRM and Contingency Plans of covered cities and municipalities	Done already				
	P&M: Contingency planning at the barangay level (municipal level only)					
	P&M: Formulation of a Disaster Response Operations Manual (DROM) (for inclusion in the LDRRMP)					
	Research, Risk Assessment, and Date Base Development/ Management (for inclusion in the LDRRMP)					
	P&M: Provincial-wide geohazard survey & assessment (Vulnerability Risk Assessment) (for updating)					
	P&M: Coastal geohazard & impact of climate change field mapping & survey (part of the updating)					
	P&M: Conduct of workshop for the updating of databases on hazard/risks in the LGUs or barangays (c/o C/MLGUs with the guidance of province)					



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	P&M: Conduct feasibility study of the Bohol Comprehensive Integrated Flood and Drainage System Master Plan in provincewide (with DPWH)					
	P&M: Provincewide organization, strengthening and setting-up of Database for community disaster volunteers (for updating; for accreditation by OCD, with guidelines already)					
	Early Warning Systems (for flooding)			х		
	P&M: Establishment of early warning system in all municipalities of the Province		ongoing for flood, landslide not yet conducted			
	P&M: Development of Early warning System (EWS) in Loboc Basin, Inabanga Basin, Abatan River, and Tagbuani River	installed				
	P&M: Enhancement of Early Warning System for Livestock (Warning dissemination to livestock farmers only)					
	P&M: Installation of hazard warning signs Early warning system components: risk knowledge, monitoring and warning service, dissemination/communication, response capability					
	dissemination/communication, response capability Structural Measures					



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	P&M: Construction of resilient and standard-compliant evacuation centers in each of the 3 districts of Bohol	Ubay, Tagbilaran, Tubigon, Albur, Loay) - COPLETED				
	P&M: Improvement and retrofitting of existing government structures and facilities in Tagbilaran City	Provincial highways and bridges, national highways and bridges rehabilitated/retr ofitted; old capitol and churches retrofitted by the National Historical Institute, schools retrofitted by Provincial School Board/DepEd				
	P&M: Construction/Maintenance of Flood Mitigation Structures and Drainage Systems in District 2	done (Inabanga, Dagohoy, etc.)/ongoing (Ipil River, Buenavista)				
	P&M: Construction and maintenance of flood control/seawall protection in District 3	Loay, Garcia, Jagna constructed;	Lila ongoing			
	P&M: Construction of Bohol Northeast Basin Multi-Purpose Dam Project		Ongoing in Ubay			
	P&M: Enhancement of Malinao Dam and other Irrigation Facilities	done				



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	P&M: Construction communal irrigation systems (CIS) and rehabilitation/ restoration of existing CIS	done				
	P&M: Construction of small reservoir impounding and irrigation projects (SRIP) in 8 municipalities:	Calape, Tubigon, Buenavista, Mabini completed				
	P&M: Construction/drilling of 2-deepwells at Tiptip and San Isidro c/o Tagbiliran City LGU					
	P&M: Establishment/use of rainwater collection					
	P&M: Construction or activation of Fire Stations in 17 municipalities	14 completed				
	P&M: Rehabilitation/ Upgrade of the Southwestern Sea Wall, (Bagongbanwa,Tubigon by 2016) -	completed				
	Measures Related to Environmental Protection and Management and Water and Food Security -					
	P&M: Mangrove planting		ongoing			
	P&M: Establishment management of new and existing Marine Protected Areas (MPA) in coastal municipalities)		ongoing (282 MPA			
	P&M: National Greening Program (rehab. of open and denuded forestland in Bohol) –		ongoing (PENRO)			
	P&M: Proposed Bohol Water and Sanitation Project (BWSP): • Bulk Water Supply Project • Water Distribution and Sanitation Project –		with feasibility study; clustering of			



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
			water sources ongoing (8 clusters) private-led Coastal sewerage – with proposal			
	P&M: Establishment of renewable energy sources as ancillary support for existing power requirements (Ubay: solar, Jagna: wind, Alicia:solar)					
	P&M: Promotion of backyard farming and urban agriculture -		ongoing			
	DRRM Institutional/Organizational Structure and Coordination					
	P: Provincewide provincial DRRM Office establishment, staffing and operation – ongoing		ongoing			
	P: Assistance to LGUs in establishing, organizing their respective emergency response units ongoing		ongoing			
	P: Establishment of Barangay/ purok-based DRRM teams BDRRMC					
	P: Setting –up of Satellite TaRSIER 117 stations in various municipalities	completed				
	P: Establishment of BFP Emergency Medical Services and Special Rescue Unit Program - completed	completed				



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	P: Organization of volunteer fire brigade – completed c/o LGUs	Completed c/o LGUs				
	P: Conduct of regular meetings of the PDRRMC - completed					
	P: Provincewide constant sharing of information among LDRRM offices and partners thru regular meetings, conferences, summits	BALDRRMO organized				
	P: Coordination activities with LGUs for the enactment of legislative measures promoting fire safety and prevention –	completed (yearly provincial fund allocation)				
	P: Development and implementation of hazard pay or insurance system for employees handling hazardous jobs –		lobbied for hazard pay but magna carta not yet enacted; with insurance for responders			
	Awareness Raising Initiatives					
	P: Provincewide information, education and communication (IEC)/DRRM Summit/ Fora -		ongoing			
	P: IEC on the different hazards and risks in the Barangays/ municipalities (as applicable) -		ongoing			
	P: IEC on laws governing DRRM-CCA, allocation and utilization of DRRM Fund					
	P: Conduct of information education campaign on fire prevention		ongoing			
	Community-Based Risk Assessment					
	P: Province-wide Community hazard, risk and vulnerability assessment not done					
	P: Province-wide community risk					



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	and hazard mapping not done P: Preparation (by technical agencies)/updating and dissemination of risk and hazard maps at the community level updating needed			X		
	Development of a DRRM-CCA webpage within the provincial government website – to be included in the LDRRMP			X		
	P: Provincewide capacity development on DRRM		ongoing			
	P: Provincewide conduct of trainings, like Basic Life Support, Water Search and Rescue, Incident Command System, others		ongoing			
	P: Provincewide Strengthening of Bohol Association of LDRRMOs thru trainings, seminars, conferences		ongoing			
	P: Provincewide conduct of orientation and workshops on DRRM based on RA 10121 including climate change mitigation and adaptation to the different stakeholders, CSOs in DRRM		ongoing			
	P: Provincewide Forge agreements/Memorandum of Understanding or Agreements with the CSOs, LGUs, academe and other business sectors, to formalize their commitment for DRRM		ongoing			
	P: Provincewide orientations of LGUs on the activities and services provided by TaRSIER 117		ongoing			



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	P: Conduct community-based DRRM orientation/ training at the barangay/Purok/household level (Visayan version training modules)	completed; Phase 2 for inclusion in the LDRRMP				
	P: Conduct of DRRM preparedness/ emergency management trainings, and drills, including training on CPR and introduction on the importance of survival kits in every household -		ongoing			
	P: Conduct of training for trainers for contingency planning –	completed with OCD as RP; ToT for province to be included in the LDRRMP				
	P: Conduct relevant trainings for the members of the Task Force Dagon - Task Group Luwas-Kinabuhi, disaster-response teams and other volunteer groups		ongoing			
	P: Trainings, seminars and workshops on DRRM to accommodation facilities and tourist land transport facilities -		ongoing			
	P: Trainings, seminars and workshops pertaining to the Principles of Carrying Capacity and Waste Management to facilities and tourist land transport facilities		Ongoing among the members of the tourism sector			
	P: Conduct of drills, simulation exercises		ongoing			
	P: Procurement of additional ambulances for the expanded TaRSIER 117 stations, hospitals and upgrading of other rescue equipment in 3 municipalities P: Acquisition of fire trucks		ongoing			



Plan	Output / Activities to reflect into LDRRMP	Completed	Ongoing	Short Term 2023-2025	Mid Term 2026-2028	Long Term 2029-2031
	not acquired; water trucks to be procured instead					



Annex 3: Bohol's SWOC-PESTEL Analysis

Identification of Strengths, Weaknesses, Opportunities, and Challenges

Prevention and Mitigation

Table 1. Strengths, Weaknesses, Opportunities, and Challenges in Prevention and Mitigation

Internal Env	rironment
Strengths	Weakness
 Organizational Active participation PDRRMC members chaired by the Governor Very supportive Local Chief Executive and Legislative Members in providing a regular budget for the PDRRMO operation 	Organizational Some PDRRMC Members lack DRRM related trainings
Planning and Policy Development and Implementation All coastal municipalities have ICRM Plans and Ordinances and are integrated into the CLUP (30 coastal municipalities) • Presence of PDRRM and LCCAP Plans and mainstreamed to PDPFP • Bohol Island Power Development Plan (BIPDP) • Bohol Integrated Water Supply System Master Plan (BIWSSMP) • Updated Bohol Environment Code • PGBh website (governance transparency) • Presence of Provincial Development and Physical Framework Plan and other Development Plans • Updated Mandatory Local Codes (i.e., Revenue Code, Investment Code, Children's Protection Code, Tourism-Environment Code, Bohol Arts, Heritage Code, etc.) • Operation of the Provincial Economic Enterprise Management Unit Approved Provincial Local Road Network Development Plan • Existing African Swine Fever Ordinance Amended EO on Bird Flu • Access to the Building Code in checking the structural integrity of buildings • Available funds for DRR/CCA policy enforcement and construction of Evacuation Centers as temporary relocation shelters for the displaced population	Planning and Policy Development and Implementation DRR and CCA are not yet fully integrated into local development plans and policies, as well as environmental plans, policies, and programs. Zoning ordinances are not strictly enforced. The CLUP and CRM plans need updating Not all municipalities have updated ICRM plans For updating Not all LGUs have approved the 10-yr EWS Plan: 13 LGUs



Internal Env	ironment	
Strengths	Weakness	
Availability/Updated hazard maps with a database on vulnerability, exposure, and capacity MGB conducted an assessment of the areas heavily affected during the 7.2 M earthquake using GPR and findings and recommendations were turnover to the Provincial Government	Risk Assessment Need to capacitate the staff (Provincial/City/Municipal) in the updating of hazard maps and database management (vulnerability and exposure) including age-gender disaggregation of the population at risk. Technical Capacity of PDRRM Staff needs further enhancement/improvement (ex. REDAS, GIS) Lack of capacity to assess natural hazards in terms of frequency, intensity, and impact and analyze risk	
Linkage Established strong ties with the national agencies, private sector, and academe PDRRM strong communication link with PAGASA, PHIVOLCS, MGB and MLGUs		
 Functional and presence of Early Warning Systems (EWS) – Development of Early Warning System for Landslides (DYNASLOPE of DOST – focus on landslides TOCONET Korea (Loboc and Inabanga Rivers) – focus on flood forecasting Existing Automated Rain Gauges (ARG) – Bilar, Dauis, Mabini, Talibon, and Balilihan Partnered with A2D (Alternative to Development) – will install 15 ARGs (Inabanga, Candijay, Loboc, G. Hernandez, Anda, Albur, Cortes, Tubigon, Batuan, Ubay, Antequera, Sevilla, Loon, San Miguel, Pilar) and 4 automated weather stations (Tagbilaran, Carmen, Talibon, Pres. CP Garcia) Conduct of Crustal Deformation Survey (GPS Survey) yearly – to detect the direction of the ground and displacement to 5 Benchmark sites: Ubay, Alicia, Lila, Tagbilaran (continues 24/7; all-year round), Inabanga Available budget for Ground Penetrating Radar Operational DOPPLER in Alburquerque Existing Unmanned Seismic Station – G. Hernandez and Talibon Existing and functional Strong Motion Sensor – Clarin, Loboc, and Jagna 	No scientific tools and technology in monitoring and projecting the impact of hazards The projecting is a scientific tools and technology in monitoring and projecting the impact of hazards The projecting is a scientific tools and technology in monitoring and projecting the impact of hazards The projecting is a scientific tools and technology in monitoring and projecting the impact of hazards The projecting is a scientific tools and technology in monitoring and projecting the impact of hazards.	



Internal Env Strengths	Weakness
Existing and functional Automatic Intensity	Weakiless
Meter – Talibon and Tagbilaran	
 On-going construction of dikes, seawalls, and among others Establish a protection zone to buffer the works during the construction stage Flood diversion channels Development of small water impounding affordable to the LGU (e.g., covering 2-3 hectares); especially on the rice lands The Provincial Government is fortunate to have many interventions on road governance reforms e.g., DOT-DPWH-PGBH Convergence projects; DA-WB-PGBH PRDP projects (roads, bridges, water desalination, livelihood/enterprise, seaweeds production and facilities, marine protection, slaughterhouse, Bohol dairy, virgin coconut oil facility); CMGP KALSADA; DAR-DPWH bridge projects; Bohol Earthquake Assistance (BEA) projects; Provincial Roads and Tourism Highway Development Completed School Buildings implemented by the Provincial Government, DepEd, and the DPWH Surface water development to increase water supply Establish road embankment protection Existing Water Desalination Plants in Pamilacan Island in Baclayon, Pandanon Island in Getafe, Cuaming Island in Inabanga, Cabilao Island in Loon Private operated sewerage plant in Dauis Imposition of hazard-resistant building design regulation for areas prone to hazard. Construct risk mitigation structures to protect important urban land use areas. Establish road embankment protection Compliance with the standard design with hazard resistance, specification, and other requirements for roads, bridges, buildings, and ports. Upgrading transport systems and facilities with hazard-resistant design 	Infrastructure Poor siting and design cause failure the construction of critical and lifelin facilities (power and water distribution lines) Not properly following the policy of infrastructure which is embodied in the Municipal Zoning Ordinance Some roads in the province are expose to different hazards like the groun shaking, liquefaction, rain, an earthquake-induced landslide and tsunami Lack of road safety devices causes high rate of accidents on both nation and local roads Need improvements of Drainage Syste of all National and Local Roads. Retrofitting of buildings and othe structures is not properly practiced an implemented Encroachment of private properties such as residential houses, stores, and concrete fences in the Road-Right-C Way Weak enforcement of road easement to the MLGUs Absence of drainage and sewerage system

 Culture of the affected families are hesitant to occupy because they are not comfortable in the location due to its



Internal	Environment
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Most of the LGUs have identified relocation/resettlement sites in the approved CLUP

- Safe relocation and resettlement for populations living in high-risk areas
- Local enforcement of DRR/CCA measures and appropriating funds thereof
- Existence of the following documents can guide in the planning of affected areas of the potential impact of climate changes and hazard risks for possible relocation and resettlement sites: a) Disaster Risk and Vulnerability Assessment for Bohol Province and b) Bohol/Municipal Hazard Maps
- Weakness
 distance which is difficult for them to access livelihood opportunities
- Some municipalities have no shelter plans for families that will be relocated from the high-risk areas
- Increasing urban population
- Still high population growth rate with implications on settlement patterns and services provision
- Continued growth of informal households and settlements: more settlements are seen occupying danger areas such as along riverbanks, creeks, road-right-ofway, shorelines, and waterways.
- High cost of land in urban and urbanizing areas: insufficient basic infrastructures, inappropriate urban planning, and the appearance/in-flux of slum-like settlements especially along its coastal and river systems and in some parts of Bohol's protected areas
- Possible displacement of the vulnerable population especially in hazardous/dangerous areas and as a consequence of the impact of climate change

Livelihood and Business Protection

- Livelihood for populations living in the resettlement areas
- Implementation of Small and medium-scale enterprises including capitalization to start up the business
- Regular monitoring of the business enterprise and facilities to ensure the safety
- Bohol Economic Development and Investment Code in the New Normal

Livelihood and Business Protection

- Low entrepreneurial mindset and skills
- Less competitive business environment of some LGUs
- Inadequacy of employment opportunities.

Environmental Protection/Management

- Implemented Forest Management, coastal resource management, marine protected areas, and river protection
- Green building structures to minimize the use of power – Municipalities adopting it (cisterns, roofing, solar-powered buildings,); some Church, Hotels, School Buildings, and Private Houses are adopting this also
- River bank stabilization through greenbelts or planting of ornamental plants and deeprooted trees
- Reforestation program
- Mangrove Tree Planting

Environmental Protection/Management

- Encroachment of building structures within the shorelines and riverbanks -
- Weak implementation of existing ordinances and laws e.g. Water Code of the Philippines (40m for timberland, 20m for agriculture, 3m for urban areas; 20m for salvage zones in coastal areas) National Building and among others
- Implementation of zoning policies (particularly the "NO BUILD ZONE) is not strictly followed as such there are still many families living along the riverbanks/waterways



	ACIAL SER			
Internal Environment				
Strengths	Weakness			
 Improve groundwater recharging system Local monitoring of groundwater extraction Ongoing efforts to obtain an ancestral domain and settlement land for Bohol's IPs 	 Soil erosion in upland areas and river banks, forest denudation, siltation of river banks Recurrence of Red Tide Unregulated water use: no water permits in the extraction of groundwater 			
Food Security	Food Security			
 Presence of early warning systems for agriculture and fisheries Financial services and micro-insurance for farmers, fishers, livestock producers Promotion of urban agriculture and natural farming system ART 160 and ART 120 Backyard farming for added household food security insurance system Use of natural farming methods Promotion of Organic farming practices Bohol Organic Agriculture Technology Center Strict implementation of Provincial/Municipal Ordinances (e.g. Non-burning of rice straws, Organic Code, Environment Code) 	Low agriculture and fishery productivity Depletion of soil fertility due to excessive inorganic farming practices Decreased area for agricultural use due to exposure to hazards			
 Cultural Heritage Bohol Arts and Culture Heritage (BACH) Code BACH Council (Provincial Ordinance No. 2001-017) Center For Culture and Arts Development (CCAD) Office within the Provincial Government of Bohol (Provincial Ordinance No. 2000-031): Among them are the following: 9 Declared National Cultural Treasures 5 Declared Important Cultural Properties 6 Declared National Historical Landmarks 2 Declared Cultural Heritage Houses 	Cultural Heritage • Cultural heritage is affected by primary risks, that is, direct damage from the natural disaster and climate changes, and, also threatened by secondary risks that arise during recovery and reconstruction			

External Environment			
Opportunities	Challenges		
 Political Implementation of Mandanas-Garcia Law Convergence from NGAs (DPWH, DSWD, DOST, DOT, DILG, etc.) for technical and financial support 	Political Implementation of the Devolution Transition Plan		
Economic and Infrastructure			



External Environ	ment
Opportunities	Challenges
 Intensified/ heightened awareness of DRR CCA coming from national and global organizations/ agencies Presence of funding donors (foreign, national, and Private) 	
Linkage External funds (from the National Government and ODA) are available and can be accessed Technical assistance and expertise for reconstruction/ improvement/rehab. of cultural properties/assets are available Strong link with cultural agencies such as NCIP, NCCA/ National Museum, NHIP, and other cultural groups	
 Technological Access to state-of-the-art technology (communications, warning systems, etc.) Partnership with external institutions for science, research, and technology to the national, foreign, and private sector 	Technological Unavailability of technical experts for the conduct of vulnerability assessment
 Environmental Policies PD 856 - Sanitation Code of the Philippines RA 9003 - Ecological Solid Waste Management Act of 2000 RA 9275 - Philippine Clean Water Act of 2004 	 Environmental Policies Presence of a mining area near the watershed area Climate change (changing rainfall patterns, rising temperature, frequency of typhoons) Pests and diseases

Disaster Preparedness

Table 2. Strengths, Weaknesses, Opportunities, and Challenges in Disaster Preparedness

Table 2. Strengths, Weaknesses, Opportunities, and Challenges III Disaster Preparedness		
INTERNAL ENVIRONMENT		
Strengths (Internal Analysis)	Weaknesses (Internal Analysis)	
Capacity Development Conduct drills, and training on disaster preparedness Some of the barangays had provided orientation		
 and training to BDRRMCs Well-trained PDDRMO personnel with high-tech equipment and facilities with international standards 		
 Capable to conduct training in the use of QGIS software 		



INTERNAL ENVIRONMENT	
Strengths (Internal Analysis)	Weaknesses (Internal Analysis)
 Visayan/Boholano version of DRR-CCA Training modules 	
Use of information platforms to disseminate accurate risk information to the communities Readily available Bohol Hazard Profile and Vulnerability Assessment Report Information Technology A well-maintained network of computers, servers,	Information Technology Aging computers run slow and can
 A well-maintained fletwork of computers, servers, and equipment, with a file backup system Budget support for upgrades, and maintenance PPDO local network domain established with network shared resources Free Open-Source Software available for IT Infrastructure and Workstations Systems and Applications Strong Internet connection provided by PLDT through BICTO PPDO Website established for general information and data sharing Geographic Information System Personnel trained and able to operate basic GIS Free Open-Source Software (QGIS) is available and installed in every PPDO computer Thematic and Hazard map themes provided by concerned national agencies Computer system and Internet connection sufficient in GIS operations Online Geo-Database under development as a platform for collaborative GIS data build-up and sharing 	 Aging computers run slow and can hamper productivity Workstations are mostly running on pirated systems and productivity suite Unstable power supply cause work stoppage and damages computer components Very few workstations have power backup systems, and if any, are way past their serviceable life and failing Occurrence of Internet connectivity failures due to Service Provider faults Only basic GIS operation capabilities Some operations may well be performed on proprietary software which is not available Overwhelmed by client demands No time to update training modules, and conduct training due to heavy workloads Discrepancies and inaccuracies in some official data (from national agencies) Need updates on old and perhaps obsolete thematic data
 Operations Upgrading of evacuations centers with complete sanitation/hygiene facilities, standby power, water, and food packs Regular maintenance of rescue facilities and equipment Very efficient and effective TARSIER 117 with suboffice to other municipalities Presence of PDRRMO inter-cluster coordination Readily available frontliners/responders services (Health, PDRRMO, DSWD, OPSWD, PNP, BFP, 	



INTERNAL ENVIRONMENT		
Strengths (Internal Analysis)	Weaknesses (Internal Analysis)	
 DRRM in Education Disaster Risk Reduction Management is mainstreamed in the public school's curriculum 		
	Social Lack of family knowledge on the preparedness	
Environmental Protection and Management Existing Policy on the 20-meter salvage zone (no build zone along salvage area) throughout the coastal municipalities designated as shore/environmental protection	Environmental Protection and Management Non-implementation of the 3 (urban) 20 (agricultural), 40 (forestland and riverbanks)	

EXTERNAL ENVIRONMENT		
<u>Opportunities</u>	Challenges	
Political (Governance) Continued support from partner agencies (national: DILG, OCD, DPWH, etc. foreign and private sector	Political (Governance) • Change of directives/ priorities of every elected official	
	Health ◆ Covid-19 pandemic	
Technological ■ Use of Free Open-Source Software on Systems and Applications to reduce the cost of software and focus expenditures on hardware	Technological	
■ Presence of national laws e.g RA 10121, RA 7929, Water Code of the Philippines, Sanitation Code of the Philippines, Fishery Code, National Hand Use Act, and among others	Legal ■ Not strictly implemented and enforced	



Disaster Response and Early Recovery

disasters)

Table 3. Strengths, Weaknesses, Opportunities, and Challenges in Disaster Response and Early Recovery

INTERNAL ENVIRONMENT	l vac
Strengths	Weaknesses
 Logistics Presence of Irrigation Projects (NIS, SRIP, CIS) Water Development Program Port Development Water harvesting tanks 	
 Emergency Response Organized and trained responder teams (medical, rescue and evacuation, and relief) Provision of incentives for volunteers and responders Availability of LDRRMC Standard Operating Procedures on disaster response 	Medical and veterinary personnel during disaster response are not enough Delayed procurement of supplies medical equipment, and medicines Lack of capacity to respond to subsequent disasters
EXTERNAL EN	VIRONMENT
Opportunities P-E-S-T-E-L	Threats P-E-S-T-E-L
 Linkages and Partnership Partnership with the private sector for relief operations Assistance from the National Commission and Indigenous People to restore the dilapidated churches and government buildings External funds (from the National Government and ODA) are available and can be accessed Strong link with cultural agencies such as NCIP, NCCA/ National Museum, NHIP, and other cultural groups 	
 International Policies Policy on international humanitarian intervention (especially for large-scale dispaters) 	



Disaster Rehabilitation and Recovery

Table 4. Strengths, Weaknesses, Opportunities, and Challenges in Disaster Rehabilitation and Recovery

INTERNAL ENVIRONMENT		
Strengths	Weaknesses	
Skill training for alternative sources of livelihood Access to financial services and micro-insurance for MSMEs to affected families		
	Housing and Settlements Limited funding for housing programs Need to come up with comprehensive housing projects for displaced families	
	Infrastructure ■ Funds allocated for the LDRRM to maintain infrastructure e.g. roads and bridges, water, and power are not sufficient	

EXTERNAL ENVIRONMENT		
Opportunities P-E-S-T-E-L	Threats P-E-S-T-E-L	
Political (Governance) Support from NGAs to expedite rehabilitation and recovery programs Approved Bohol Earthquake Assistance (BEA) Plan with funding from the national agencies	Political (Governance) Limited support to rehabilitate the degraded ecosystems	
	Economic and Infrastructure • Absence of data on damages as no PDNA was conducted	



Annex 4: DRRM Measures Per Thematic Area

	Thematic Area:			Pre	vention and M	litigation				
		Actions specific to the province/ actions that the	Short Term Target		C	Output / Timeframe		Office/s Responsible	Partner Agencies	
	Hazard	province can do for the component LGUs	(2023-2025)	PPAs	2023	2024	2025			
1				Updating of CDRA & Hazard Maps					0.007	
2		Province as lead in updating CDRA in partnership with C/MLGUs	Province as lead in updating CDRA in partnership with C/MLGUs	n updating Hazard Maps	lead CDRA Plan & Risk assessment study collectively revi	study collectively reviewed and modified based on	Risk assessment study collectively reviewed and		PPDO, PDRRMO, MEO, MPDC, MENRO	OCD7, PHIVOLCS , PAG- ASA,
3					Conduct necessary training/seminars		modified based on current			DOST, DENR,
4				Implementation & enforcement of updated CDRA	current situation in 28 C/MLGUs	situation 20 C/MLGUs	MENRO	MENRO	DPWH, MGB, DHSUD	
5				Conduct On-site Survey						
						Activation of BDRRM Committees/ personnel				
6				Barangay Training on Risk Information	Integrated GIS in risk assessment and barangay profiling			PDRRMO, PPDO	OCD, MGB, MDRRMO, DILG	



		Review/Updating of the eLCCAP, Contingency Plan, Risk Communication Plan, PSCP	Review/Updating of the eLCCAP, Contingency Plan, Risk Communication Plan, PSCP	PDRRMO	OCD VII
		Continued dissemination of updated LDRRM Plan, eLCCAP, Contingency Plans and other plans to all stakeholders including BALDRRMO and PDRRM Council	Conduct of review of LDRRM plans of LGUs	PDRRMO, PPDO, OPSWD	OCD VII
		Conduct of vulnerability and risk assessments provincewide in partnership with the MDRRMOs and other agencies	Conduct of capdev and IEC on the vulnerability and risk assessment results and formulation of vulnerability and updated hazard maps	PDRRMO	PPDO, C/MDRRM Os
			Conduct of workshops to contextualize the EWS with the LGUs per watershed area in coordination with BPEMO and other agencies	PDRRMO, BPEMO	C/MLGUs
			Passing of Ordinance establishing the Provincewide EWS	PDRRMO, BPEMO	C/MLGUs



		per hazard per watershed area		
		Conduct of workshops/seminar s on geological and meteorological man- made hazards	PDRRMO	PAG-ASA
	Conduct inventory and mapping of heritage areas and tourism sites at risk to tsunami/storm surge	assessment of the structural integrity of heritage areans and tourism sites	PDRRMO, BPTO	DOT, C/MLGUs
	Installation of standard reflectorized early warning signages, prioritizing most hazard prone areas	Conduct IEC to support the reduction of population at risk to hazards	PDRRMO	C/MLGUs
	Partnership and collaboration with NGAs (Climate Change Commission), CSOs and the Academe in DRRM thru Memorandum of Agreement (MOA), private/business sector, CSOs, League of LDRRMOs, MPDCs, LGUs, academe, professional organizations and	Strengthened partnership with the Climate Change Commission and other relevant organizations in DRRM Memorandum of Agreements with partners	PDRRMO	



others to formalize their commitments and mutual help during disasters Conduct massive orientation and IEC on the Safety and Health Accreditation and Policy Standards and BOMRACIO for tourism-based facilities and activities Conduct massive orientation and IEC on the Safety and Health Accreditation and Policy Standards and BOMRACIO for tourism-based facilities and activities	PDRRMO, BPTO	DOT, C/MLGUs, Hotels and resorts
Conduct of cloudseeding operations as mitigating measure for dry spell conduct of cloudseeding operations as mitigating measure for dry spell for the agriculture sector	OPA	MAO, C/MLGUs
Construction of operation centers/ substations cum evacuation and relief operation center in strategic municipalities in the province and vital structures for the operation of PDRRMC Command Center in transparence in strategic municipalities in the province and vital structures for the operation of poperation of poperation center in strategic municipalities in the province	PDRRMO	MLGUs
Institutionalization/ Conduct of establishment of workshops to early warning and contextualize the	PDRRMO, BPEMO	C/MLGUs



	forecasting system at prioritized watershed areas in the province and in the municipalities	EWS within the LGUs per watershed Passing of Ordinance establishing the provincewide EWS per hazard per watershed area Information dissemination at the community level on the EWS in localities and conduct of predisaster risk assessments/ trainings			
	Establish/update a database of human resource and their capacities, equipment, directories and location of hazards in the localities including geotagging of critical and lifeline facilities	updated and readily available database of hazard and response teams and equipment provincewide		PDRRMO, PPDO	C/MDRRM Os, C/MLGUs
	Formulation of the Disaster Response Operations Manual	Formulation of the Disaster Response Operations Manual for the PDRRMO to be adopted provincewide		PDRRMO	



7			Loboc, Candijay, Inabanga, Antequera, Garcia- Hernandez, Lila, Cortes, Sierra Bullones, Loay, Alburquerque With Island Barangays: Getafe, Talibon, Bien Unido, Pres. CPG, Loon, Ubay, Tubigon, Baclayon	Installation of Early Warning System (EWS) - All elements (risk knowledge; technical monitoring and warning service; communication and dissemination of warnings)	Clear and operational EWS			PDRRMO, BPEMO	MDRRMO, PRIVATE SECTOR, PAG-ASA
9	FLOODING, TYPHOON, SEVERE WIND	Support to the reduction of population at risk to flooding, typhoon, severe wind		Construction of Flood-Control Infrastructures in coordination with national agencies and other stakeholders Facilitation of the implementation of Flood-Control Infrastructures Resource Mobilization (Identification of Funding Source both Internal and External Sources)	List of target areas/sites	Completed Detailed Engineering design	Flood control measures implemented by LGU through the assistance of the Province and DPWH	LGU (MEO, PEO)	DPWH
11				Rehabilitation of existing Flood-Control Infrastructures in coordination with concerned agencies	Formulated Initial Detailed Engineering plan and design	Completed Detailed Engineering plan and design	Improved and rehabilitated Flood-Control Infrastructures	LGU (MEO, PEO)	DPWH



12			Review the existing policies and guidelines	List of existing policies and guidelines for updating			
13			Adoption and enactment of policies and guidelines (Environmental Laws, Building Code and No-Build Zones and CLUP) Issuance of Executive Order and Sanggunian Resolutions	Adoption and enactment of policies and guidelines (Environmental Laws, Building Code and No-Build Zones and CLUP		MENRO, MEO, MPDC, SB, MO	DENR, DPWH, DHSUD, PDRRMO?
15			Strict implementation of policies and guidelines (Environmental Laws, Building Code and No-Build Zones and CLUP)		Enforced policies and guidelines (Environmental Laws, Building Code and No- Build Zones and CLUP)		
16	Support to the reduction of agricultural areas at risk to Flooding, Typhoon, Severe Wind	Candijay (AF), Alicia, Guindulman (AF) Pilar, Batuan, Bilar, Carmen, Balilihan, Catigbian, Garcia- Hernandez, Jagna, Sierra Bullones, Danao	Introduction of climate-smart agricultural technologies	Intensify IEC to identified farmer groups/association		OPA, OPV	MLGUs, DA, NIA
	Nipa Plantation	Cortes (nipa), Maribojoc (nipa), Loboc, Inabanga, Loay	Database on the land area of the nipa plantation			OPA, BPEMO	MLGUs



17 18	Fisheri	Mabini, Sevilla, Buenavista, Ubay, Bien Unido, Calape, Clarin, Talibon, Pres. CPG, Tubigon, Lila, Loon, Inabanga	Provision of climate change-resilient projects (High-Density Polyethylene (HDPE) Cages, fiberglass boats, etc. in coordination with concerned national agencies and other stakeholders Coordination with Concerned national agencies and other stakeholders Procurement and implementation of the Project Proposal	Developed a full- blown Project Proposal	Obtained partnership with NGAs and C/MLGUs for the HDPE Cages, fiberglass boats	Purchased and delivered HDPE Cages, fiberglass boats to C/MLGUs	C/MLGUs, OPA	BFAR, DA
	Livesto Poultry	Mabini, Guindulman, Candijay, Alicia, S. Bullones, Loboc, Sikatuna, Pilar, Ubay, Calape, Loon, Cortes						
	reducti critica and lif risk to	ort to the	Preparation of the Detailed Engineering design and Structural				PEO	DPWH, C/MLGUs
20	Roads Bridge		Analysis	Developed and approved Detailed Engineering design				



		Cortes, Camayaan Bridge in Cortes 2nd District Inabanga, Buenavista, Clarin, Malitbog in Dagohoy 3rd District		Complete Structural analysis as basis for repair and retrofitting of roads and bridges				
		Candijay, Guindulman, Duero, Garcia- Hernandez, Lila, Bilar, Carmen, Batuan, Valencia, Alicia, Loay, Loboc (Agape Bridge and Roads)						
21		Seawall: 1st District Baclayon (for repair) 3rd District Guindulman, Duero, Jagna, Garcia-Hernandez, Valencia, Dimiao, Lila (ongoing), Loay	Repair & retrofitting of roads, bridges, seawall			Roads and seawalls completed, upgraded and safer roads, bridges	PEO	DPWH, C/MLGUs
	Support to the reduction of built-up areas at risk to Flooding, Typhoon, Severe Wind	Tagbilaran City, (Urbanizing Municipalities): Tubigon, Talibon, Ubay, Panglao, Dauis, Jagna, Loon	Inventory and mapping of all built-up areas	Database of all built-up areas	Recommend for the rehabilitation of the identified weak structures		PDRRMO, PEO, BPEMO	MLGUs, DPWH



			Talibon Group of Islands Protected Landscape and Seascape: Getafe, Bien Unido, Talibon, Ubay, CPG, Tubigon, Loon	Inventory and mapping of Talibon Group of Island Protected Landscape	Database of Talibon Group of Island Protected Landscape	PDRRMO, PEO	MLGUs, DPWH
			Chocolate Hills Natural Monument: Carmen, Sagbayan, Batuan, Bilar	Inventory and mapping of Chocolate Hills Natural Monument	Database of Chocolate Hills Natural Monument	PDRRMO, PEO, BPEMO	MLGUs, DPWH
		Support to the reduction of environmental areas at risk to Flooding, Typhoon, Severe Wind	Alburquerque-Loay- Loboc Protected Landscape / Seascape: Alburquerque, Loay, Loboc	Inventory and mapping of Alburquerque-Loay-Loboc Protected Landscape / Seascape	Geo-tagging of Alburquerque-Loay- Loboc Protected Landscape / Seascape	PDRRMO, PEO, BPEMO	MLGUs, DPWH
			Panglao Island Protected Seascape: Panglao, Dauis	Inventory and mapping of Panglao Island Protected Seascape	Geo-tagging of Panglao Island Protected Seascape	PDRRMO, PEO, BPEMO	MLGUs, DPWH
			Loboc Watershed Forest Reserve: Loboc, Bilar	Inventory and mapping of Loboc Watershed Forest Reserve	Geo-tagging of Loboc Watershed Forest Reserve	PDRRMO, PEO, BPEMO	MLGUs, DPWH
			Alejawan- Cansuhay- Anibongan River Watershed Forest Reserve: Jagna, Duero	Inventory and mapping of Alejawan- Cansuhay- Anibongan River Watershed Forest Reserve	Geotagging of Alejawan- Cansuhay- Anibongan River Watershed Forest Reserve	PDRRMO, PEO, BPEMO	MLGUs, DPWH



Tubigon Group of Islands Mangrove Swamp Forest Reserve/Wildernes s Area: Tubigon	Inventory and mapping of Tubigon Group of Islands Mangrove Swamp Forest Reserve/Wildernes s Area	Geo-tagging of Tubigon Group of Islands Mangrove Swamp Forest Reserve/Wilderness Area	PDRRMO, PEO, BPEMO	MLGUs, DPWH
Clarin Group of Islands Wilderness Area: Clarin	Inventory and mapping of Clarin Group of Islands Wilderness Area	Geo-tagging of Clarin Group of Islands Wilderness Area	PDRRMO, PEO, BPEMO	MLGUs, DPWH
Calape Group of Islands Mangrove Swamp Forest Reserve and Wilderness Area: Calape	Inventory and mapping of Calape Group of Islands Mangrove Swamp Forest Reserve and Wilderness Area	Geo-tagging of Calape Group of Islands Mangrove Swamp Forest Reserve and Wilderness Area	PDRRMO, PEO, BPEMO	MLGUs, DPWH
Cabilao Sandingar Islands, Mangrove Swamp Forest Reserve: Loon	Cabilao Sandingan Islands, Mangrove Swamp Forest Reserve	Geo-tagging of Cabilao Sandingan Islands, Mangrove Swamp Forest Reserve	PDRRMO, PEO, BPEMO	MLGUs, DPWH
Candijay-Anda- Mabini Mangrove Swamp Forest Reserve and Wilderness Area: Candijay, Anda, Mabini	Inventory and mapping of Candijay-Anda-Mabini Mangrove Swamp Forest Reserve and Wilderness Area	Geo-tagging of Candijay-Anda- Mabini Mangrove Swamp Forest Reserve and Wilderness Area	PDRRMO, PEO, BPEMO	MLGUs, DPWH
Inabanga Wilderness Area and Mangrove Swamp Forest Reserve: Inabanga	Inventory and mapping of Inabanga Wilderness Area and Mangrove	Geo-tagging of Inabanga Wilderness Area and Mangrove Swamp Forest Reserve	PDRRMO, PEO, BPEMO	MLGUs, DPWH



			President Carlos P. Garcia Mangrove Swamp Forest Reserve: Pres. CPG	Swamp Forest Reserve Inventory and mapping of President Carlos P. Garcia Mangrove Swamp Forest Reserve	Geo-tagging of President Carlos P. Garcia Mangrove Swamp Forest Reserve		PDRRMO, PEO, BPEMO	MLGUs, DPWH
			Getafe Group of Islands Mangrove Swamp Forest Reserve/Wildernes s Area: Getafe	Inventory and mapping of Getafe Group of Islands Mangrove Swamp Forest Reserve/Wildernes s Area	Geo-tagging of Getafe Group of Islands Mangrove Swamp Forest Reserve/Wilderness Area		PDRRMO, PEO, BPEMO	MLGUs, DPWH
			Ubay Mangrove Swamp Forest Reserve: Ubay	Inventory and mapping of Ubay Mangrove Swamp Forest Reserve	Geo-tagging of Ubay Mangrove Swamp Forest Reserve		PDRRMO, PEO, BPEMO	MLGUs, DPWH
		Support to the reduction of heritage areas and tourism sites at risk to Flooding, Typhoon, Severe Wind (For validation with NHCP)	Loboc, Cortes, Alburquerque, Loon, Balilihan, Dimiao, Loay, Baclayon, Panglao, Dauis, Inabanga, Danao, Jagna, Talibon, Sierra Bullones, Pilar, Guindulman, Duero	Inventory and mapping of heritage areas and tourism sites	Geo-tagging of all the heritage areas and tourism sites		PDRRMO, BPTO, GO- CCAD	DOT, MLGUs
22	STORM SURGE	Support to the reduction of population at risk to storm surge	Indigenous settlements (Badjao) Dauis, Getafe Informal Settlers	Enactment of Ordinance on No Build Zone Areas	Provided assistance to C/MLGUs in the enactment of Ordinances	Formulation of IRRs	PDRRMO/SP	C/MLGUs



23			Bien Unido, Pres. CPG, Talibon, Loay Duero, Lila, Garcia Hernandez, Jagna	LGU to identify relocation areas	Formulated relocation plan	Continued social preparation	Facilitate implementation of relocation plan	GO/PPDO	NHA
				Conduct mangrove rehabilitation activities	Established mangrove nurseries in strategic and accessible areas	Distributed mangrove seedlings and propagules	Technical assistance provided to C/MLGUs in the planting of mangroves and deployment of forest guards	ВРЕМО	C/MLGUs
				Provide livelihood opportunities in the mainland	List of skills inventories		Monitoring of hired skilled workers	BEPO/PESO	DTI/DOLE/ DSWD
24 25				Conduct job fair		Skills Matching			חפאים
				Inventory of critical facilities and	Database of all critical infrastructures and lifelines at risk to Storm Surge	Oce to reins of	Unanadadaad	PDRRMO, PEO, PPDO,	DPWH, Water and Power companies,
	red crit	apport to the duction of itical facilities		lifelines	List of recommended critical facilities and lifelines for rehab/retrofitting	Geo-tagging of critical infrastructures and lifelines	Upgraded and retrofitted critical facilities and lifelines	PHO, BPTO	C/MLGUs, DepEd, DOH, DSWD
26	l	d lifelines at k to storm		Assess structural integrity					
27	sui	rge		Mapping					
				Ongoing construction of	constructed access road in Ubay				
				access roads (Ubay, Talibon)	constructed access road in Talibon				
28				Facilitate in the establishment of					



			breakwater /embankment				
	Roads and Bridges	Dauis, Baclayon, Albuquerque, Lila	Assess structural integrity	Geo-tagging of the roads and bridges in 4 MLGUs		PEO, PDRRMO	DPWH, MEO
	Water	Pres. CPG, Bien Unido, Trinidad and other coastal MLGUs	Database of all the water sources and pumping stations	Geo-tagging of the water sources and pumping stations in all coastal MLGUs		BPEMO, PDRRMO	
	Power	Pres. CPG, Ubay, Bien Unido and other coastal MLGUs	Database of all the power sources in coastal MLGUs	Geo-tagging of the power sources in all coastal MLGUs		PDRRMO, PPDO	MLGUs,
	Municipal H	Guindulman, Anda, Garcia-Hernandez, Jagna, Lila, and other coastal LGUs	Database of all Municipal halls in all coastal MLGUs	Geo-tagging of Municipal Halls located coastal LGUs		PDRRMO, PPDO	
29	Provincial buildings an facilities	Tagbilaran City and coastal MLGUs where other Provicial facilities are located	Facilitate insurance coverage of buildings Inventory of Provincial buildings and facilities	Geo-tagging of Provincial buildings and facilities		PDRRMO, PPDO, PEO	DPWH, MLGUUs
	Schools	Baclayon, Loay, Dimiao, Valencia, Pres. CPG, Loon, and other coastal LGUs	Database of all schools in coastal MLGUs	Geo-tagging of schools in all coastal MLGUs at risk for storm surge		PPDO, PDRRMO	Dep-Ed, MLGUs
	Churches (heritage site	Anda, Baclayon, Bien Unido, and other coastal LGUs	Database of all churches and heritage sites in all coastal MLGUs	Geo-tagging of churches and heritage sites in all coastal MLGUs at risk for storm surge		BPTO, PDRRMO	MLGUs, DOT, NHI, NHCP, National Museum



30	Evacuation centers	Garcia-Hernandez, Jagna, Guindulman, and other coastal LGUs	Assess existing evacuation centers Facilitate the establishment of compliant/resilient evacuation centers	Database of all existing evacuation centers and present condition	Clustering of C/MLGUs for the establishment of evacuation centers	Evacuation centers compliant with standards	PEO, OPSWD, PDRRMO	OCD7, DSWD
32	Seaports	Tagbilaran City, Loon, Alburquerque, Maribojoc	Coordination with DPWH for the Seawall Identification and Feasibility Study for C/MLGUs Construction of seawall in the identified C/MLGUs	Completed Feasibility Study	Constructed seawall in the identified C/MLGUs – Phase 1	Constructed seawall in the identified C/MLGUs – Phase 2	DPWH, PEO	C/MLGUs
33	Support to the reduction of agricultural areas at risk storm surge		Identified C/MLGOS					
34	Fisheries		Mapping	Database of all agricultural areas	Risk map of all agricultural areas		OPA, OPV	MAO, DA
35	Agriculture		Identify relocation area for livestock and fisheries	List of safe areas for livestock and fisheries				
36		Mabini, Talibon, Bien Unido, Pres. CPG	Facilitate for crop insurance to PCIC including livestock and poultry	Approved crop insurance for farmers	Approved crop insurance for farmers			
			Facilitate for crop insurance to PCIC including livestock and poultry	Approved crop insurance for farmers	Approved crop insurance for farmers			



37	Support to the reduction of built-up areas at risk to storm surge		Assessment of structural integrity	Completed assessment report of critical buildings in			PEO, PDRRMO	DPWH, DILG, DepEd, DOH
38	_		Strict implementation of building code	Compliant building structure	Compliant building structure	Compliant building structure	PEO	PDRRMO
39	Microbusinesses, MSMEs, Remittance Center		LGU to identify relocation areas	List of safe relocation areas			PDRRMO, PEO	C/MLGUs. LDRRMO, MGB
		Bien Unido, Talibon, Panglao, Baclayon, Jagna, Pres. Carlos P. Garcia, Valencia, Garcia-Hernandez, Ubay, Dimiao, Tagbilaron City	Coordination with DPWH for flood structure identification and Feasibility Study for the identified C/MLUs	Completed Feasibility Study	Constructed Flood Control Structure in the identified	Constructed Flood Control Structure in the identified	DPWH, PEO	C/MLGUs.
40		Tagbilaran City	Construction of Flood Control Structure in the identified C/MLGUs		C/MLGUs – Phase 1	C/MLGUs – Phase 2		
41			Coordination with DPWH and DENR for shoreline protection in priority C/MLGUs Implement			Completed shoreline protection measures in priority	DPWH, PEO, MEO	DENR
42	Support to the		shoreline protection measures			C/MLGUs		
	Support to the reduction of environmental areas at risk to storm surge							



43		River basins / Watershed	Inabanga, Trinidad	Inventory and mapping of environmental areas at risk to tsunami	Database of environmental areas at risk to tsunami	Need to identify PPAs		BPEMO, MENRO	DENR
44		Mangrove Cover	Tubigon, Getafe, Clarin, Calape, Loon, Maribojoc	Assist in the establishment of nurseries for mangroves			Nurseries set-up in _ number of C/MLGUs		
45				Inventory and mapping of heritage areas and tourism sites at risk to tsunami	Database of all heritage areas and tourism sites	Database of all heritage areas and tourism sites	Database of all _% heritage areas and tourism sites	PDRRMO	PHIVOLCS , PAGASA, NI
46		Support to the reduction of heritage areas	Panglao, Dauis, Anda, Cortes,	Facilitate in the identification of nearest evacuation areas for tourist	List of safe evacuation areas Map and clear route of nearest and safe evacuation centers			вто	DOT
47		and tourism sites at risk to storm surge	Baclayon, Loon, Maribojoc, Dauis, Alburquerque	Facilitate in the establishment of an emergency communication hotline specific for foreign nationals	Clear protocol for emergency communication hotline for foreign nationals			вто	DOT
48				Assessment of the structural integrity of heritage areas and tourism sites	Assessment Report of heritage areas			PEO, PDRRMO	DPWH, NHI
49	DROUGHT	Support to the reduction of critical facilities and lifelines at risk to drought	Corella, Cortes, Balilihan, Loboc, Danao, Getafe, Ubay, Buenavista, San Miguel, Dagohoy	Additional Drilling for water source	2 water drilling installed per LGU	2 water drilling installed	1 water drilling installed per LGU	PDRRMO, PPDO, PEO	DPWH, DENR, LGU



50			Construction of additional rain water collectors and reservoir Mandatory in all government own buildings.	2 units rain water collector and reservoir established /LGU (48 LGU's)	2 units rain water collector and reservoir established /LGU (48 LGU's)	2 units rain water collector and reservoir established /LGU (48 LGU's)	PDRRMO, PPDO, PEO	DPWH, DENR, LGU, AGRICULT URE, NIA
			Conduct Feasibility study of Desalination of water facilities	Pre-determined done		Completed the study and presented the proposal for possible funding of the construction of	PDRRMO, PPDO, PEO, PBO	NWRB
51						the Desalination of water facilities to the top LGU's identified		JICA, DPWH
52 53			Installation of Solar powered pumps	Operational powered pumps in identified C/MLGUs				
	Support to the reduction of agricultural areas at risk to drought							
54	Agricultural areas	All Agricultural Towns (45 MLGUs)	Mandatory planting of Banyan Tree, Bamboo tree	3 municipalities planted with Banyan Trees and Bamboo tree (200 seedlings)	3 municipalities planted with Banyan Trees and Bamboo tree (200 seedlings)	4 municipalities planted with Banyan Trees and Bamboo tree (200 seedlings)	PDRRMO, BEMO	DENR, MENRO, BFAR
55			Conduct Cloud seeding	Cloud seeding implemented in all Municipalities	Cloud seeding implemented in all Municipalities	Cloud seeding implemented in all Municipalities	PDRRMO,	BSWM, DA



56			Mangrove Plantation Program	Planted mangrove seedlings in all coastal towns	Planted mangrove seedlings in adaption to all coastal towns	Planted mangrove seedlings in adaption to all coastal towns	PDRRMO,	BSWM
57			Promotion of drip irrigation technologies, for selected high valued Commercial Crops (HVC)	Adopted to all 45 Agricultural Municipalities	Adopted to all 45 Agricultural Municipalities	Adopted to all 45 Agricultural Municipalities	PDRRMO,	
58			Establish Small Farm Reservoir (SFR) 480 units	16 C/MLGUS's with 10 units of SRFs	16 C/MLGUS's with 10 units each of SRFs	16 C/MLGUS's with 10 units each of SRFs	PDRRMO, OPA, MAO, PEO	NIA, DA, PSF
59			Conduct farmers field school on climate change	Farm field school established in all municipalities		All municipalities	PDRRMO, OPA, MAO, PEO	NIA, DA, PSF
60			Implement soil and water conservation measures	2 towns with soil and water conservation measures implemented	2 towns with soil and water conservation measures implemented	2 towns with soil and water conservation measures implemented		DENR, MAO, MENRO
61			Provision of drought resistant and varieties of crops	Distributed drought resistant and varieties of crops in 2 towns implemented	Distributed drought resistant and varieties of crops in 2 towns implemented	Distributed drought resistant and varieties of crops in 2 towns implemented	PDRRMO, OPA	DENR, MAO, MENRO
62			Provision of crop insurance	All Agricultural Towns (45 Municipalities)	All Agricultural Towns (45 Municipalities)	All Agricultural Towns (45 Municipalities)	PDRRMO, OPA	DENR, MAO, MENRO
	Dams, Irrigation facilities	All towns with dams, irrigation facilities	Inventory and database of the dams and irrigation	Geo-tagging of the dams and irrigations facilities			PPDO, PDRRMO, PEO	MLGUs, NIA



			Ubay, San Miguel, Pilar, Talibon (2)	facilities at risk to drought					
		Support to the reduction of environmental areas at risk to drought	7 Watershed Areas (Inabanga, Pilar, Danao, S-Bullones, Dagohoy, Loboc, Bilar, Duero G-Hernandez, San Miguel, Alicia, Candijay, Talibon, Guindulman, Pilar, Carmen, Balilihan, Catigbi-an, Batuan, Getafe, Buenavista, Clarin, Sagbayan	Database and inventory of the MLGUs comprising the 7 watershed areas	Geo-tagging of the 7 watershed areas at risk to drought			BPEMO, PDRRMO, PPDO	MLGUs,
		Support to the reduction of heritage areas and tourism sites at risk to drought	Guindulman, Candijay, Alicia, Ubay, Pilar, Danao, Mabini, San Miguel, Dagohoy, Inabanga, Talibon, Getafe, Buenavista, S-Bullones, Trinidad, Jagna, Carmen, Duero, CPG, Lila, Dimiao	Database and inventory of the MLGUs heritage areas and sites at risk to drought	Geo-tagging of the heritage areas and tourism sites at risk to drought			PDRRMO, BPTO	DOT, NHI, National Museum, MLGUs
63	RAIN- INDUCED LANDSLIDE (RIL)	Support to the reduction of population at risk to RIL	Loboc, Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones,	Construction of Slope protection structure	Slope protection implemented in priority C/MLGUs	Slope protection implemented in priority C/MLGUs	Slope protection implemented in priority C/MLGUs	PDRRMO, PPDO, PEO	DPWH, DENR, LGU



	Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar (not too severe) Catigbian, Inabanga, Balilihan, Antiquera, San Miguel		Loboc, Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar (not too severe) Catigbian, Inabanga, Balilihan, Antiquera, San Miguel- implemented	Loboc, Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar (not too severe) Catigbian, Inabanga, Balilihan, Antiquera, San Miguel- implemented	Loboc, Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar (not too severe) Catigbian, Inabanga, Balilihan, Antiquera, San Miguel- implemented		
64		Tree growing project	Planted trees in the identified MLGUs Loboc, Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar (not too severe) Catigbian, Inabanga, Balilihan, Antiquera, San Miguel- implemented	Planted trees in identified C/MLGUs Loboc, Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar (not too severe) Catigbian, Inabanga, Balilihan, Antiquera, San Miguelimplemented	Planted trees in identified C/MLGUs Loboc, Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar (not too severe) Catigbian, Inabanga, Balilihan, Antiquera, San Miguelimplemented	LGU, BEMO	DPWH, DENR, DA



				SP Ordinance for No build zone on identified RIL areas	Approved ordinance on No build zone on identified RIL areas			PDRRMO, SP	LGU,
65				in whole Province	in whole Province				
66				Conduct inventory and mapping of critical point facilities in the province	List of critical facilities with maps in 48 C/MLGUs	All municipalities	All municipalities	PDRRMO, PEO	LGU
67		Support to the reduction of agricultural areas at risk RIL	All Agricultural Towns (45 Municipalities)	Promote farmers to practice the process of Contour Farming Technology per LGU (mandatory)	Implemented Contour Farming Technology per LGU			OPA	MAO, DA
		Support to the reduction of population at risk to tsunami	Bien Unido, Pres. CPG, Talibon, Loay Duero, Lila, Garcia Hernandez, Jagna	LGU to identify relocation areas	Formulated relocation plan	Continued social preparation	Facilitate implementation of relocation plan	GO/PPDO	NHA
	TSUNAMI			Conduct mangrove rehabilitation activities	Established mangrove nurseries in strategic and accessible areas	Distributed mangrove seedlings and propagules	Technical assistance provided to C/MLGUs in the planting of mangroves and deployment of forest guards	ВРЕМО	C/MLGUs
				Provide livelihood opportunities in the mainland	List of skills inventories		Monitoring of hired skilled workers	BEPO/PESO	DTI/DOLE/ DSWD
				Conduct job fair		Skills Matching			
		Support to the reduction of critical facilities		Inventory of critical facilities and lifellines at risk to tsunami	Database of all critical facilities and lifelines at risk to tsunami	Geo-tagging of critical lifelines and facilities	Upgraded and retrofitted critical facilities and lifelines	PDRRMO, PEO, PPDo, PHO, BPTO	DPWH, Water and Power companies,



	and lifelines at risk to tsunami							C/MLGUs, DepEd, DOH, DSWD
			Asses structural integrity	List of recommended critical facilities and lifelines for rehab/retrofitting				
			Mapping Facilitate in the establishment of breakwater/embank ment					
	Roads and Bridges	Dauis, Baclayon, Albuquerque, Lila, Guindulman, Anda, Duero	Asses structural integrity	Geo-tagging of the roads and bridges in 7 MLGUs	Recommend for the rehabilitation of identified weak structures	Upgraded and retrofitted critical facilities and lifelines	PEO, PDRRMO	DPWH, MEO, other Natioanl Governme nt Agencies
	Water System	Pres. CPG, Bien Unido, Trinidad	Database of all the water sources and pumping stations	Geo-tagging of the water sources and pumping stations in the identified 4 MLGUs			BPEMO, PDRRMO	MLGUs, Water companies
	Power	Pres. CPG, Bien Unido, Ubay, Loon, Maribojoc,	Database of all the power sources	Geo-tagging of all the power sources in the identified 5 MLGUs			PDRRMO, PPDO	MLGUs, Power companies
	Municipal Halls	Maribojoc, All 30 coastal LGUs	Database of all the Municial Halls in all 30 coastal MLGUs	Geo-tagging of all the Municpal Halls located in 30 coastal MLGUs	Recommend for the rehabilitation of identified weak structures	Upgraded and retrofitted critical facilities and lifelines	PEO, PDRRMO, PPDO	MEO, MLGUs, National Governme nt Agencies



	Schools	All 30 coastal LGUs	Database of all the Schools in all 30 coastal MLGUs	Geo-tagging of all the Schools located in 30 coastal MLGUs	Recommend for the rehabilitation of identified weak structures		PPDO, PEO, PDRRMO	Dep-ED, MLGUs
	Churches	All 30 coastal LGUs	Database of all the Churches in all 30 coastal MLGUs	Geo-tagging of all the Churches located in 30 coastal MLGUs	Recommend for the rehabilitation of identified weak structures		BPTO, PDRRMO	MLGs, NHI, National Museum, other National Governme nt Agencies
	Evacuation centers	All 30 coastal LGUs	Assess existing evacuation centers for structural integrity	Geo-tagging of all the existing evacuation centers located in the 30 coastal MLGUs	Facilitate in the establishment of compliant/resilien t evacuation centers	Clustering of MLGUs for the establishment of evacuation centers compliant with standards	OPSWD, PEO, PDRRMO	MLGUs, DSWD, OCD 7, other Natinal Governme nt Agencies
			Database of all existing evacuation centers					
	Hospitals	All 30 coastal LGUs	Assess existing hospitals for structural integrity	Geo-tagging of all the existing hospital located in the 30 coastal MLGUs	Recommend for the rehabilitation of identified weak structures		PHO, PDRRMO, PEO	DOH, DPWH, MLGUs
	Tiospitais	All 30 coastal Eggs	Database of all hospitals located in 30 coastal MLGUs at risk tsunami					
	Gas Station	All 30 coastal LGUs	Inventory and database of all the gas stations located in 30 coastal MLGUs with genset	Geo-tagging of all the existing hospital located in the 30 coastal MLGUs			PDRRMO	MLGUs, BPEMO



	Barangays Halls	All 30 coastal LGUs	Inventory and database of all the Barangay Halls located in 30 coastal MLGUs Assess structural	Geo-tagging of all the Barangay Halls located in 30 coastal MLGUs	Recommend for the rehabilitation of identified weak structures	PDRRMO, PPDO	MLGUs, National Governme nt Agencies
	RHU	All 30 coastal LGUs	Inventory and database of all the Rural Health Units	Geo-tagging of all the Barangay Halls located in 30 coastal MLGUs	Recommend for the rehabilitation of identified weak structures	PDRRMO, PEO, PHO	MHO, DOH, MLGUs, National Governme nt Agencies
			Assess structural integrity				
	Fire Stations	All 30 coastal LGUs	Inventory and database of all the Fire Stations	Geo—tagging of al Fire Stations located in coastal MGLUs		PDRRMO, PPDO	BFP, MLGUs, National Governme nt Agencies
	Lying-in Clinic/Centers	All 30 coastal LGUs	Inventory and database of all the Lying-in clinics/centers	Geo-tagging of all Lying-in clinic/centers	Recommend for the rehabilitation of identified weak structures	PHO, PDRRMO	DOH, MHO, National Governme nt Agencies
	Support to the reduction of agricultural areas at risk to tsunami						
	Fisheries	Mabini, Ubay, Talibon, Bien Unido, Pres. CPG, Calape, Candijay	Mapping	Inventory and database of all fisheries at risk to tsunami	Risk map of fisheries located in identified MLGUs	OPA, OPV	MAO, DA, MLGUs



Poultry and Livestock	Cortes, Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Albuquerque, Baclayon, Panglao, Dauis	Mapping	Inventory and database of all poultry and livestock at risk to tsunami	Risk map of poultry and livestock located in identified MLGUs		OPA, OPV	MAO, DA, MLGUs
Support to the reduction of built-up areas at risk to Tsunami	Bien Unido, Talibon, Panglao, Baclayon, Jagna, Pres. CPG, Valencia, Garcia- Hernandez, Ubay	Assessment of structural integrity	Completed assessment report of critical built-up areas			PEO, PDRRMO	C/MLGUs, MGB, C/MDRRM Os
Microbusinesses, MSMEs, Remittance Center	Cortes, Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Alburquerque, Baclayon, Panglao, Dauis	Strict implementation of building code					
		LGU to identify relocation areas	List of safe relocation sites			PDRRMO, PEO	C/MLGUs, C/MDRRO s, MGB
		Coordination with DPWH for Flood Control Structure in the identified C/MLGUs	Completed feasibility	Construction of Flood Control Structure in the identifed MLGUs- Phase 1	Construction of Flood Control Structure in the identifed MLGUs- Phase 2	PEO	DPWH, MHO, C/MLGUs
		Coordination with DPWH and DENR for shoreline protection in priority C/MLGUs	Implement shoreline protection measures	Completed shoreline protection in priority C/MLGUS-Phase 1	Completed shoreline protection in priority C/MLGUS- Phase 2	PEO	DPWH, MHO, C/MLGUs
Support to the reduction of environmental areas at risk to tsunami							



	River basins/watershed	Inabanga, Trinidad	Inventory and mapping of river basins/watersheds at risk to tsunami	Database of river basins/watersheds	Geo-tagging of identified river basins/watershed s in priority MLGUs	BPEMO, PDRRMO	MENRO, DENR, MLGUs
	Mangrove Cover	Tubigon, Getafe, Clarin, Calape, Loon, Maribojoc	Assist in the establishment of nurseries for mangroves	Nurseries set-up in priority MLGUs		BPEMO, PDRRMO	MENRO, DENR, MLGUs
	Support to the reduction of heritage areas and tourism sites at risk to tsunami	Lila, Loay, Alburquerque, Baclayon, Panglao, Dauis, Anda, and all protected seascapes	Inventory and mapping of heritage areas and tourism sites at risk to tsunami	Database of all heritage areas and tourism sites in identified MLGUs	Geo-tagging of the heritage areas and tourism sites	BPTO, PDRRMO	DOT, MLGUs, NHI, other National Governme nt Agencies
		Facilitate in the identification of nearest evacuation areas for tourist	List of safe evacuation areas			BPTO, PDRRMO	DOT, MLGUs
		Facilitate in the establishment of emergency communication hotline specific for foreign nationals	Clear protocol for emergency communication hotline			вто	DOT
		Assess structural integrity of heritage areas and tourism sites	Assessment report of the structural integrity			PEO, PDRRMO, BPTO	DPWH, NHI, MLGUs, other National Governme nt Agencies



		Support to the reduction of population at risk to ground shaking, liquefaction LGUs near East Bohol Fault (epicenter at Jagna, SW propagation), and South Offshore Fault)	Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Baclayon (Pamilacan Is.), Panglao (Balicasag Is.), Carmen, Sierra Bullones, Pilar, Bilar, Batuan, Balilihan, Catigbian, San Isidro, Sevilla, Antequera, Cortes, Maribojoc, Tubigon, Calape, Sikatuna, Loboc, Corella, Loay (addt'l	Enactment of Ordinance on No Build Zone Areas	Provided C/MLGUs in the enactment og Ordinances	Formulation of Implementing Rules and Regulations	PDRRMO, SP	C/MLGUs
68	EARTHQUAKE, GROUNDSHAKI NG, LIQUEFACTION	Support to the reduction of built-up areas at risk to Ground Shaking, Earthquake-Induced Landslide, Liquefaction	Jagna, Tagbilaran City, Valencia, Dauis, Panglao (based on form 2A DRRM Target Setting) 47 municipalities and 1 city (based on form 3A of group 2)	Support in the advocacy in the strict implementation of the National Building Code				
69				Conduct of orientation on the Bohol hazards and risk profile and impacts to structures and the strict implementation of the National Building Code	Oriented 47 municipalities and 1 city on the Bohol hazards and risk profile and impacts to structures		PDRRMO	LGU, ASEP, PICE



70 71 72		Tagbilaran City	Conduct of studies relating Geological Hazards in coordination with MGB, PHIVOLCS, other geo-sciences experts from academic institutions Conduct of Geotechnical site surveys on built-up areas with Karst ground formation to identify Site Response and Subsidence	Forged partnership with MGB, PHIVOLCS, other geo-sciences experts from academic institutions MOA with Tagbilaran City, PhiVolcs, MGB, and required trainings Selection of study areas	Surveys and validation completed Presented the results and recommendation s to PDRRMC Adopted recommendation s for budget allocation and prioritization Geotechnical site survey and map of Tagbilaran City Presented the results and recommendation s to PDRRMC Adopted recommendation s for budget allocation and prioritization		PDRRMO, PEO, PPDO, GO	JICA Experts, PHIVOLCS , MGB, Tagbilaran City
74			Procurement of GPR by PGBh					
75		Pilot LGU	operations and data interpretation training Conduct Geotechnical site survey on pilot municipality			Site survey study of priority C/MLGUs	PDRRMO, PEO	PHIVOLCS , MGB, LGU
	Support to the reduction of	Garcia- Hernandez, Loay,	Inventory and database of the	Geo-mapping of the agricultural			OPA, PDRRMO	DA, MAO, C/MLGUs



	agricultural areas at risk to earthquake, ground shaking liquefaction Support to the reduction of critical facilitie and lifelines at risk earthquake ground shaking liquefaction	s	agricultural areas in identified C/MLGUs	areas in identified C/MLGUs				
77	Roads and Bridges	Loay, Valencia, Lila, Dimiao, Jagna, Garcia-Hernandez, Tagbilaran City	Conduct structural integrity of provincial bridges Retrofitting of bridge structures recommended based on the assessment	Recommend weak structures for retrofitting/rehab	Number of bridges retrofitted		PEO	NA, ODA, DPWH
	Dam (reservoir)	Garcia-Hernandez, Pilar, San Miguel, Ubay, Talibon, Tubigon, Candijay	Conduct periodic dam strucrural integrity/stability test against ground shaking Conduct assessment on the storage capacity of the dams due to siltation	Pilar and San Miguel Dam, Capayas Dam, Talibon Dam, Candijay Dam	Pilar and San Miguel Dam, Capayas Dam, Talibon Dam, Candijay Dam	Pilar and San Miguel Dam, Capayas Dam, Talibon Dam, Candijay Dam	NIA, DPWH	DOST- PHIVOLCS , DENR- MGB
	Power	Jagna (BOHECO II), Ubay	Conduct of GPR surveys on vital power installations and identify mitigating measures	All power posts of Boheco I and II	All power posts of Boheco I and II	All power posts of Boheco I and II	Boheco I and II	DENR- MGB



	Communications	Jagna, Tagbilaran, All cell sites	Conduct og GPR surveys of all cell sites installed in the province	Towers of Globe, Smart, Dito, amd other TELCOS	Towers of Globe, Smart, Dito, and other TELCOS	Towers of Globe, Smart, Dito, and other TELCOS	Globe, Smart, Dito, and other TELCOS	DICT
	Municipal Halls	Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Interior and South Municipalities	Conduct of structural assessments of all Municipal government buildings	Provincewide	Provincewide	Provincewide	PEO, DPWH	DENR- MGB, PICE, C/MLGUs
	Schools	Tagbilaran City	Conduct structural assessments of all schools, private and public schools in reference to the ground-shaking hazard map	All schools in Tagbilaran City	All schools in Tagbilaran City	All schools in Tagbilaran City	Dep-Ed Administrator	DPWH, PEO, DENR- MGB
	Evacuation centers	Jagna, Tagbilaran City, Valencia, Panglao	Conduct of ocular inspection as to the structural integrity of all Evacuation Centers	Existing ECs in Jagna, Tagbilaran City, Valencia, and Panglao	All other buildings designated as ECs	All other buildings designated as ECs	PDRRMO, PEO	OCD, C/MLGUS
	Hospitals	Valencia, Tagbilaran City, Jagna	Conduct of ocular inspection as to the structural integrity of all prioritized hospitals					
	Ports	Jagna, Garcia- Hernandez, Loay, Ubay, Tagbilaran	Conduct of ocular inspection as to the structural integrity of all Ports in Bohol	All major ports of Bohol	All secondary ports of Bohol	All secondary ports of Bohol	PPA, DPWH	PCG, PICE
			Monitoring of sea level rise					



79	Support to the reduction of environmenta areas at risk to Ground Shakir Earthquake, Liquefaction	8 Stations	Establish a continuous GPS Network for Crustal Deformation Studies	3 stations	3 stations	2 stations	PDRRMO, BICTO	PHIVOLCS , JICA
	Watershed	Garcia-Hernandez (Manaba river)	Geo-tagging of the Garcia Hernandez Manaba River				PDRRMO, BPEMO	MDRRMO
80	Support to the reduction of heritage areas and tourism sit at risk to Grou Shaking, Earthquake-Induced Landslide, Liquefaction	es Valencia, Dauis,	Retrofitting and Detail Profiling of heritage structures (i.e., churches)		1 structure retrofitted in Baclayon		CCAD, BACH Council	NHI, National Museum, NHCP
81	Centennial Churches	Baclayon, Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Lila, Dimiao, Alburquerque, Loay, Garcia- Hernandez, Cortes, Maribojoc, Loon, Calape,Balilihan, Alburquerque, Jagna, Tagbilaran City, Valencia, Dauis, Panglao	Retrofitting and Detail Profiling of heritage structures (i.e., churches)		1 structure retrofitted in Baclayon		CCAD, BACH Council	NHI, National Museum, NHCP



	Support to the reduction of population at risk to EIL	Loboc, Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar, Alicia, Sikatuna, Batuan, Lila, Guindulman, Pilar, Corella, Balilihan, Catigbian, Clarin, Tubigon, Calape, Loon, Maribojoc, Antequera, Buenavista, Inabanga, Sikatuna, Albur, Loay, Cortes, Carmen Dagohoy, San Miguel, Mabini, Anda, Trinidad, Ubay,	Installation of No Build Zone Signages for identified areas	10 sites installed with No Build Zone Site signages	10 sites installed with No Build Zone Site signages	10 sites installed with No Build Zone Site signages	PDRRMO, PEO, PPDO	MGB, OCD7, DILG
	Support to the reduction of built-up areas at risk to EIL	Sagbayan, Garcia- Hernandez, Duero, S. Bullones, Jagna, Calape, Bilar, Batuan	Support in the construction of slope protection structures			1 slope protection structure constructed	PDRRMO, PEO, PPDO, DPWH	JICA, DPWH, MEO, C/MDRRM O
	Support to the reduction of critical facilities and lifelines at risk to EIL							
82	Roads and Bridges	Loboc, Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao,	Support in the identification & assessment or roads and bridges	Database of identified and assessed roads and bridges that are susceptible to EIL	Database of identified and assessed roads and bridges that	Database of identified and assessed roads and bridges that	PEO, PDRRMO, PPDO	DPWH, DENR



			San Isidro, Sevilla, Valencia, Candijay, Bilar, Alicia,	that are susceptible to EIL		are susceptible to EIL	are susceptible to EIL		
83		Schools	Sikatuna, Batuan, Lila, Guindulman, Pilar, Corella, Balilihan, Catigbian, Clarin, Tubigon,	Support in the identification & assessment of schools that are susceptible to EIL	Database of identified and assessed schools that are susceptible to EIL	Database of identified and assessed schools that are susceptible to EIL	Database of identified and assessed schools that are susceptible to EIL	PDRRMO, PPDO	DEPED
84		Resettlement sites/ Evacuation Center	Calape, Loon, Maribojoc, Antequera, Buenavista, Inabanga, Sikatuna, Albur, Loay, Cortes, Carmen Dagohoy, San Miguel, Mabini,	Support in the identification & assessment resettlement sites & evacuation areas provincewide	List of identified and assessed resettlement sites & evacuation areas provincewide	List of identified and assessed resettlement sites & evacuation areas provincewide	List of identified and assessed resettlement sites & evacuation areas provincewide	OPSWD, PDRRMO, PPDO	DSWD
		Roads and Bridges,	Anda, Trinidad, Ubay,	Construct slope protection on		Completed slope	1 Completed		MLGU,
85		Schools, Resettlement sites/ Evacuation Center		landslide prone areas along major roads, and communities		protection in 1 priority area ?	slope protection in priority area?	PEO, DPWH	DPWH, ODA
			Jagna, Tagbilaran City, Valencia, Dauis, Panglao		Occupated and	Completed and approved Survey	Completed and approved Survey Report		
86	SINKHOLE	Support to the reduction of population at risk to sinkholes	Baclayon (Pamilacan Is.), Panglao (Balicasag Is.), Carmen, Sierra Bullones, Pilar, Bilar, Batuan, Balilihan, Catigbian, San Isidro, Sevilla, Antequera, Cortes, Maribojoc, Tubigon, Calape, Sikatuna,	Conduct of ground surveying and monitoring	Completed and approved Survey and Monitoring Report for Phase 1: Jagna, Carmen, Sierra Bullones, Pilar, Bilar, Batuan, Sevilla, Loay	and Monitoring Report for Phase 2: Valencia, Dauis, Panglao, Baclayon (Pamilacan Is.), Panglao (Balicasag Is.), Antequera, Cortes, Loboc	for Phase 3: Tagbilaran City, Tubigon, Calape, Sikatuna, Corella, Catigbian, San Isidro, Maribojoc, Balilihan	PDRRMO and targeted MC/MLGUs	MGB, OCD7, PHIVOLCS , DENR, DPWH



				Loboc, Corella, Loay						
	87				Facilitate in the conduct of Karst Subsidence Hazard Assessment by MGB	1 Karst Subsidence Hazard Assessment by MGB per LGU - Phase 1	1 Karst Subsidence Hazard Assessment by MGB per LGU - Phase 2	1 Karst Subsidence Hazard Assessment by MGB per LGU - Phase 3	PDRRMO and targeted MC/MLGUs	MGB, OCD7, PHIVOLCS , DENR, DPWH
	88				Updating of Hazard Maps for Sinkhole	8 Digitized hazard maps for identified C/MLGUs - Phase 1	8 digitized hazard maps for identified C/MLGUs- Phase 2	8 digitized hazard maps for identified C/MLGUs- Phase 3	PDRRMO and targeted MC/MLGUs	MGB, OCD7, PHIVOLCS , DENR, DPWH
	89				Installation of No Build Zone/NO Dumping Signages for identified areas	10 sites installed with No Build Zone/Dumping Site signages	10 sites installed with No Build Zone/Dumping Site signages	10 sites installed with No Build Zone/Dumping Site signages	PDRRMO, PEO, PPDO	MGB, OCD7, DILG
	90		Support to the reduction of built-up areas at	Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Tubigon, Talibon Jagna, Carmen, Loon, Cortes,	Support to C/MLGUs to develop / update of Climate and Disaster Risk Assessment	CDRA results of identified C/MLGUs	CDRA results of identified C/MLGUs		PDRRMO and targeted MC/MLGUs	DILG, MGB, OCD7, DHSUD
	91		risk to sinkholes	Maribojoc, Trinidad, Calape, Candijay, Dauis	Facilitate on the Cordoning/Fencing of identified Sinkhole areas	10 sites cordoned/fenced	10 sites cordoned/fenced	10 sites cordoned/fence d	PDRRMOand targeted MC/MLGUs	DILG, MGB, DHSUD
			_	MLGU with major ports and sub ports					OPV PDRRMO	BAI-VQS MLGU
		AFRICAN SWINE FLU (ASF)	Prevent vulnerability and exposure of local swine to ASF	Coastal MLGU facing ASF affected Areas	Strengthening Border Control	Set-up Border control in major ports and sub ports			FURRINO	DA PCG
		(noi)	viral infection	Rest of MLGU		porto ana odo porto				PPA
!	92									Private groups



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93	3			Management of Disease Control and Eradication	Reviewed and approved on				
94	1			establishment of protocol/guidelines on disease investigation and definition of disease cases	disease investigation and definition of disease cases				
9!	5			full operation of veterinary quarantine service in all ports and airport	Operational quarantine service in all ports and airport				
90	5			hiring of Veterinary Quarantine Inspectors					
97	7			Procurement of equipment, supplies and materials					
98	3			Implementation of issued provincial policies on ASF	Enforced issued provincial policies on ASF in affected areas				
99	•			Implementation and enforcement of issued provincial policies	Implementation of issued provincial policies on ASF	Enforced issued provincial policies on ASF in affected areas			
100				Conduct of Information Education and Advocacy Campaign on ASF	48 C/MLGUs aware of ASF				



101				enactment of Provincial and Municipal Ordinances on the creation of ASF council and task force with roles and responsibilities	ASF council and task force established at the provincial and C/MLGU level			OPV, MLGU	DA
103				and and	prevention program			OI V, MEGO	
104				geotagging and geo-mapping of farms					
105				Weekly disease monitoring and reporting system	Accomplished monitoring report on the ASF cases	Accomplished monitoring report on the ASF cases	Accomplished monitoring report on the ASF cases	OPV, MLGU	DA
106		Assist C/MLGUs in the operationalizatio n of Municipal Epidemiology and Surveillance Units	All C/MLGUs	Ordinance on the establishment of MESU in all C/MLGUs	48 C/MLGUs with established MESU			PHO	SP
107	OUTBREAK OF INFECTIOUS DISEASES	Assist C/MLGUs in ensuring access to safe water to Bolanons before and during disaster or emergencies	All C/MLGUs	Organization of Water Quality Monitoring (Policy Support)	WQM Team established with policy support in all C/MLGUs			PHO	MLGU, DOH
108		Assist C/MLGUs in ensuring access to safe water to Bol- anons before and	All C/MLGUs	Zero Open Defecation (ZOD)Technical assistance	40% of all Barangays ZOD	50% of all Barangays ZOD	70% of all Barangays ZOD	PHO, C/MHOs?	MLGU, DOH



		during disaster or emergencies							Ì
109	EDEID	Assist C/MLGUs in policy	All C/MLGUs	Protocol on the allocation of Isolation beds during EREID Outbreaks	Ordinance approved and funded		PHO	DOH, PDRRMO, C/MHO	
110	EREID	implementation and protocol compliance	All C/MLGUs	Policy Support for the establishment of 24/7 OpCen with budget appropriation	Ordinance approved and funded		PHO	DOH, PDRRMO, C/MHO	



	Thematic Area:				Preparedn	ess			
		Actions specific to the	Short Term Target		Output / Timefram	е		Office/s Responsible	Partner Agencies
	Hazard	province/Actions that the province can do for the component LGUs	(2023-2025)	PPAs	2023	2024	2025		
1				Conduct Drills/Simulation of Pre-emptive Evacuation					
3				Intensify IEC on understanding risk assessment	Increased knowledge on risk assessment in 48 LGUs (Cities, Municipalities)	Increased knowledge on risk assessment in 48 LGUs (Cities, Municipalities)	Increased knowledge on risk assessment in 48 LGUs (Cities, Municipalities)	PLGU, C/MLGUs	DENR, DPWH, MGB, OCD7, PAG-ASA, DHSUD
5	ALL HAZARD			Massive Information Dissemination	Produced and distributed IEC Materials to Provincial offices, all C/MLGUs	Produced and distributed IEC Materials to Provincial offices, all C/MLGUs	Produced and distributed IEC Materials to Provincial offices, all C/MLGUs	PLGU, C/MLGUs	DENR, DPWH, MGB, OCD7, PAG-ASA, DHSUD
7				Organize fora and other related activities	Conducted 48 fora on risk assessment	Conducted 48 fora on risk assessment	Conducted 48 fora on risk assessment	PLGU, C/MLGUs	DENR, DPWH, MGB, OCD7, PAG-ASA, DHSUD
8				Regular conduct of emergency drills	Conducted emergency drills quarterly in schools, C/MLGUs, Province level	Conducted emergency drills quarterly in schools, C/MLGUs, Province level	Conducted emergency drills quarterly in schools, C/MLGUs, Province level	PDRRMO , C/MDRRMOs	
9			All C/MLGUs	DRRMH Planning	48 C/MLGUs, 1 Province	48 C/MLGUs, 1 Province	48 C/MLGUs, 1 Province	PHO, C/MHO	DOH, PDRRMO



10	Assist C/MLGUs in the conduct of DRRMH Planning			Approved and completed DRRMH Plans for 48 C/MLGUs and Province	Approved and completed DRRMH Plans for 48 C/MLGUs and Province	Approved and completed DRRMH Plans for 48 C/MLGUs and Province		
		Deve Disa Prep	pability velopment on aster paredness and sponse	Conduct of DRRM-related trainings, emergency drills and workshops to the PDRRMC, MDRRMOs and LGUs including the response teams and the creation of SRR Team, DANA Team, Accredited Community Volunteers, Information Management Team			PDRRMO	OCV VII, C/MLGUs
				Conduct of series of ladderized Incident Command System (ICS) for PDRRM Council members and other stakeholders and ICS Executive Course for local chief executives and other heads, ICS level1,			PDRRMO, PHO	OCD VII, DILG, DOH



		ICSEC, IP-ICS,			
		LDRRM planning			
		workshop, EOC,			
		Management of			
		the Dead, CSSR,			
		HTEC, BLS-SFA,			
		Mass Casualty			
		Management			
		Training, Training			
		Trailling, Trailling			
		on WASH,			
		MHPSS,			
		Strategic Risk			
		Communication,			
		Training on			
		Nutrition in			
		Emergencies,			
		RDANA, PDNA,			
		ERT and others			
		Conduct of			
		DRRM-CCA			
		Training and			
		advocacies for		OPSWD	DSWD
		vulnerable		OFSVID	טאאט
		sectors and			
		PSWDO			
		personnel			
		 Basic Skills		 	
		training for			
		emergency			
		responders and			
		other volunteer			
		groups/sectors on		DDDDMO	OCD VIII
		disaster		PDRRMO	OCD VII
		preparedness			
		and response,			
		search, rescue			
		and retrieval			
		operations			
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			- conduct benchmarking activities to Gawad Kalasag and eco-tourism areas			
		Conduct of skills upgrading/ enhancement training for the emergency responders of PDRRMO, TaRSIER Tagbilaran, including substations in Ubay, Jagna, Carmen, Loon, Balilihan, Talibon and Candijay and other volunteers including EMS NC II, WaSAR, EMT-B, and others	Upgrading/ Additional equipment for all TaRSIER substation offices Upgrading of the communication equipment at Unified Command Center Capability building training for the establishment of emergency response units upon request of LGUs of Bohol		PDRRMO	
		Support to the activities of the Bohol Association of LDRRM Officers and PDRRMC including its regular meetings	Conduct quarterly meetings with Bohol Association of LDRRM Officers and PDRRMC members		PDRRMO	C/MDRRMOs, PDRRMC Members



		Upgrading/ acquisition of additional disaster response/rescue equipment and other paraphernalia for the TaRSIER 117 and other substations	procurement of SRR and WaSAR equipment		PDRRMO	
		Production of IEC materials on DRRM-CCA	Production of IEC materials on DRRM-CCA provincewide		PDRRMO	C/MLGUs
		Acquisition of Disaster Response and Rescue vehicles	Purchased 2 ambulance for TaRSIER 117 Sub-station, emergency rescue vehicle, sea ambulance, fiberglass speedboat per district and relief operations during disasters and emergencies		PDRRMO	
		Conduct of capacity development to health sector to better manage emerging and re- emerging diseases	capacitate and equip health sector to address diseases during calamities or outbreak provincewide		РНО	DOH, MHO, C/MLGUs



				Conduct of capdev and vulnerability measures to swine stakeholders to reduce risk in livelihood and investment - capacitate organized farmers association and livestock growers on the potential impacts of the hazard	Established and enhanced capacities of LGUs and farmers/livestock growers' stakeholders to eliminate risk of disease contamination affecting livelihood and investment provincewide			OPV, OPA	MAO, C/MLGUs
				Stockpiling of basic emergency supplies/food packs assistance to affected families (food and non-food items)	Purchased relief goods in preparation or in the event a natural or manmade disaster/calamity is predicted (i.e. typhoon, health, EREID, disease outbreak, etc)			OPSWD	DSWD
11	FLOODING TYPHOON, SEVERE WIND	Support to the reduction of population at risk to flooding, typhoon, severe wind	Loboc, Candijay, Inabanga, Antequera, Garcia- Hernandez, Lila, Cortes, Sierra Bullones, Loay, Alburquerque	Conduct training for Provincial personnel and the communities on Pre-emptive Evacuation	Increased knowledge on the processes for pre-emptive evacuation	Increased knowledge on the processes for pre-emptive evacuation including the conduct of simulation exercise	Increased knowledge on the processes for pre- emptive evacuation including the conduct of simulation exercise	PDRRMO, MDRRMOs	OCD7, DILG



	With Island Barangays: Getafe, Talibon, Bien Unido, Pres. CPG, Loon, Ubay, Tubigon, Baclayon						
12		Inventory of existing Evacuation Centers	Complete list of existing evacuation centers in 48 C/MLGUs	Complete list of existing evacuation centers in 48 C/MLGUs	Complete list of existing evacuation centers in 48 C/MLGUs	PDRRMO, C/MC/MLGUs	DSWD, OCD7, DPWH
13		Facilitate the preparation of design and feasibility study of proposed evacuation centers	Developed appropriate, gender-sensitive, safe, and inclusive design for evacuation center			PDRRMO, C/MC/MLGUs , PEO	DSWD, OCD7, DPWH
14		Establishment of additional Standard Evacuation Centers		Constructed 2 evacuation centers in 2 prioritized C/MLGU	Constructed 2 evacuation centers in 2 prioritized C/MLGU	PDRRMO, C/MC/MLGUs , PEO	OCD, DPWH,
15		Inventory of existing DRRM related Equipment and identification of needs	Complete list existing DRRM related Equipment Needs assessed based on the current condition of the PDRRMO			PDRRMO	Concerned National Agencies and Offices



16		Preparation of requests and project proposals Facilitate in the sourcing of funds	Tapped possible partners (both public & private) for possible sources				
18		Facilitate procurement of equipment Provision of modern and state-of-the-art DRRM-related Equipment (Boom Trucks, Rescue Vehicles & Satellite /Handheld Radios)			Obtained equipment for the province	PDRRMO, Budget Office	
20		Facilitate in the provision/stockpiling/ prepositioning of nutritious relief goods Coordination with NGAs and other stakeholders for the provision of nutritious relief goods	Available stockpiles for 200 families	Available stockpiles for 200 families	Available stockpiles for 200 families	PSWDO	DSWD, Concerned National Agencies and other Offices, MLGUs
22		Formulate training design	Training design developed based on the need of the PDRRMC			PDRRMO	OCD7, DILG
23		Conduct of Capacity Building Activities in coordination with concerned NGAs and	Trained PDRRMC members with EOC, ICS, PSCP, and CP			PDRRMO	OCD7, DILG



		other stakeholders for PDRRMC					
24		Provide capacity building for priority C/MLGUs	Identified priority trainings for C/MLGU	Trained C/MLGUs on disaster preparedness and management	Trained C/MLGUs on disaster preparedness and management	PDRRMO	OCD7, DILG
25		Promote the establishment of Quick/Emergency Response Units in all MC/MLGUs	Suggestion: Increased awareness on the importance of Quick/Emergency Response Units of the C/MLGUs	Initiated creation of Quick/Emergenc y Response Units in 48 C/MLGUs		PDRRMO	OCD7, DSWD, C/MLGUs Concerned National Agencies and other Offices
26		Coordination with concerned parties on the existence of hazardous structures/trees in their respective areas				PDRRMO, PEO, BPEMO	C/MLGUs, C/MDRRMO, Concerned National Agencies and other Offices
27		Facilitate the implementation of directives, memoranda or, orders relative to the clearing or abatement of hazardous structures	Issuance of notices, directives, memoranda, or orders by concerned offices or agencies			PDRRMO, PEO	C/MLGUs, C/MDRRMO, Concerned National Agencies and other Offices



28			Pruning of hazardous trees and clearing or abatement of hazardous structures in coordination with concerned offices and agencies	Implemented pruning of hazardous trees in high-risk areas	Implemented pruning of hazardous trees in high- risk areas	PDRRMO, PEO	C/MLGUs, C/MDRRMO, Concerned National Agencies and other Offices
	Support to the reduction of agricultural a at risk to Floor Typhoon, Sev Wind	Bilar, Carmen, Balilihan,	Intensify IEC on understanding risk assessment			OPA	MAO, MLGUs, DA
		Nipa Plantation: Cortes (nipa), Maribojoc (nipa), Loboc, Inabanga, Loay	Organize fora and other related activities to nipa farmers		OPA	MAO, MLGUs, DA	OPA
	Support to the reduction of critical facilit and lifelines risk to Floodin Typhoon, Sev Wind	ies at g,					



	Evacuation Centers	All C/MLGUs	Complete list of existing evacuation centers in 48 C/MLGUs	Developed appropriate, gender-sensitive, safe, and inclusive design for the evacuation center	Trained 50 % of the C/MLGUs on camp coordination and camp management	Trained 50% of the C/MLGUs on camp coordination and camp management	OPSWD, PDRRMO	DSWD, MSWDO
	Operation Centers	All C/MLGUs at risk to flooding, typhoon, and severe wind	Trained PDRRMC members with ICS and EOC Trained C/MLGUs with ICS, EOC, and Technical Search and Rescue Trainings Acquired modern and state-of-the-art DRRM-related Equipment (Boom Trucks, Rescue Vehicles & Satellite /Handheld Radios)	Trained PDRRMC members with ICS and EOC Trained 50% of the C/MLGUs with ICS, EOC, and Technical Search and Rescue Trainings	Trained 50% of the C/MLGUs with ICS, EOC, and Technical Search and Rescue Trainings	PDRRMO	PDRRMO, OCD VII	
	Support to the reduction of built-up areas at risk to Flooding, Typhoon, Severe Wind	Tagbilaran City, Urbanizing Municipalities: Tubigon, Talibon, Ubay, Panglao, Dauis, Jagna, Loon	Trained PDRRMC members with ICS and EOC Trained C/MLGUs with ICS, EOC, and Technical Search and Rescue Trainings Initiated creation of Quick/Emergency	Provincewide	Provincewide	Provincewide	PDRRMO	C/MDRRMOs, C/MLGUs, OCD VII



			Response Units in 48 C/MLGUs				
	Support to the reduction of environmental areas at risk to Flooding, Typhoon, Severe Wind	Priority 16 Protected Areas in Bohol	Review implementation of Protected Area Management Plan	Talibon Group of Islands Protected Landscape and Seascape: Getafe, Bien Unido, Talibon,			
			Inventory of affected communities to flooding due to severe typhoons, rain and winds Conduct of evacuation drills of affected residents	Ubay, CPG, Tubigon, Loon Chocolate Hills Natural Monument: Carmen, Sagbayan, Batuan, Bilar	Panglao Island Protected Seascape: Panglao, Dauis Loboc Watershed Forest Reserve: Loboc, Bilar	Tubigon Group of Islands Mangrove Swamp Forest Reserve / Wilderness Area: Tubigon	
			Capacity Development on the early warning systems	Alburquerque- Loay-Loboc Protected Landscape / Seascape: Alburquerque, Loay, Loboc President Carlos P. Garcia Mangrove Swamp Forest Reserve: Pres. CPG	Alejawan- Cansuhay- Anibongan River Watershed Forest Reserve: Jagna, Duero Inabanga Wilderness Area and Mangrove Swamp Forest Reserve: Inabanga	Calape Group of Islands Mangrove Swamp Forest Reserve and Wilderness Area: Calape Cabilao Sandingan Islands, Mangrove Swamp	



					Ubay Mangrove Swamp Forest Reserve: Ubay	Getafe Group of Islands Mangrove Swamp Forest Reserve/Wildern ess Area: Getafe	Forest Reserve: Loon Candijay- Anda-Mabini Mangrove Swamp Forest Reserve and Wilderness Area: Candijay, Anda, Mabini		
		Support to the reduction of heritage areas and tourism sites at risk to Flooding, Typhoon, Severe Wind (For validation with NHCP)	Talibon, Sierra Bullones, Pilar, Guindulman, Duero	Conduct of DRRM related trainings, emergency drills and workshops to PDRRMC, MDRRMOs and LGUs including the response teams	50% of the C/MDRRMOs and C/MLGUs trained on ICS, EOC	50% of the C/MDRRMOs and C/MLGUs trained on ICS, EOC		PDRRMO	OCD VII
		Support to the reduction of population at risk to drought		Production of IEC materials on DRRM-CCA to ccommunities				PDRRMO	C/MLGUs
29	DROUGHT	Support to the reduction of	Corella, Cortes, Balilihan, Loboc, Danao,	Prepositioning of water truck	3 units water tucks available and accessible	3 units water trucks available and accessible	4 units water trucks available and accessible	PDRRMO, GSO	BFP, C/MLGUs
30		critical facilities and lifelines at risk to drought	Getafe, Ubay, Buenavista, San Miguel, Dagohoy	Conduct Information Education Campaign (IEC) in every municipality on?	Increased knowledge and awareness in 48 LGU	Increased knowledge and awareness in 48 LGU	Increased knowledge and awareness in 48 LGU	PDRRMO	LGU



31			Secure MOU with private water service utilities	3 MOU secured by the province			PDRRMO	Private operated water refilling stations
	Support to the reduction of	All Agricultural Towns (45 Municipalities)	Conduct of capacity development and vulnerability measures to farmers				APO, OPV,	MAO, MLGUs
	agricultural areas at risk to drought	Dams, Irrigation facilities Ubay, San Miguel, Pilar, Talibon (2)	association and livestock growers on the potential impacts of the hazard				PDRRMO	
31	Support to the reduction of heritage areas and tourism sites at risk to drought	Loboc, Cortes, Alburquerque, Loon, Balilihan, Dimiao, Loay, Baclayon, Panglao, Dauis, Inabanga, Danao, Jagna, Talibon, Sierra Bullones, Pilar, Guindulman, Duero	Develop heritage and tourism master plan		Completed and approved Provincial heritage and tourism master plan		PDRRMO, BTO	DOT, Municipal Tourism Office
32			Capacity building for resort, boat operators and guide on DRR- CCA in all tourism sites	Trained resort, boat operators and guide on CCA and DRR	Trained resort, boat operators and guide on CCA and DRR	Trained resort, boat operators and guide on CCA and DRR	PDRRMO	



		Support to the reduction of environmental areas at risk to drought	Priority 16 Protected Areas in Bohol	Review implementation of the Protected Area Management Plan Inventory of affected communities to flooding due to severe typhoons, rain, and winds Conduct of evacuation drills of affected residents Capacity development on the early warning systems	Talibon Group of Islands Protected Landscape and Seascape: Getafe, Bien Unido, Talibon, Ubay, Pres. CPG, Tubigon, Loon Chocolate Hills Natural				
			Indigenous settlements (Badjao)	Conduct IEC in 30 LGUs (based on form 4A)	Increase awareness on the nature of storm surge, to dos, in 10 coastal MLGUs	Increase awareness on the nature of storm surge, to dos, in 10 coastal MLGUs	Increase awareness on the nature of storm surge, to dos, in 10 coastal	PDRRMO	MDRRMO
33		Support to the	Getafe		WILGUS	COASIAI MILGOS	MLGUs		
	STORM SURGE	reduction of population at risk to storm surge	Informal Settlers		Suggestion: 30%	70% of the	100% of the		
34			Bien Unido, Pres. CPG, Talibon Loay, Duero, Lila, Garcia- Hernandez, Jagna	Updating of LDRRM Plan of C/MLGUs	of the C/MLGUs with comprehensive risk-based LDRRMP	C/MLGUs with comprehensive risk-based LDRRMP	C/MLGUs with comprehensiv e risk-based LDRRMP	PDRRMO, C/MDRRMOs	OCD VII



			Assist Barangay in the updating of BDRRM Plan (30%)				
35		Organize Emergency Response Teams (ERTs)	Established 10 ERTs	Organized and capacitated ERT to 10 coastal LGUs	Organized and capacitated ERT to 10 coastal LGUs	PDRRMO	C/MLGUs
37		Clustering of C/MLGUs for capacity development	Identified C/MLGUs with similar needs of capacity development			PDRRMO	C/MLGUs, OCD VII
38		Facilitate the necessary documents for the insurance coverage (DRRM Council Approval and SP Resolution)	100% of the responders and 10% of community volunteers insured	100% of the responders and 10% of community volunteers insured	100% of the responders and 10% of community volunteers insured	PDRRMO	
39		Capacity development for responders and community volunteers	3 trainings conducted to responders of 30 coastal MLGUs	Updating and upgrading of trainings	Updating and upgrading of trainings	PDRRMO	
40		Trained pool of trainers for MHPSS	10 coastal MLGUs trained on MHPSS	10 coastal MLGUs trained on MHPSS	10 coastal MLGUs trained on MHPSS	OPSWD, PHO	
41		Conduct of BRGY Emergency Drills	2 drills participated by the Barangays	2 drills participated by the Barangays	2 drills participated by the Barangays	PDRRMO	C/MLGU
42		Stockpiling of food and non-food items	Available food and non-food	Available food and non-food	Available food and non-food items for	OPSWD	DSWD



				items for 500 HH/families	items for 500 HH/families	500HH/familie		
43			Updating of Contingency Plan		Improved and revised 3 CPs for typhoon, severe wind, and flooding		PDRRMO	OCD VII
44			Procurement of wing van for relief operations	Acquired wing van for relief operations in affected areas	Yearly maintenance routine of wing van	Yearly maintenance routine of wing van	PSWDO, PDRRMC	
45			Construction of warehouse	Standard warehouse operational	Managed and maintained warehouse	Managed and maintained warehouse	PSWDO, PDRRMC	DSWD,
46			Establishment of DRRM Database or Management Information System per LGU	Database/MIS set-up and operational in 15 MLGUs	Database/MIS set-up and operational in 15 MLGUs	Database/MIS set-up and operational in 18 LGUs	PDRRMO, PPDO	C/MLGUs, C/MDRRMOs
47			Distribution of Evacuation routes to community	Increased awareness and familiarity of communities on the evacuation routes			OPSWD, PDRRMO	DSWD
	Support to the reduction of critical facilities and lifelines at risk to storm surge							
	Roads and Bridges	Dauis, Baclayon, Albuquerque, Lila	Conduct training for the officer-in-charge and personnel for critical facilities and lifelines (emergency management	Trained the officer-in-charge and personnel for critical facilities and lifelines on emergency	Conducted 2 trainings of the officer-in-charge and personnel for critical facilities and	Conducted 2 trainings of the officer-in- charge and personnel for critical	PDRRMO- TaRSIER 117	OCD7
48			training)	management	lifelines on	facilities and		MDRRMO



				training for 10 coastal MLGUs	emergency management training to 10 coastal MLGUs	lifelines on emergency management training to 10 coastal MLGUs		
	Support to the reduction of agricultural areas at risk to storm surge							
49	Agriculture areas		Capacitate farmers and livestock growers on the potential impacts of the hazard	Capacitated 100% of organized farmers association and livestock growers on the potential impacts of the hazard to 10 coastal MLGUs	Capacitated 100% of organized farmers association and livestock growers on the potential impacts of the hazard to 10 coastal MLGUs	Capacitated 100% of organized farmers association and livestock growers on the potential impacts of the hazard to 10 coastal MLGUs	OPA/OPV	
50	Support to the reduction of built-up areas at risk to storm surge	Bien Unido, Talibon, Panglao, Baclayon, Jagna, Pres. Carlos P. Garcia, Valencia, Garcia- Hernandez	Capacitate MSMEs staff and communities within the built-up areas on emergency management of the hazard	Capacitated 100% MSMEs managers within the built-up areas on emergency management of the hazard to 10 coastal MLGUs	Capacitated 100% MSMEs managers within the built-up areas on emergency management of the hazard to 10	Capacitated 100% MSMEs managers within the built-up areas on emergency management of the hazard to 10 coastal	PDRRMO- TaRSIER 117	OCD7/
	Microbusinesses, MSMEs, Remittance Center	Ubay, Dimiao		COASIAI IVILGUS	coastal MLGUs	MLGUs		MDRRMO



		Support to the reduction of environmental areas at risk to storm surge							
51		River basins / Watershed	Inabanga, Trinidad	Updating of protected area management plans to include the potential impacts of tsunami and storm surge	Updated 6 protected area management plans	Updated 5 protected area management plans	Updated 5 protected area management plans	PDRRMO- TaRSIER 117	OCD7/ MDRRMO
52				Capacitate the executive committee of the protected area management board on emergency management of the hazard		Capacitated the executive committee of the 5 protected area management board on emergency management of the hazard	Capacitated the executive committee of the 5 protected area management board on emergency management of the hazard		
53		Support to the reduction of heritage areas and tourism sites at risk to storm surge	Panglao, Dauis, Anda, Cortes, Baclayon, Loon, Maribojoc, Dauis, Alburquerque	Capacitate the site managers on emergency management of the hazard	100% site managers with acquired skills on emergency management of the hazard in 10 coastal MLGUs	100% site managers with acquired skills on emergency management of the hazard in 10 coastal MLGUs	100% site managers with acquired skills on emergency management of the hazard in 10 coastal MLGUs	PDRRMO- TaRSIER 117	OCD7/MDRRMO/ DIOCESE/NM/D OT
	TSUNAMI	Support to the reduction of population at risk to tsunami	Indigenous settlements (Badjao)	Conduct IEC in 30 LGUs (based on form 4A)	Increase awareness on the nature of storm surge, to dos, in 10 coastal MLGUs	Increase awareness on the nature of storm surge, to dos, in 10 coastal MLGUs	Increase awareness on the nature of storm surge, to dos, in 10	PDRRMO	MDRRMO



		Informal Settlers Bien Unido, Pres. CPG, Talibon, Loay Duero, Lila, Garcia	Updating of LDRRM Plan of C/MLGUs	Suggestion: 30% of the C/MLGUs with comprehensive risk-based	70% of the C/MLGUs with comprehensive risk-based LDRRMP	coastal MLGUs 100% of the C/MLGUs with comprehensiv e risk-based	PDRRMO, C/MLGUs	OCD VII
		Hernandez, Jagna		LDRRMP		LDRRMP		
	Support to the reduction of critical facilities and lifelines at risk to tsunami							
	Roads and Bridges	Dauis, Baclayon, Albuquerque, Lila, Guindulman, Anda, Duero	Conduct training for the officer-in-charge and personnel for critical facilities and lifelines (emergency management training)	Trained the officer-in-charge and personnel for critical facilities and lifelines on emergency management training for 10 coastal MLGUs	Conducted 2 trainings of the officer-in-charge and personnel for critical facilities and lifelines on emergency management training to 10 coastal MLGUs	Conducted 2 trainings of the officer-in-charge and personnel for critical facilities and lifelines on emergency management training to 10 coastal MLGUs	PDRRMO- TaRSIER 117	OCD7, MDRRMO
	Support to the reduction of agricultural areas at risk to tsunami	Cortes, Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Albuquerque, Baclayon, Panglao,	Capacitate farmers and livestock growers on the potential impacts of the hazard	Capacitated 100% of organized farmers association and livestock growers on the potential impacts of the	Capacitated 100% of organized farmers association and livestock growers on the potential	Capacitated 100% of organized farmers association and livestock growers on the potential	OPA/OPV	Capacitate farmers and livestock growers on the potential impacts of the hazard



		Dauis, Mabini, Ubay		hazard to 10 coastal MLGUs	impacts of the hazard to 10 coastal MLGUs	impacts of the hazard to 10 coastal MLGUs		
	Support to the reduction of built-up areas at risk to Tsunami	Cortes,						
	Microbusinesses, MSMEs, Remittance Center	Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Alburquerque, Baclayon, Panglao, Dauis	Capacitate MSMEs staff and communities within the built-up areas on emergency management of the hazard	Capacitated 100% MSMEs managers within the built-up areas on emergency management of the hazard to 10 coastal MLGUs	Capacitated 100% MSMEs managers within the built-up areas on emergency management of the hazard to 10 coastal MLGUs	Capacitated 100% MSMEs managers within the built-up areas on emergency management of the hazard to 10 coastal MLGUs	PDRRMO- TaRSIER 117	OCD7/
	Support to the reduction of environmental areas at risk to tsunami							
	River basins / Watershed	Inabanga, Trinidad	Updating of protected area management plans to include the potential impacts of tsunami and storm surge	Updated 6 protected area management plans	Updated 5 protected area management plans	Updated 5 protected area management plans	PDRRMO- TaRSIER 117	OCD7/ MDRRMO
	Mangrove Cover	Tubigon, Getafe, Clarin, Calape, Loon, Maribojoc	Capacitate the executive committee of the protected area management board on emergency management of the hazard		Capacitated the executive committee of the 5 protected area management board on emergency	Capacitated the executive committee of the 5 protected area management board on		



		Support to the	Lila, Loay, Alburquerque, Baclayon	Capacitate the site	100% site managers with	management of the hazard 100% site managers with	emergency management of the hazard 100% site managers with acquired		
		reduction of heritage areas and tourism sites at risk to tsunami	Panglao, Dauis, Anda, and all protected seascapes	managers on emergency management of the hazard	acquired skills on emergency management of the hazard in 10 coastal MLGUs	acquired skills on emergency management of the hazard in 10 coastal MLGUs	skills on emergency management of the hazard in 10 coastal MLGUs	PDRRMO- TaRSIER 117	OCD7/MDRRMO /DIOCESE/NM/D OT
54	RAIN-INDUCED LANDSLIDES	support to the reduction of population at risk to RIL	Loboc , Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar (not too severe) Catigbian, Inabanga, Balilihan, Antiquera, San Miguel	Installation of standard reflectorized early warning signages (4X4)	Installed visible, clear early warning signages in strategic areas	number of Visible, clear early warning signages installed in strategic areas	number of Visible, clear early warning signages installed in strategic areas	PDRRMO, LGU	
55				IEC dissemination on RIL	LGUs with acquired knowledge on RIL	LGUs with acquired knowledge on RIL	LGUs with acquired knowledge on RIL	PDRRMO, LGU	
56				Activation of evacuation plan for every LGU's				PDRRMO, LGU	



57				Conduct Collapsed Structure Search and Rescue training (CSSR) for 48LGU' Responders	Trained 48 C/MLGUs with Collapsed Structure Search and Rescue			PDRRMO, TaRSIER, PEO	C/MLGUs, DPWH, BFP
58				Procurement for Disaster response equipmen t (for SRR and EMS) and PPE's	48 C/MLGUs Available response equipmen t and PPEs	Available response equipment and PPEs	Available response equipment and PPEs	PDRRMO, PEO	LGU, DPWH, NIA, BOHECO
59	EARTHQUAKE, GROUND SHAKING, LIQUEFACTION	Support to the reduction of population at risk to earthquake, ground Shaking, liquefaction	C/MLGUs near East Bohol Fault (epicenter at Jagna, SW propagation), and South Offshore Fault: Jagna, Tagbilaran City, Corella, Valencia, Dauis, Panglao, Loay, Baclayon (Pamilacan Is.), Panglao (Balicasag Is.), Loboc, Carmen, Sierra Bullones, Pilar, Bilar, Batuan, Balilihan, Catigbian, San	Conduct information dissemination on what to do before during, and after disaster	100 highly susceptible barangays increased awareness on the impacts of ground shaking, liquefaction	100 highly susceptible barangay s increased awareness on the impacts of ground shaking, liquefaction	100 susceptible barangays conducted IEC increased awareness on the impacts of ground shaking, liquefaction	PDRRMO	LGU, DILG, OCD7



		Isidro, Sevilla, Antequera, Cortes, Maribojoc, Tubigon, Calape, Sikatuna						
60			Conduct Drills to various offices and schools	5 schools, 5 offices and 2 hospitals participated in earthquake drills	5 schools, 5 offices and 2 hospitals participated in earthquake drills	5 schools, 5 offices and 2 hospitals participated in earthquake drills	PDRRMO	OCD7, MC/MLGUs, Barangays
61			Create & Train Collapse Structure Search and Rescue Team	PGBh, Tagbilaran City with knowledge and skills on Collapse Structure Search and Rescue			PDRRMO	Tagbilaran City
62			Establish Evacuation Center for communities highly susceptible to hazards	Site identified and validated for Evacuation Center Passed the set of standards required by DSWD	Purchased of lot that passed standards set by MGB and PHIVOLCS	1 constructed evacuation center to cater affected communities	PPDO, PDRRMO	DSWD, DPWH
	Support to the reduction of built-up at risk to earthquake, ground Shaking, liquefaction	Jagna, Tagbilaran City, Valencia, Dauis, Panglao	Conduct of DRRM related trainings, emergency drills and workshops to C/MDRRMC, C/MDRRMOs and response teams including volunteers	Trainings and emergency drills conducted to the reponders and volunteers to identified C/MDRRMC, C/MLGUs			PDRRMO, TaRSIER 117	



	Support to the reduction of agricultural a at risk to earthquake, ground Shaki liquefaction	reas Garcia- Hernandez, Loay, Jagna, Alburquerque,	Conduct capacity development to farmers association and livestock growers on the potential impacts of the hazards	Production of IEC materials on DRRM-CCA	PDRRMO	C/MDRRMOd
	Support to the reduction of critical facilit and lifelines risk to earthque ground Shakiliquefaction	i es at ake,	Conduct IEC on and increased awareness on the impacts of earthquake, ground shaking, and liquefaction		PDRRMO	C/MLGUs
			Conduct emergency drills and workshops			
63	Communication	Jagna, ons Tagbilaran, All cell sites	Establish Satellite- based internet connectivity using alternate source of power i.e., photovoltaic-based (solar) power system, portable power generator, etc.	PGBh with access to internet and power system	PGBh (BICTO)	NTC
64			Establish Single Side Band (SSB) Radio Communication System (ICOM SSB system)	47 municipalities and 1 city with operational SSB Radio Communication System	PDRRMO	MC/MLGUs
	Municipal Hal	Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Interior and	Conduct emergency drills and IEC on to increase awareness on the impacts of the hazards		PDRRMO	C/MLGUs



5	Schools	South Municipalities Tagbilaran City	Conduct emergency drills and IEC on to increase awareness on the impacts of the		PDRRMO	C/MLGUs
E	Evacuation centers	Jagna, Tagbilaran City, Valencia, Panglao	Construction of resilient and standard compliant evacuation centers	Construction of resilient and standard compliant evacuation centers in each of the 3 districts of Bohol	PSWDO, PDRRMO	DSWD, other NGAs
ŀ	Hospitals	Valencia, Tagbilaran City, Jagna	Conduct emergency drills and IEC on to increase awareness on the impacts of the hazards	Conduct emergency drills and IEC on to increase awareness on the impacts of the hazards on thr hospitals located in the 3 C/MLGUs	PDRRMO	C/MLGUs
F	Ports	Jagna, Garcia- Hernandez, Loay, Ubay, Tagbilaran	Conduct emergency drills and IEC on to increase awareness on the impacts of the hazards	Conduct emergency drills and IEC on to to the ports located on the identified MLGUs	PDRRMO	MLGUs, PPA
r e a c	Support to the reduction of environmental areas at risk to earthquake, ground Shaking, liquefaction	Watershed: Garcia- Hernandez (Manaba river)	Installation of visible Early Warning System	Installation of visible early Warning System per watershed area	PDRRMO, BPEMO	C/MLGUs



		Support to the reduction of heritage areas and tourism sites at risk to earthquake, ground Shaking, liquefaction	Centennial Churches: Baclayon, Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Lila, Dimiao, Alburquerque, Loay, Garcia- Hernandez, Cortes, Maribojoc, Loon, Calape,Baliliha n, Albur	Conduct emergency drills and IEC on to increase awareness on the impacts of the hazards				
65	EARTHQUAKE INDUCED LANDSLIDE (EIL)	Support to the reduction of population at risk to EIL	Loboc , Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar, Alicia, Sikatuna, Batuan, Lila,	Formulation/ Preparation/ reproduction of laymanized DRR- CCA materials	Laymanized IEC materials		PDRRMO	DILG



66	Guindulman, Pilar, Balilihan, Catigbian, Clarin, Tubigon, Calape, Loon, Maribojoc, Antequera, Buenavista, Inabanga, Sikatuna, Albur, Loay, Cortes, Carmen Dagohoy, San Miguel, Mabini, Anda, Trinidad, Ubay, Corella	Distribution of laymanized IEC materials on DRR- CCA	1,116 Public Schools, 1109 Barangays, All Government Offices			PDRRMO, MDRRMOs/ BALDRRMO	DEPED
67	48 C/MC/MLGUs	Conduct of USAR and SAR Training to Organized MLGU Response Teams	1 training conducted	1 training conducted	1 training conducted	PDRRMO and targeted MC/MLGUs	OCD7
68	20 provincial personnel	Conduct of Collapsed Structure Search and Rescue (CSSR) for TaRSIER 117 Personnel	1 CSSR training conducted for 10 personnel of TaRSIER 117	1 CSSR training conducted for 10 personnel of TaRSIER 117		PDRRMO/ TaRSIER 117	
69		Purchase of Disaster Response Equipment -SRR, EMS, CSSR		1 set of Response Equipment for SRR, EMS, CSSR		PDRRMOPD RRMO/ TaRSIER 117	
70		Formulation / Updating of Contingency Plan for EIL	1 formulated/ updated CP for EIL			PDRRMO	OCD7, DILG



71			Formulation of Disaster Response Operations Manual	1 DROM formulated		PDRRMO	OCD7
	Support to the reduction of built-up areas at risk to EIL	Sagbayan, Garcia- Hernandez, Duero, S. Bullones, Jagna, Calape, Bilar, Batuan	Conduct capability building on USAR, SAR, and CSSR				
			Initiate creation of Quick/Emergency Response Units in 48 C/MLGUs				
	Support to the reduction of critical facilities and lifelines at risk to EIL						
	Roads and Bridges	Loboc, Bilar, Loay, Catigbian, Balilihan LGUs traversing/ near East Bohol Fault; LGUs extending to north west of Bohol	Construction and maintenance of drainage systems Improvement and retrofitting of the weak existing structures			PEO	DPWH, MLGUs, other NGAs



		Evacı	cuation centers	LGUs traversing/ near East Bohol Fault; LGUs extending to northwest of Bohol	Construction of resilient and standard compliant evacuation centers	Construction of resilient and standard compliant evacuation centers in each of the 3 districts of Bohol			OPSWD, PDRRMO	DSWD
7	2			(Majority) Corella, Lila, Loboc, Sevilla,	Intensify IEC on DRRM-CCA to the barangay level or purok level	Increased awareness on DRRM-CCA to the barangay level or purok level			PDRRMO	MCD CCD7
7	1	reduc	Support to the reduction of	Dauis, Valencia, Guindulman, Anda, Sierra Bullones, San Isidro, Tubigon, Catigbian, Antequera,	ncia, dulman, i, Sierra nes, San o, Tubigon, Conduct of IEC Program on KARST Subsidence	Laymanized IEC materials DRRM Orientation on KARST Subsidence hazard	Laymanized IEC materials DRRM Orientation on KARST Subsidence hazard	Laymanized IEC materials DRRM Orientation on KARST Subsidence hazard	and targeted MC/MLGUs	MGB, OCD7, DILG
7	SINKHOL	.E popu	ulation at risk nkholes	Calape, Cortes (Portions)	Conduct of Risk Communication Training	1 training conducted	1 training conducted	1 training conducted	PDRRMO	OCD7
7				Panglao, Balilihan, Garcia- Hernandez, Sagbayan, Carmen, Tagbilaran, Maribojoc	Conduct of USAR and SAR Training to Organized Response Teams	1 training conducted	1 training conducted	1 training conducted	PDRRMO and targeted MC/MLGUs	OCD7



77		Support to the reduction of built-up areas at risk to sinkholes	Tubigon, Talibon Jagna, Carmen, Loon, Tagbilaran, Cortes, Maribojoc, Trinidad, Calape, Candijay, Dauis	Purchase of underwater robot and/or rescue drones	1 underwater robot and/ rescue drone purchased	1 underwater robot and/ rescue drone purchased		PDRRMO	
			MLGU with major ports and sub ports		surveillance facilities/tools put in place to ensure surveillance activities are properly carried out	Continue surveillance to ensure surveillance activities are properly carried out	Continue surveillance to ensure surveillance activities are properly carried out	OPV	C/MLGU
	(Animal) Health-	Strict implementation of related veterinary		Establishment of a	Designated surveillance facility/center where all supplies/date are processed			OPV	C/MLGU
78	Related	quarantine policies and local ordinance & related issuances	coastal MLGU facing ASF affected	Provincial Surveillance System	Obtained supplies and materials but not limited to testing kits and other equipment, personnel protective equipment as well as IT equipment for disease case profiling	Obtained supplies and materials but not limited to testing kits and other equipment, personnel protective equipment as well as IT equipment for disease case profiling	Obtained supplies and materials but not limited to testing kits and other equipment, personnel protective equipment as well as IT equipment for disease case profiling	OPV	C/MLGU



79		rest of MLGU	formulation of swine depopulation plan in areas with confirmed positive cases	Developed and approved swine depopulation plan in areas with confirmed positive cases registration and deputation of VBO and BBO				
81			Strengthening Biosecurity Measures	master listing and registration of backyard and commercial farms, breeding and livestock facilities, feed dealers, livestock handlers	continue master listing and registration of new backyard and commercial farms, breeding and livestock facilities, feed dealers, livestock handlers	continue master listing and registration of new backyard and commercial farms, breeding and livestock facilities, feed dealers, livestock handlers		
82	Support to the LGUs to eliminate risk of disease contamination		Capability building and operationalization of task forces and conduct of advocacy campaign	Trained 20 C/MLGUs with management and elimination of risk of disease contamination	Trained 15 C/MLGUs with management and elimination of risk of disease contamination	Trained 13 C/MLGUs with management and elimination of risk of disease contamination	OPV	MLGU, BLGU
83	Support to the swine industry stakeholders & partner agencies	swine industry stakeholders & partner agencies	Conduct intensive IEC and orientation	Increase disease awareness and responsibilities among swine industry			OPV	MLGUs, BLGUs



84		Capacitate C/MLGUs in infection prevention and Control of EREID	All C/MLGUs	Training Donning and Doffing of PPEs	stakeholders & partner agencies Trained 50% of C/MLGUs/ All Hospitals on Donning and Doffing of PPEs	Trained 50% of C/MLGUs/ All Hospitals on Donning and Doffing of PPEs	РНО	DOH, PDRRMO, C/MHO
85		Control of Excil	All C/MLGUs	Training on Infection Prevention and Control in Health Facilities	50% of the C/MLGUs/ All Hospitals obtained knowledge and skills on infection prevention and control	50% of the C/MLGUs/ All Hospitals obtained knowledge and skills on infection prevention and control	РНО	DOH, PDRRMO, C/MHO
86	EREID		All C/MLGUs	Training on Philippine Integrated Disease Surveillance and Response	48 C/MLGUs/ All Hospitals obtained knowledge and skills on Integrated Disease Surveillance and Response		РНО	DOH, PDRRMO, C/MHO
87			All C/MLGUs	Training on Event- Based Surveillance System	48 C/MLGUs obtained knowledge on event-Based Surveillance System		РНО	DOH, PDRRMO, C/MHO
88			All C/MLGUs	Training on Clinical Pathway Guidelines on Infectious Diseases	48 C/MLGUs obtained knowledge on Clinical Pathway Guidelines on		РНО	DOH, PDRRMO, C/MHO



			Infectious Diseases				
89	All C/MLGUs	Training on Field Epidemiology Training Program	2 Personnel (1 per HCPN)			DOH	PHO, PDRRMO, C/MHO
90	All C/MLGUs	Procurement of PPEs or prepositioning of PPEs	To be determined	To be determined	To be determined	PDRRMO	DOH, PDRRMO, C/MHO
91	All C/MLGUs	Establish 24/7 Operation Center (Infrastructure)	Constructed an OpCen space to monitor and respond EREID cases			РНО	DOH, PDRRMO, C/MHO
92	All C/MLGUs	BLS Training of Trainers	5 representatives from LGUs with acquired knowledge and skills on BLS	5 representatives from LGUs will acquired knowledge and skills on BLS		РНО	DOH, PDRRMO, C/MHO
93	All C/MLGUs	BLS Training	48C/MLGUs with acquired knowledge and skills on BLS		48 C/MLGUs	PHO	DOH, PDRRMO, C/MHO
94	All C/MLGUs	SFA Training of Trainers	5 representatives from LGUs with acquired knowledge and skills on SFA	5 representatives from LGUs will acquired knowledge and skills on SFA		РНО	DOH, PDRRMO, C/MHO
95	All C/MLGUs	Training on Health Emergency Response Operation	48 C/MLGUs representatives from LGUs Health Emergency with acquired knowledge and skills on			РНО	DOH, PDRRMO, C/MHO



			Response			
96	All C/MLGUs	Mass Casualty Management Training of Trainers	Operation 30 participants with acquired knowledge and skills on Mass Casualty Management		РНО	DOH, PDRRMO, C/MHO
97	All C/MLGUs	Mass Casualty Management Training	24 C/MLGUs with acquired knowledge and skills on Mass Casualty Management	24 C/MLGUs with acquired knowledge and skills on Mass Casualty Management	PHO	DOH, PDRRMO, C/MHO
98	All C/MLGUs	Training on WASH in Emergencies	24 C/MLGUs with acquired knowledge and skills on WASH in Emergencies	24 C/MLGUs	PHO	DOH, PDRRMO, C/MHO
99	All C/MLGUs	Training on MHPSS	24 C/MLGUs with acquired knowledge and skills on MHPSS	24 C/MLGUs with acquired knowledge and skills on MHPSS	PHO	DOH, PDRRMO, C/MHO
100	All C/MLGUs	Training on Nutrition in Emergencies	24 C/MLGUs with acquired knowledge and skills on Nutrition in Emergencies	24 C/MLGUs with acquired knowledge and skills on Nutrition in Emergencies	РНО	DOH, PDRRMO, C/MHO
101	All C/MLGUs	Training on Surveillance on Post Extreme Emergencies and Disasters	24 C/MLGUs with acquired knowledge and skills on Surveillance on Post Extreme Emergencies and Disasters	24 C/MLGUs with acquired knowledge and skills on Surveillance on Post Extreme Emergencies and Disasters	РНО	DOH, PDRRMO, C/MHO



102	All C/MLGUs	Training on Minimum Initial Service Package	24 C/MLGUs with acquired knowledge and skills on Minimum Initial Service Package	24 C/MLGUs with acquired knowledge and skills on Minimum Initial Service Package		PHO	DOH, PDRRMO, C/MHO
103	All C/MLGUs	Training on Sub- PHEMAP	24 C/MLGUs with acquired knowledge and skills on Sub- PHEMAP	24 C/MLGUs with acquired knowledge and skills on Sub- PHEMAP		РНО	DOH, PDRRMO, C/MHO
104	All C/MLGUs	Training on Health and Hygiene promotion	48 C/MLGUs with acquired knowledge and skills on Health and Hygiene promotion			РНО	DOH, PDRRMO, C/MHO
105	All C/MLGUs and Province	PDNA Training on Health	48 C/MLGUs and Province with obtained knowledge on PDNA for health			РНО	DOH, PDRRMO, C/MHO
106	All C/MLGUs and Province	Prepositioning of Health Emergency Supplies/Logistics to C/MLGUs (Hygiene Kits, Family Health Kits, CAMPOLAS, Plus Kits, Essential medicines, HypoSol, Aquatabs, CMAM Commodities, Cadaver bags, Psychosocial First Aid Kit, Equipment and Tools for RNA,	48 C/MLGUs with available and accessible health Emergency Supplies/Logistics as necessary	48 C/MLGUs with available and accessible health Emergency Supplies/Logisti cs as necessary	48 C/MLGUs with available and accessible health Emergency Supplies/Logi stics as necessary	PHO, C/MHO	DOH, PDRRMO,



			Micronutrient Supplements, IYCF, Drinking water container, water purifier bags)				
107		All C/MLGUs or Province level	Procurement of mobile water purifier	mobile water purifier available and accessible to Province and C/MLGUs		РНО	DOH, PDRRMO, C/MHO
108		All Health Facilities	Back-up power supply for all RHUs (Cold Chain)	100% of all RHUs with Back-up power supply that is in good condition		C/MLGUs	DOH, PHO, PDRRMO



	Thematic Area:			Respon	se and Early I	Recovery			
		Actions specific to the province/Action	Short Term Target		Output / Timefran	ne		Office/s Responsibl e	Partner Agencies
	Hazard	s that the province can do for the component LGUs	(2023-2025)	PPAs	2023	2024	2025		
1				Deployment of Relief Teams for Relief goods distribution	Delivered food and non-food	Delivered food and non-food	Delivered food and non-food	OPSWDO, C/MSWDO,	DSWD, private
2				Provision food and non-food items to all affected areas	items to affected areas	items to affected areas	items to affected areas	PDRRMO	sector
3		Augment needs of LGUs affected		Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
4	ALL HAZARD			Provision of alternative source of water and power supply	Tapped available and alternative source of water and power supply	Tapped available and alternative source of water and power supply	Tapped available and alternative source of water and power supply	BPEMO/PE O	OCD7/BFP/PN P
5	ALL HAZARD C			Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH
6				Cash for work activities (emergency assistance to disaster survivors)	families with additional income through cash for activities	families with additional income through cash for activities	families with additional income through cash for activities	OPSWD	DSWD



7	Management of evacuation centers	Direct and systematic operations of Evacuation	Direct and systematic operations of Evacuation	Direct and systematic operations of Evacuation	OPSWD/PH O	DSWD/
8		centers for affected families	centers for affected families	centers for affected families		OCD7
9	Activation of ICS and Evacuation management	ICS and evacuation management	ICS and evacuation management	ICS and evacuation management	PDRRMO- TaRSIER	Related NGAs
10	system	Fully operational, as needed	Fully operational, as needed	Fully operational, as needed	117	
11	Deployment of response teams and rescue equipment	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PDRRMC	OCD7 and other NGAs
12	Deployment of SAR Teams & Search, Rescue & Retrieval operations	SAR teams provided prompt assistance to affected areas	SAR teams provided prompt assistance to affected areas	SAR teams provided prompt assistance to affected areas	PDRRMO- TaRSIER 117	
13 14	Provision of Emergency Medical Services	Assisted and treated affected individuals needing medical attention	Assisted and treated affected individuals needing medical attention	Assisted and treated affected individuals needing medical attention	PHO, C/MHO	DOH Can be for all hazards
15	Support to MLGU Emergency Response (Evacuation, Search & Rescue, Relief Operations)	as needed	as needed	as needed	PDRRMO- TaRSIER 117	Concerned NGAs



	Provision of emergency relief goods/supplies to affected LGUs	As needed	OPSWD	DSWD
	Procurement of medical equipment/ supplies for barangays to respond to calamities/ health emergencies/ outbreak, vaccines, vitamins, drugs and medicines and other laboratory requirements to manage emerging and reemerging diseases such as Covid-19 and other EREID	Provided medical equipment and supplies to barangays to be able to manage/ control the spread of emerging and re- emerging diseases. (P40M) Provide testing kits, vaccines, needed drugs and medicines to affected public in times of calamities and health emergencies	PHO	DOH, C/MLGUs
	Provision of indemnification/incentive funds to affected farmers to control, eradicate and contaminate disease outbreak of hogs and other livestock	Provided indemnity fund to affected farmers/hog growers	OPA, OPV	MAO, C/MLGUs
	Conduct of Post Disaster and Needs Analysis (PDANA) activities	Conducted trainings for disaster assessment and needs analysis (DANA) and post	PDRRMO	OCD VII, C/MLGUs



					DANA capabilities				
				Procurement of fuel (diesel and unleaded) for the continued operation of the COVID-19 and Typhoon Odette response measures	Provided assistance to the affected families			PDRRMO	C/MLGUs
				Deployment of Relief Teams, Emergency Medical Services, SAR/SRR Teams, psychosocial teams	Provide immediate medical services to disaster victims including psychosocial aid			OPSWD, PHO, PDRRMO	DWSD, C/MLGUs
				Provision of human interventions/psychosocial support to affected individuals/families/communities	Provided alternative livelihood relief or assistance or activities to fisherfolks/farmer s and community if crops/livelihood are destroyed after disasters			OPSWD, OPV, OPA	DSWD, MAO, DOLE, Other National Government Agencies
16	Health-related	Monitoring and Supervision of Health Cluster Operations in Evacuation Centers (for outbreak of infectious diseases)	All Evacuation Centers	Deployment of MHPSS, WASH, Medical & NiE Teams	MHPSS, WASH, Medical & NiE Teams provided immediate assistance to affected population, as needed	MHPSS, WASH, Medical & NiE Teams provided immediate assistance to affected population, as needed	MHPSS, WASH, Medical & NiE Teams provided immediate assistance to affected population, as needed	PHO, C/MHO	DOH, LGU, DSWD



17				Conduct of Hygiene Promotion Activities	Hygiene activities are adopted in all evacuation centers as necessary	Hygiene activities are adopted in all evacuation centers as necessary	Hygiene activities are adopted in all evacuation centers as necessary	PHO, C/MHO	DOH, LGU
18				Deployment of Mobile Water Purifier	Mobile purifier available and accessible to affected population, as needed	Mobile purifier available and accessible to affected population, as needed	Mobile purifier available and accessible to affected population, as needed	PHO, C/MHO	DOH, LGU
19		Augmentation of Health Emergency Supplies	All C/MLGUs	Provision (Augmentation) of Health Emergency Supplies	Health emergency supplies are available to C/MLGUs to augment supply gap, as needed	Health emergency supplies are available to C/MLGUs to augment supply gap, as needed	Health emergency supplies are available to C/MLGUs to augment supply gap, as needed	PHO, C/MHO	DOH, LGU
20		Support C/MLGUs in operations and response during emergencies and	1 fixed site and alternate site identified	Operational Emergency Operation Center and One Hospital Command Center	Identified Space or infrastructure available in case of emergency (with policy)			PHO	DOH, LGU
21		disaster		Emergency hiring of EOC Staff	As needed	As needed	As needed	PHO	DOH, LGU
22	FLOODING TYPHOON, SEVERE WIND	Support to the reduction of population at risk to flooding, typhoon, severe wind	Loboc, Candijay, Inabanga, Antequera, Garcia- Hernandez, Lila, Cortes, Sierra Bullones, Loay, Alburguerque	Execution of Memorandum of Understanding with NGAs, NGOs, POs, private groups and other concerned stakeholders for the provision of nutritious relief food items after an emergency	Linkaging and Identification of possible partners:	Delivered nutritious relief food items to affected population		PDRRMO, C/MDRRMO, OPSWD), C/NSWDO	DSWD, NGOs, POs, private groups and other concerned



	With Island Barangays: Getafe, Talibon, Bien Unido, Pres. CPG, Loon, Ubay, Tubigon, Baclayon		Preparation and submission of proposals and requests Execution or signing of MOU Monitoring and follow up partners				
Support to the reduction of	Candijay (AF), Alicia, Guindulman (AF)						
agricultural areas at risk to Flooding, Typhoon, Severe Wind	Pilar, Batuan, Bilar, Carmen, Balilihan, Catigbian, Garcia- Hernandez, Jagna, Sierra Bullones, Dana	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
		Cash for work activities (emergency assistance to farmers and growers)				OPA	MAO, DA, MLGUs
	Nipa Plantation: Cortes (nipa), Maribojoc (nipa), Loboc, Inabanga, Loay	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	Mabini, Sevilla, Buenavista, Ubay, Bein Unido, Calape, Clarin, Talibon, Pres. CPG, Tubigon, Lila, Loon, Inabanga	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs



		Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
Support to the reduction of critical facilities and lifelines at risk to Flooding, Typhoon, Severe Wind		Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
Roads and Bridges:	1ot Diotriot	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
-	1 1st District Abatan Bridge in Cortes, Camayaan Bridge in Cortes	Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH
		Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	2nd District Inabanga, Buenavista, Clarin, Malitbog in Dagohoy	Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH
	3rd District Candijay,	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	Guindulman, Duero, Garcia- Hernandez, Lila, Bilar, Carmen, Batuan, Valencia, Alicia, Loay, Loboc	Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH



	(Agape Bridge and Roads)						
Support to the reduction of built-up areas at risk to Flooding, Typhoon, Severe Wind	Tagbilaran City, Urbanizing Municipalities: Tubigon, Talibon, Ubay, Panglao, Dauis,	Deployment of response teams and rescue equipment	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PDRRMC	OCD7 and other NGAs
Willu	Jagna, Loon	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
		Deployment of Relief Teams for Relief goods distribution	Delivered food and non-food items to affected	Delivered food and non-food items to	Delivered food and non-food items to	OPSWDO, C/MSWDO,	DSWD, private sector
		Provision food and non-food items to all affected areas	areas	affected areas	affected areas	PDRRMO	555151
Support to the reduction of environmental areas at risk to Flooding, Typhoon, Severe Wind	Priority 16 Protected Areas in Bohol	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
		Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH
Support to the reduction of heritage areas and tourism sites at risk to Flooding, Typhoon, Severe	Loboc, Cortes, Alburquerque, Loon, Balilihan, Dimiao, Loay, Baclayon, Panglao, Dauis, Inabanga,	Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH



		Wind (For validation with NHCP)	Danao, Jagna, Talibon, Sierra Bullones, Pilar, Guindulman, Duero	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
23	Critical facilitie	reduction of	Corella, Cortes, Balilihan, Loboc, Danao,	Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH
		and lifelines at	lifelines at Buenavista,	Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH
	DROUGHT Support to the reduction of agricultural areas at risk to drought Support to the reduction of heritage areas and tourism sites at risk to drought	All Agricultural Towns (45 Municipalities)	Cash for work activities (emergency assistance to farmers and growers)	Farmers and growers with additional income through cash for activities	Farmers and growers with additional income through cash for activities	Farmers and growers with additional income through cash for activities	OPA	DA, MAO	
		areas at risk to Dams, Irrigation	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs	
		reduction of heritage areas and tourism sites at risk to	Loboc, Cortes, Alburquerque, Loon, Balilihan, Dimiao, Loay, Baclayon, Panglao, Dauis, Inabanga, Danao, Jagna,	Deployment of response teams and rescue equipment	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PDRRMC	OCD7 and other NGAs



		Talibon, Sierra Bullones, Pilar, Guindulman, Duero	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	Support to the reduction of environmental areas at risk to drought	7 Watershed Areas (Inabanga, Pilar, Danao,S- Bullones, Clarin, Dagohoy, Loboc, Bilar,Duero G- Hernandez, San Miguel, Alicia, Candijay, Talibon, Guindulman, Pilar, Carmen, Balilihan, Catigbi-an, Batuan, Getafe, Buenavista, Sagbayan	Cash for work activities (emergency assistance to farmers and growers)	Farmers and growers with additional income through cash for activities	Farmers and growers with additional income through cash for activities	Farmers and growers with additional income through cash for activities	OPA	DA, MAO
STORM SURGE	Support to the reduction of population at risk to storm surge	Indigenous settlements (Badjao) Getafe Informal Settlers Bien Unido, Pres. CPG, Talibon Loay, Duero, Lila, Garcia-	Execution of Memorandum of Understanding with NGAs, NGOs, POs, private groups and other concerned stakeholders for the provision of nutritious relief food items after an emergency	Linkaging and Identification of possible partners:	Delivered nutritious relief food items to affected population		PDRRMO, C/MDRRMO, OPSWD), C/NSWDO	DSWD, NGOs, POs, private groups and other concerned



		Hernandez, Jagna						
			Preparation and submission of proposals and requests					
			Deployment of Relief Teams for Relief goods distribution	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	OPSWDO, C/MSWDO, PDRRMO	DSWD, private sector
			Cash for work activities (emergency assistance to disaster survivors)	families with additional income through cash for activities	families with additional income through cash for activities	families with additional income through cash for activities	OPSWD	DSWD
	Support to the reduction of critical facili and lifelines risk to storm	ties All C/MI GUS	Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH
	surge		Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	Support to the reduction of agricultural areas at risk storm surge	All MLGUs with agricultural	Cash for work activities (emergency assistance to farmers and growers)	Farmers and growers with additional income through cash for activities	Farmers and growers with additional income through cash for activities	Farmers and growers with additional income through cash for activities	OPA	DA, MAO
24	Support to the reduction of heritage area and tourism sites at risk tourism surge	Baclayon, Loon, Maribojoc, Dauis	Activate emergency communication hotline for foreign nationals	Tapped communication hotline for foreign nationals	Tapped communication hotline for foreign nationals	Tapped communication hotline for foreign nationals	вто	DOT/EMBASSY



-	Support to the reduction of	Indigenous settlements (Badjao) Dauis, Getafe Informal Settlers	Execution of Memorandum of Understanding with NGAs, NGOs, POs, private groups and other concerned stakeholders for the provision of nutritious relief food items after an emergency	Linkaging and Identification of possible partners:	Delivered nutritious relief food items to affected population		PDRRMO, C/MDRRMO, OPSWD), C/NSWDO	DSWD, NGOs, POs, private groups and other concerned
	population at risk to tsunami	Bien Unido, Pres. CPG, Talibon, Loay Duero, Lila,	Deployment of Relief Teams for Relief goods distribution	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	OPSWDO, C/MSWDO, PDRRMO	DSWD, private sector
		Garcia Hernandez, Jagna	Cash for work activities (emergency assistance to disaster survivors)	families with additional income through cash for activities	families with additional income through cash for activities	families with additional income through cash for activities	OPSWD	DSWD
TSUNAMI	Support to the reduction of critical facilities and lifelines at risk to tsunami	All coastal LGUs	Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH
	risk to tsunami		Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	Support to the reduction of agricultural areas at risk to tsunami							
	Coastal Towns	Cortes,	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
		Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Albuquerque, Baclayon,	Deployment of response teams and rescue equipment	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to	Response teams conducted search and rescue to	PDRRMC	OCD7 and other NGAs



		Panglao, Dauis, Mabini, Ubay			affected communities	affected communities		
	Fisheries	Mabini, Ubay, Talibon, Bien Unido, Pres. CPG, Calapi,	Cash for work activities (emergency assistance to fisherfolks)	Fisherfolks with additional income through cash for activities	Fisherfolks with additional income through cash for activities	Fisherfolks with additional income through cash for activities	OPA	DA
		Candijay	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	Poultry and Livestock	Cortes, Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Albuquerque, Baclayon, Panglao, Dauis	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
		-	Cash for work activities (emergency assistance)	Poultry and livestock owners with additional income through cash for activities	Poultry and livestock owners with additional income through cash for activities	Poultry and livestock owners with additional income through cash for activities	OPA, OPV	DA, MAO
	Support to the reduction of built-up areas at risk to Tsunami	Cortes, Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Alburquerque, Baclayon, Panglao, Dauis	Deployment of response teams and rescue equipment	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PDRRMC	OCD7 and other NGAs
		V	Conduct RDANA Deployment of Relief Teams for Relief goods distribution Provision food and non-food items to all affected areas	Accomplished RDANA Delivered food and non-food items to affected areas	Accomplished RDANA Delivered food and non-food items to affected areas	Accomplished RDANA Delivered food and non-food items to affected areas	PDRRMC OPSWDO, C/MSWDO, PDRRMO	OCD7 and other NGAs DSWD, private sector



		Dimiao	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	Support to the reduction of environmental areas at risk to tsunami	Cortes, Maribojoc, Loon, Calape	Cash for work activities (emergency assistance to farmers and growers)	Farmers and growers with additional income through cash for activities	Farmers and growers with additional income through cash for activities	Farmers and growers with additional income through cash for activities	OPA	DA, MAO
	River basins		Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	Support to the reduction of heritage areas and tourism sites at risk to	Lila, Loay, Alburquerque, Baclayon Panglao, Dauis, Anda, and all protected seascapes	Activate emergency communication hotline for foreign nationals	Tapped communication hotline for foreign nationals	Tapped communication hotline for foreign nationals	Tapped communication hotline for foreign nationals	вто	DOT/EMBASSY
	— tsunami		Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
		Loboc , Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones,	Execution of Memorandum of	Linkaging and Identification of possible partners:	Delivered nutritious relief food items to affected population		PDRRMO, C/MDRRMO, OPSWD), C/NSWDO	DSWD, NGOs, POs, private groups and other concerned
RAIN- INDUCED LANDSLIDES	support to the reduction of population at	Sagbayan, Danao, San Isidro, Sevilla, Valencia,	Understanding with NGAs, NGOs, POs, private groups and other concerned stakeholders for the provision	Preparation and submission of proposals and requests				
	risk to RIL	Candijay, Bilar (not too severe)	of nutritious relief food items after an emergency	Execution or signing of MOU				
		Catigbian, Inabanga, Balilihan, Antiquera, San Miguel	Ç ,	Monitoring and follow up partners				
EARTHQUAKI , GROUND	Support to the reduction of	C/MLGUs near East Bohol	Execution of Memorandum of Understanding with NGAs,		Delivered nutritious relief		PDRRMO, C/MDRRMO,	DSWD, NGOs, POs, private



SHAKING, LIQUEFACTIO N	population at risk to Ground Shaking, Liquefaction	Fault (epicenter at Jagna, SW propagation), and South Offshore Fault: Jagna, Tagbilaran City, Corella, Valencia, Dauis, Panglao, Loay, Baclayon (Pamilacan Is.), Panglao (Balicasag Is.), Loboc, Carmen, Sierra Bullones, Pilar, Bilar, Batuan, Balilihan, Catigbian, San Isidro, Sevilla, Antequera, Cortes, Maribojoc, Tubigon, Calape, Sikatuna	NGOs, POs, private groups and other concerned stakeholders for the provision of nutritious relief food items after an emergency	Monitoring and follow up partners	food items to affected population		OPSWD), C/NSWDO	groups and other concerned
	Support to the reduction of built-up at risk to earthquake, ground Shaking, liquefaction	Jagna, Tagbilaran City, Valencia, Dauis, Panglao	Deployment of response teams and rescue equipment	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PDRRMC	OCD7 and other NGAs
			Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs



			Provision food and non-food items to all affected areas	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	OPSWDO, C/MSWDO, PDRRMO	DSWD, private sector
	Support to the reduction of agricultural	Garcia- Hernandez,	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	areas at risk to earthquake, ground Shaking, liquefaction Support to the reduction of critical facilities and lifelines at risk to earthquake, ground Shaking, liquefaction	rthquake, Alburquerque, Count Shaking, Uniform Shaking, Uniform Shaking, Uniform Shaking, Indiana Shaking, I	Cash for work activities (emergency assistance to farmers and growers)	Farmers and growers with additional income through cash for activities	Farmers and growers with additional income through cash for activities	Farmers and growers with additional income through cash for activities	OPA	DA, MAO
		All C/MLGUs	Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH
			Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
	Support to the reduction of environmental areas at risk to earthquake, ground Shaking, liquefaction	Watershed: Garcia- Hernandez (Manaba river)	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs



	Support to the reduction of heritage areas and tourism sites at risk to earthquake, ground Shaking, liquefaction	Centennial Churches: Baclayon, Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Lila, Dimiao, Alburquerque, Loay, Garcia- Hernandez, Cortes, Maribojoc, Loon, Calape,Baliliha n, Albur	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and other NGAs
			Deployment of clearing teams	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PEO	DPWH



EARTHQUAKE INDUCED LANDSLIDE (EIL)	Support to the reduction of population at risk to EIL	Loboc , Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar, Alicia, Sikatuna, Batuan, Lila, Guindulman, Pilar, Balilihan, Catigbian, Clarin, Tubigon, Calape, Loon, Maribojoc, Antequera, Buenavista, Inabanga, Sikatuna, Albur, Loay, Cortes, Carmen Dagohoy, San	Execution of Memorandum of Understanding with NGAs, NGOs, POs, private groups and other concerned stakeholders for the provision of nutritious relief food items after an emergency	Linkaging and Identification of possible partners:	Delivered nutritious relief food items to affected population		PDRRMO, C/MDRRMO, OPSWD), C/NSWDO	DSWD, NGOs, POs, private groups and other concerned
		Miguel, Mabini, Anda, Trinidad, Ubay, Corella	Provision food and non-food items to all affected areas	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	PDRRMC OPSWDO, C/MSWDO, PDRRMO	OCD7 and other NGAs DSWD, private sector
			Preparation and submission of proposals and requests					
			Execution or signing of MOU					



				Monitoring and follow up partners					
		Support to the reduction of	Sagbayan, Garcia- Hernandez, Duero, S.	Deployment of response teams and rescue equipment	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PDRRMC	OCD7 and other NGAs
		built-up areas at risk to EIL	Bullones, Jagna, Calape, Bilar, Batuan	Conduct RDANA	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC	OCD7 and
			Siai, Suludii	Provision food and non-food items to all affected areas	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	OPSWDO, C/MSWDO, PDRRMO	other NGAs DSWD, private sector
		Support to the		Conduct RDANA	Conduct RDANA	Accomplished RDANA	Accomplished RDANA	PDRRMC OPSWDO, C/MSWDO, PDRRMO	OCD7 and other NGAs DSWD, private sector
		reduction of critical facilities and lifelines at risk to EIL		Deployment of response teams and rescue equipment	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PDRRMC	OCD7 and other NGAs
	SINKHOLE	Support to the reduction of population at risk to sinkholes	(Majority) Corella, Lila, Loboc, Sevilla, Dauis, Valencia, Guindulman, Anda, Sierra	Execution of Memorandum of Understanding with NGAs, NGOs, POs, private groups and other concerned stakeholders for the provision of nutritious relief food items after an emergency	Linkaging and Identification of possible partners:	Delivered nutritious relief food items to affected population		PDRRMO, C/MDRRMO, OPSWD), C/NSWDO	DSWD, NGOs, POs, private groups and other concerned



			Bullones, San Isidro, Tubigon, Catigbian, Antequera, Calape, Cortes (Portions) Panglao, Balilihan, Garcia- Hernandez, Sagbayan, Carmen, Tagbilaran, Maribojoc	Provision food and non-food items to all affected areas	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	Delivered food and non-food items to affected areas	PDRRMC OPSWDO, C/MSWDO, PDRRMO	OCD7 and other NGAs DSWD, private sector
		Support to the reduction of	Tubigon, Talibon Jagna, Carmen, Loon, Tagbilaran,	Deployment of response teams and rescue equipment	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	Response teams conducted search and rescue to affected communities	PDRRMC	OCD7 and other NGAs
		built-up areas at risk to sinkholes	Cortes, Maribojoc, Trinidad, Calape, Candijay, Dauis	Conduct RDANA Provision food and non-food items to all affected areas	Conduct RDANA Delivered food and non-food items to affected areas	Accomplished RDANA Delivered food and non-food items to affected areas	Accomplished RDANA Delivered food and non-food items to affected areas	PDRRMC OPSWDO, C/MSWDO, PDRRMO	OCD7 and other NGAs DSWD, private sector
25	(Animal) Health-Related	Prevent further Contamination of Infection or Containment of Infection	Infection Area and nearby MLGU	conduct of outbreak investigation and establishment of outbreak zones in ASF confirmed cases	Accomplished report on ASF outbreak in areas with confirmed cases, as needed	Accomplished report on ASF outbreak in areas with confirmed cases, as needed	Accomplished report on ASF outbreak in areas with confirmed cases, as needed	OPV	DA, MLGU, BLGU, DENR



26				enforcement of policies on movement restrictions following the 1 – 7 – 10 protocols	1 – 7 – 10 protocols in place and monitored	1 – 7 – 10 protocols in place and monitored	1 – 7 – 10 protocols in place and monitored	OPV	DA, MLGU, BLGU, DENR
27				identification of burial sites and working teams for proper disposal of culled / slaughtered animals	Appropriate and safe burial sites identified for proper disposal of culled / slaughtered animals	Appropriate and safe burial sites identified for proper disposal of culled / slaughtered animals	Appropriate and safe burial sites identified for proper disposal of culled / slaughtered animals	OPV	DA, MLGU, BLGU, DENR
28				conduct test and destroy	Implemented test and destroy	Implemented test and destroy	Implemented test and destroy	OPV	DA, MLGU, BLGU, DENR
29				decontamination, disinfection and observe downtime period	Strictly implemented proper decontamination, disinfection	Strictly implemented proper decontaminatio n, disinfection	Strictly implemented proper decontaminatio n, disinfection	OPV	DA, MLGU, BLGU, DENR
30				Provision of Special Fund for the Compensation of Affected Farmers	Available and distributed compensation fund to affected farmers	Available and distributed compensation fund to affected farmers	Available and distributed compensation fund to affected farmers	OPV, C/MLGUs	DA
31	EREID	Physical provincial isolation center to support C/MLGUs for EREID management	1 Isolation Center (Tagbilaran City)	Re-activate provincial isolation center as step-down facility	Operational provincial isolation center, as needed	Operational provincial isolation center, as needed	Operational provincial isolation center, as needed	PHO, C/MHO	DOH, LGU
32		Ensure availability of Isolation beds during EREID Outbreaks	All government and private Hospitals	Activation of hospital protocol on EREID Outbreak	All hospitals compliant to EREID outbreak protocol, as needed	All hospitals compliant to EREID outbreak protocol, as needed	All hospitals compliant to EREID outbreak protocol, as needed	PHO, C/MHO	DOH, LGU



	Thematic Area:			Reha	bilitation and	Recovery			
	Hazard	Actions specific to the province/Actions that the province	Short Term Target	PPAs	Output / Timeframe	9		Office/s Responsible	Partner Agencies
		can do for the component LGUs	(2023-2025)		2023	2024	2025		
1		Augment needs of LGUs affected		Conduct of PDNA	Accomplished PDNA Report	Accomplished RDNA and PDNA Report	Accomplished RDNA and PDNA Report	PDRRMO	OCD7 and other concerned NGAs
2	ALL HAZARD			Rehabilitation and retrofitting of damaged infrastructures per municipality and province	Upgraded and safe infrastructures based on e PDNA Report	Upgraded and safe infrastructures based on e PDNA Report	Upgraded and safe infrastructures based on e PDNA Report	PEO	DPWH
3				Shelter program	shelters provided to affected LGUs	shelters provided to affected LGUs	shelters provided to affected LGUs	PPDO, OPSWD PDRRMO, PEO	NHA, DSWD, DSUD
				Conduct of cash for work/food for work activities/alternative livelihood for affected families	provided alternative livelihood or assistance to affected families			OPSWD	DSWD other NGAs
4	HEALTH (DRRM-H)	Assist C/MLGUs in the rehabilitation and recovery	All C/MLGUs affected	Conduct PIE	Post incident Evaluation (PIE) and documentation of best practices, lessons, problems encountered, challenges and recommendations, as necessary	Post incident Evaluation (PIE) and documentation of best practices, lessons, problems encountered, challenges and recommendatio	Post incident Evaluation (PIE) and documentation of best practices, lessons, problems encountered, challenges and recommendati	PDRRMO	PHO, DOH, LGU



				ns, as necessary	ons, as necessary		
5		Psychosocial interventions for the victims	all victims provided with psychosocial intervention base on medical assessment	all victims provided with psychosocial intervention base on medical assessment	all victims provided with psychosocial intervention base on medical assessment	PHO, C/MHO	DOH, LGU
6		Continuous monitoring of health conditions of the affected population (ex. Surveillance)	health conditions of the affected population reported and assisted, as necessary	health conditions of the affected population reported and assisted, as necessary	health conditions of the affected population reported and assisted, as necessary	PHO, C/MHO	DOH, LGU
7		Repair of damaged health facilities and lifelines	Health facilities upgraded based on standards as necessary	Health facilities upgraded based on standards as necessary	Health facilities upgraded based on standards as necessary	PHO, C/MHO	DOH, LGU
8		Replenishment of utilized resources	Available medical resources if necessary	Available medical resources if necessary	Available medical resources if necessary	PHO	DOH, LGU
9		Recognition of responders	Responders given recognition for saving lives (as necessary)	Responders given recognition for saving lives (as necessary)	Responders given recognition for saving lives (as necessary)	PHO, PDRRMO	DOH, LGU



10				Review and Updating of DRRMH Plan	Updated and approved DRRMH Plan	Updated and approved DRRMH Plan	DRRMH Plan approved for 2026-2028	PHO, C/MHO	DOH, LGU
11				Stress debriefing of the responders	all responders provided with care and debriefing as necessary	all responders provided with care and debrief as necessary	all responders provided with care and debrief as necessary	PHO, C/MHO	DOH, LGU
12		Support to the	Loboc, Candijay, Inabanga, Antequera, Garcia- Hernandez, Lila, Cortes, Sierra Bullones, Loay, Alburquerque	Determine number of families / households whose livelihood/ main source of income were affected					DSWD
13	TYPHOON, SEVERE WIND, FLOODING	reduction of population at risk to flooding,		Assess and evaluate appropriate livelihood interventions	families with appropriate alternative	families with appropriate alternative	families with appropriate alternative	PSWDO, PDRRMO, and C/MLGUs	DTI
14	LOODING	typhoon, severe wind	With Island Barangays: Getafe, Talibon, Bien Unido, Pres. CPG, Loon, Ubay, Tubigon, Baclayon	Provision of alternative livelihood intervention to expedite recovery	livelihood	livelihood	livelihood	ONVILGUS	
15				Linkage with counterpart National Agencies, NGOs, etc					



16	Support to the reduction of agricultural areas at risk to Flooding, Typhoon, Severe Wind	Candijay (AF), Alicia, Guindulman (AF)	Provision of farm inputs to farmers and farmer associations					
17		Pilar, Batuan, Bilar, Carmen, Balilihan, Catigbian, Garcia- Hernandez, Jagna, Sierra Bullones, Dana	Determine number of target farmers and farmer associations	Delivered and distributed farm inputs to affected farmers and farmer association	Delivered and distributed farm inputs to affected farmers and farmer association	Delivered and distributed farm inputs to affected farmers and farmer association	OPA, PDRRMO, C/MLGUs	DA
18			Assess and evaluate appropriate farm inputs					
19			Linkage with counterpart National Agencies, NGOs, etc					
		Nipa Plantation:	Capability training on nipa and vegetable production	Identification of possible beneficiaries, fund sourcing and conduct of training	Identification of possible beneficiaries, fund sourcing and conduct of training	Identification of possible beneficiaries, fund sourcing and conduct of training	OPA, G.O., City/Mun. LGUs	DA, DENR
		Cortes (nipa), Maribojoc (nipa), Loboc, Inabanga, Loay	Establishment of Nipa Nursery for Rehabilitation	Identification of areas for the establishment of nursery and actual nursery establishment	Identification of areas for the establishment of nursery and actual nursery establishment	Identification of areas for the establishment of nursery and actual nursery establishment	BPEMO, OPA	DA, DENR
		Mabini, Sevilla, Buenavista, Ubay, Bein	Capability training on nipa and vegetable production	Identification of possible beneficiaries	Identification of possible beneficiaries,	Identification of possible beneficiaries,	OPA, G.O., City/Mun. LGUs	DA, DENR



		Unido, Calape, Clarin, Talibon, Pres. CPG, Tubigon, Lila, Loon, Inabanga	Establishment of Nipa Nursery for rehabilitation		fund sourcing and conduct of training	fund sourcing and conduct of training		
		Mabini, Guindulman, Candijay, Alicia, S.	Capability training on nipa and vegetable production	Identification of possible beneficiaries	Identification of possible beneficiaries, fund sourcing and conduct of training	Identification of possible beneficiaries, fund sourcing and conduct of training	OPA, G.O., City/Mun. LGUs	DA, DENR
		Bullones, Loboc, Sikatuna, Pilar, Ubay, Calape, Loon, Cortes	Establishment of Nipa Nursery for rehabilitation	Identification of areas for the establishment of nursery and actual nursery establishment	Identification of areas for the establishment of nursery and actual nursery establishment	Identification of areas for the establishment of nursery and actual nursery establishment	BPEMO, OPA	DENR
	Support to the reduction of critical facilities and lifelines at risk to Flooding, Typhoon, Severe Wind							
	Roads and Bridges:	1st District Abatan Bridge in Cortes, Camayaan Bridge in Cortes	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of assistance necessary for the repair and rehabilitation of damaged roads or bridges	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO	DPWH, DILG, DBM, Congress, Senate, Office of the President, othe NGAs, CSOs, other private partners
		2nd District Inabanga, Buenavista,	Linkage and collaboration with partner agencies	Identification of partner agencies (public and	Linkage and collaboration with partner	Linkage and collaboration with partner	GO, PEO	DPWH, DILG, DBM, Congress,



		Clarin, Malitbog in Dagohoy	(public and private) and other stakeholders for the provision of assistance necessary for the repair and rehabilitation of damaged roads or bridges	private) and other stakeholders and actual linkage and collaboration	agencies (public and private) and other stakeholders	agencies (public and private) and other stakeholders		Senate, Office of the President, other NGAs, CSOs, other private partners
		3rd District Candijay, Guindulman, Duero, Garcia- Hernandez, Lila, Bilar, Carmen, Batuan, Valencia, Alicia, Loay, Loboc (Agape Bridge and Roads)	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of assistance necessary for the repair and rehabilitation of damaged roads or bridges	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO	DPWH, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
	Seawall: Support to the reduction of built-up areas at risk to Flooding, Typhoon, Severe Wind	1st District Baclayon (for repair)	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of assistance necessary for the repair and rehabilitation of damaged seawall	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO	DPWH, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
		3rd District Guindulman, Duero, Jagna, Garcia- Hernandez, Valencia,	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of assistance necessary	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and	Linkage and collaboration with partner agencies (public and private) and	GO, PEO	DPWH, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs,



		Dimiao, Lila (ongoing), Loay	for the repair and rehabilitation of damaged seawall		other stakeholders	other stakeholders		other private partners
		Tagbilaran City, Urbanizing Municipalities: Tubigon, Talibon, Ubay, Panglao, Dauis, Jagna, Loon	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of assistance necessary for the repair and rehabilitation of damaged seawall	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO	DPWH, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
	Support to the reduction of environmental areas at risk to Flooding, Typhoon, Severe Wind	Priority 16 Protected Areas in Bohol,	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance necessary for the repair and rehabilitation of damaged landscape and seascape	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO, BPEMO	DPWH, DENR, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
	Support to the reduction of heritage areas and tourism sites at risk to Flooding, Typhoon, Severe Wind (For validation with NHCP) Support to the reduction of critical facilities and lifelines at risk to drought	Loboc, Cortes, Alburquerque, Loon, Balilihan, Dimiao, Loay, Baclayon, Panglao, Dauis, Inabanga, Danao, Jagna, Talibon, Sierra Bullones, Pilar, Guindulman, Duero	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance necessary for the repair and rehabilitation of damaged heritage areas and tourism sites	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, BTO, CCAD, PEO, LGUs	DPWH, NHCP, DENR, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners



			Corella, Cortes, Balilihan, Loboc, Danao, Getafe, Ubay, Buenavista, San Miguel, Dagohoy	Rehabilitation of damage water sources	All damage water sources are rehabilitated	All damage water sources are rehabilitated	All damage water sources are rehabilitated	PDRRMO, PEO, PPDO	DPWH and other NGAs
20		Support to the reduction of critical facilities and lifelines at risk to drought	Corella, Cortes, Balilihan, Loboc, Danao, Getafe, Ubay, Buenavista, San Miguel, Dagohoy	Rehabilitation of damage water sources	All damage water sources are rehabilitated	All damage water sources are rehabilitated	All damage water sources are rehabilitated	PDRRMO, PEO, PPDO	MEO, MPDO, NEDA
21		Support to the	All Agricultural Towns (45 Municipalities)	Provision farm inputs to affected farmers	Allocated farm inputs to all affected farmers in MLGUs	Allocated farm inputs to all affected farmers in MLGUs	Allocated farm inputs to all affected farmers in MLGUs	PDRRMO, OPA	DA, DOLE, DTI
22	1	Support to the reduction of agricultural areas at risk to drought	All towns with Dams, Irrigation facilities Ubay, San Miguel, Pilar, Talibon (2)	Provision of alternative livelihoods	All affected farmers provided with appropriate source of alternative livelihood	All affected farmers provided with appropriate source of alternative livelihood	All affected farmers provided with appropriate source of alternative livelihood	PDRRMO, OPA	DA, DOLE, DTI
		Support to the reduction of heritage areas and tourism sites at risk to drought	Loboc, Cortes, Alburquerque, Loon, Balilihan, Dimiao, Loay, Baclayon, Panglao, Dauis, Inabanga, Danao, Jagna, Talibon, Sierra	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance necessary for the repair and rehabilitation of	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, BTO, CCAD, PEO, LGUs	DPWH, NHCP, DENR, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners



		Support to the reduction of environmental areas at risk to drought	Bullones, Pilar, Guindulman, Duero 7 Watershed Areas (Inabanga, Pilar, Danao,S- Bullones, Clarin, Dagohoy, Loboc, Bilar,Duero G- Hernandez, San Miguel, Alicia, Candijay, Talibon, Guindulman, Pilar, Carmen, Balilihan, Catigbi-an, Batuan, Getafe, Buenavista, Sagbayan	damaged heritage areas and tourism sites Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance necessary for the repair and rehabilitation of damaged landscape and seascape	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO, BPEMO	DPWH, DENR, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
23		Support to the	Indigenous settlements (Badjao)	Provision of shelter assistance	Shelter assistance extended to affected families	Shelter assistance extended to affected	Shelter assistance extended to affected		DSWD/BPESO
	STORM SURGE	reduction of population at risk to storm surge reduction of Informal Settlers Bien Unido,	Getate	unoded idiffilios	families Affected	families Affected	OPSWD, C/MSWDO		
24				Provision of livelihood start up kits	availed livelihood	families availed	families availed livelihood		
25			Talibon	st			start-up kits		



								CIAL
26		Loay, Duero, Lila, Garcia- Hernandez, Jagna	Provided livelihood skills enhancement	Individuals with additional livelihood skills to generate income	Individuals with additional livelihood skills to generate income	Individuals with additional livelihood skills to generate income		
29	Support to the reduction of critical facilities and lifelines at risk to storm surge		Provision Climate- smart industries and facilities				BIPC/BICTO/P EO	DOST/DOE/DI CT
30	Roads and Bridges	Dauis, Baclayon, Albuquerque, Lila	Relocation of critical facilities					
31	Water	Pres. CPG, Bien Unido, Trinidad	Assessment of structural integrity as basis for the recommendation for rehab/retrofitting of damaged facilities	Accomplished assessment report of damages facilities and lifelines to be recommended for rehabilitation or retrofitted	Accomplished assessment report of damages facilities and lifelines to be recommended for rehabilitation or retrofitted	Accomplished assessment report of damages facilities and lifelines to be recommended for rehabilitation or retrofitted	PEO	DPWH/MEO
	Power	Pres. CPG, Ubay, Bien Unido	Database on the power sources and supplies	Geo-tagging of the power sources and supplies at risk to storm surge			PDRRMO, PPDO	MLGUs, NGCP, BOHECO
	Municipal Halls	Guindulman, Anda, Garcia-	Assessment of structural integrity as	Geo-tagging of the Municipal Halls				
	Provincial buildings	Hernandez, Jagna, Lila, and other coastal LGUs	the basis for the recommendation for rehab/retrofitting of damaged facilities	and Provincial buildings and critical facilities at risk to storm surge			PDRRMO, PPDO, PEO	MLGUs, DPWH,



Schools	Baclayon, Loay, Dimiao, Valencia, Pres. CPG, Loon, and other coastal LGUs	Database of all the schools located in the coastal areas at risk to storm surge	Geo-tagging of the Municipal Halls at risk to storm surge			PDRRMO, PPDO	DEP-ED, MLGUs
Churches and heritage sites	Anda, Baclayon, Bien Unido, and other coastal LGUs	Database and mapping of the churches and heritage sites located in the coastal areas at risk to storm surge	Geo-tagging of the churches and heritage sites			PDRRMO, BPTO	MLGUs, DOT, NHI, National Museum
Evacuation centers	Garcia- Hernandez, Jagna, Guindulman, and other coastal LGUs	Assessment of structural integrity as basis for the recommendation for rehab/retrofitting of damaged facilities identify PPAs					
Seaports	Tagbilaran City, Loon, Alburquerque, Maribojoc	Database on the seaports	Geo-tagging of seaports at risk to storm surge				
Support to the reduction of agricultural areas at risk to storm surge							
Fisheries	Mabini, Talibon, Bien Unido, Pres. CPG	Provision of alternative livelihood/cash or food for work for affected farmers	families with additional income through alternative livelihood/cash or food for work	families with additional income through alternative livelihood/cash or food for work	families with additional income through alternative livelihood/cash or food for work	OPSWD	DSWD



34			Provision of motorized bancas to affected fisherfolks	Affected fisherfolks provided with 6- footer fiberglass reinforced non- motorized bancas to affected fisherfolks association	Affected fisherfolks provided with 6-footer fiberglass reinforced non- motorized bancas to affected fisherfolks association	Affected fisherfolks provided with 6-footer fiberglass reinforced non-motorized bancas to affected fisherfolks association	ОРА	BFAR
35	Agriculture areas		Provision of alternative livelihood/cash or food for work for affected farmers	families with additional income through alternative livelihood/cash or food for work	families with additional income through alternative livelihood/cash or food for work	families with additional income through alternative livelihood/cash or food for work	OPSWD	DSWD
	Support to the reduction of built-up areas at risk to storm surge	Bien Unido, Talibon, Panglao, Baclayon, Jagna, Pres. Carlos P. Garcia, Valencia, Garcia- Hernandez	Repairs/construction of damaged facilities	Damaged facilities repaired and upgraded	Damaged facilities repaired and upgraded	Damaged facilities repaired and upgraded	PEO	DPWH
36	MSMEs, Remittance Center	Ubay, Dimiao						
	Support to the reduction of environmental areas at risk to storm surge		Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC	Identification of partner agencies (public and private) and other stakeholders and	Linkage and collaboration with partner agencies (public and private) and	Linkage and collaboration with partner agencies (public and private) and	GO, PEO, BPEMO	



-		River basins / Watershed Mangrove Cover	Inabanga, Trinidad Tubigon, Getafe, Clarin, Calape, Loon, Maribojoc	and other assistance necessary for the repair and rehabilitation of damaged landscape and seascape Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance necessary for the repair and rehabilitation of damaged landscape and seascape	actual linkage and collaboration Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	other stakeholders Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO, BPEMO	
		Support to the reduction of heritage areas and tourism sites at risk to storm surge	Panglao, Dauis, Anda, Cortes, Baclayon, Loon, Maribojoc, Dauis, Alburquerque	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance necessary for the repair and rehabilitation of damaged heritage areas and tourism sites	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, BTO, CCAD, PEO, LGUs	DPWH, NHCP, DENR, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
	TSUNAMI	Support to the reduction of population at risk to tsunami	Indigenous settlements (Badjao) Informal Settlers	Determine number of families / households whose livelihood/ main source of income were affected				OPSWD	DSWD



	Support to the reduction of critical facilities and lifelines at risk to tsunami	Bien Unido, Pres. CPG, Talibon, Loay Duero, Lila, Garcia Hernandez, Jagna						
		All coastal MLGUs	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of assistance necessary for the repair and rehabilitation of damaged roads or bridges	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO	DPWH, DILG, DBM, Congress, Senate, Office of the President, othe NGAs, CSOs, other private partners
	Support to the reduction of built-up areas at risk to Tsunami	Cortes, Maribojoc, Loon, Calape, Dimiao, Lila, Loay, Alburquerque, Baclayon, Panglao, Dauis	Repairs/construction of damaged facilities	Damaged facilities repaired and upgraded	Damaged facilities repaired and upgraded	Damaged facilities repaired and upgraded	PEO	DPWH, other NGAs
	Support to the reduction of environmental areas at risk to tsunami		Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and	Linkage and collaboration with partner agencies (public and private) and	GO, BPEMO, PEO, LGUs	DPWH, DENR, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs,



				necessary for the repair and rehabilitation of damaged river basins and watershed		other stakeholders	other stakeholders		other private partners
		River basins / Watershed Mangrove Cover	Inabanga, Trinidad Tubigon, Getafe, Clarin, Calape, Loon, Maribojoc	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance necessary for the repair and rehabilitation of damaged river basins and watershed mangrove cover	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, BPEMO, PEO, LGUs	DPWH, DENR, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
		Support to the reduction of heritage areas and tourism sites at risk to tsunami	Lila, Loay, Alburquerque, Baclayon Panglao, Dauis, Anda, and all protected seascapes	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance necessary for the repair and rehabilitation of damaged heritage areas and tourism sites	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, BPEMO, BTO, CCAD, PEO, LGUs	DPWH, DENR, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
	EARTHQUAKE, GROUND SHAKING, LIQUEFACTIO N	Support to the reduction of population at risk to earthquake, ground Shaking, liquefaction	C/MLGUs near East Bohol Fault (epicenter at Jagna, SW propagation), and South Offshore Fault:	Determine number of families / households whose livelihood/ main source of income were affected				PSWDO, PDRRMO, and C/MLGUs	DSWD



	Jagna, Tagbilaran City, Corella, Valencia, Dauis, Panglao, Loay, Baclayon (Pamilacan Is.), Panglao (Balicasag Is.), Loboc, Carmen, Sierra Bullones, Pilar, Bilar, Batuan, Balilihan, Catigbian, San Isidro, Sevilla, Antequera, Cortes,	Assess and evaluate	families with appropriate	families with appropriate	families with appropriate	PSWDO.	
	Maribojoc, Tubigon, Calape, Sikatuna	appropriate livelihood interventions	alternative livelihood	alternative livelihood	alternative livelihood	PSWDO, PDRRMO, and C/MLGUs	DTI
Support to the reduction of built-up at risk to earthquake, ground Shaking, liquefaction	Jagna, Tagbilaran City, Valencia, Dauis, Panglao	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of assistance necessary for the repair and rehabilitation of damaged seawall	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO	DPWH, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
Support to the reduction of agricultural areas at risk to earthquake, ground	Garcia- Hernandez, Loay, Jagna, Alburquerque, Tagbilaran City	Provision of farm inputs to farmers and farmer associations	Delivered and distributed farm inputs to affected farmers and farmer association	Delivered and distributed farm inputs to affected farmers and	Delivered and distributed farm inputs to affected farmers and	OPA, PDRRMO, C/MLGUs	DA



	Shaking, liquefaction				farmer association	farmer association		
	Support to the reduction of critical facilities and lifelines at risk to earthquake, ground Shaking, liquefaction	Provincewide	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of assistance necessary for the repair and rehabilitation of damaged roads or bridges	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO	DPWH, DILG, DBM, Congress, Senate, Office of the President, othe NGAs, CSOs, other private partners
	Support to the reduction of environmental areas at risk to earthquake, ground Shaking, liquefaction	Watershed: Garcia- Hernandez (Manaba river)	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance necessary for the repair and rehabilitation of damaged landscape and seascape	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO, BPEMO	DPWH, DENR, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
	Support to the reduction of heritage areas and tourism sites at risk to earthquake, ground Shaking, liquefaction	Centennial Churches: Baclayon, Jagna, Tagbilaran City, Valencia, Dauis, Panglao, Lila, Dimiao, Alburquerque, Loay, Garcia- Hernandez, Cortes,	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of IEC and other assistance necessary for the repair and rehabilitation of damaged heritage areas and tourism sites	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, BTO, CCAD, PEO, LGUs	DPWH, NHCP, DENR, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners



EARTHQUAKE INDUCED LANDSLIDE (EIL)	Support to the reduction of population at risk to EIL	Maribojoc, Loon, Calape,Baliliha n, Albur Loboc , Dimiao, Jagna, Garcia Hernandez, Duero, S. Bullones, Sagbayan, Danao, San Isidro, Sevilla, Valencia, Candijay, Bilar, Alicia, Sikatuna, Batuan, Lila, Guindulman, Pilar, Balilihan, Catigbian, Clarin, Tubigon, Calape, Loon, Maribojoc, Antequera, Buenavista, Inabanga, Sikatuna, Albur, Loay, Cortes, Carmen Dagohoy, San Miguel, Mabini, Anda, Trinidad, Ubay, Corella	Determine number of families / households whose livelihood/ main source of income were affected Assess and evaluate	families with	families with	families with	PSWDO,	DTI
			appropriate livelihood interventions	appropriate	appropriate	appropriate	PDRRMO, and C/MLGUs	DTI



					alternative livelihood	alternative livelihood	alternative livelihood		
		Support to the reduction of built-up areas at risk to EIL	Sagbayan, Garcia- Hernandez, Duero, S. Bullones, Jagna, Calape, Bilar, Batuan	Linkage and collaboration with partner agencies (public and private) and other stakeholders for the provision of assistance necessary for the repair and rehabilitation of damaged seawall	Identification of partner agencies (public and private) and other stakeholders and actual linkage and collaboration	Linkage and collaboration with partner agencies (public and private) and other stakeholders	Linkage and collaboration with partner agencies (public and private) and other stakeholders	GO, PEO	DPWH, DILG, DBM, Congress, Senate, Office of the President, other NGAs, CSOs, other private partners
		Support to the reduction of critical facilities and lifelines at risk to EIL		Repairs/construction of damaged facilities	Damaged facilities repaired and upgraded	Damaged facilities repaired and upgraded	Damaged facilities repaired and upgraded	PEO	DSWD
		Microbusinesses, MSMEs, Remittance Center	Ubay, Dimiao	Repairs/construction of damaged facilities	Damaged facilities repaired and upgraded	Damaged facilities repaired and upgraded	Damaged facilities repaired and upgraded	PEO	DPWH
	SINKHOLE	Support to the reduction of population at risk to sinkholes	Majority) Corella, Lila, Loboc, Sevilla, Dauis, Valencia, Guindulman, Anda, Sierra Bullones, San Isidro, Tubigon, Catigbian,	Provision of shelter assistance Provision of livelihood start up kits	Shelter assistance extended to affected families Affected families availed livelihood start-up kits	Shelter assistance extended to affected families Affected families availed livelihood start- up kits	Shelter assistance extended to affected families Affected families availed livelihood start-up kits	OPSWD, C/MSWDO BIPC/BICTO/P EO	DSWD/BPESO



			Antequera, Calape, Cortes (Portions) Panglao, Balilihan, Garcia- Hernandez, Sagbayan, Carmen, Tagbilaran, Maribojoc						
		Support to the reduction of built-up areas at risk to sinkholes	Tubigon, Talibon Jagna, Carmen, Loon, Tagbilaran, Cortes, Maribojoc, Trinidad, Calape, Candijay, Dauis	Repairs/construction of damaged facilities	Damaged facilities repaired and upgraded	Damaged facilities repaired and upgraded	Damaged facilities repaired and upgraded	PEO	DPWH, Other NGAs
37	(Animal) Health-Related	Prevent further Contamination of Infection or Containment of Infection	Infection Area and nearby MLGU	conduct of outbreak investigation and establishment of outbreak zones in ASF confirmed cases	Accomplished report on ASF outbreak in areas with confirmed cases, as needed	Accomplished report on ASF outbreak in areas with confirmed cases, as needed	Accomplished report on ASF outbreak in areas with confirmed cases, as needed	OPV	DA, MLGU, BLGU, DENR
38				enforcement of policies on movement restrictions following the 1 – 7 – 10 protocol	1 – 7 – 10 protocol in place and monitored	1 – 7 – 10 protocol in place and monitored	1 – 7 – 10 protocol in place and monitored	OPV	DA, MLGU, BLGU, DENR



39	identification of burial sites and working teams for proper disposal of culled / slaughtered animals	Appropriate and safe burial sites identified for proper disposal of culled / slaughtered animals	Appropriate and safe burial sites identified for proper disposal of culled / slaughtered animals	Appropriate and safe burial sites identified for proper disposal of culled / slaughtered animals	OPV	DA, MLGU, BLGU, DENR
40	conduct test and destroy	Implemented test and destroy	Implemented test and destroy	Implemented test and destroy	OPV	DA, MLGU, BLGU, DENR
41	decontamination, disinfection and observe downtime period	Strictly implemented proper decontamination, disinfection	Strictly implemented proper decontaminatio n, disinfection	Strictly implemented proper decontaminati on, disinfection	OPV	DA, MLGU, BLGU, DENR
42	Provision of Special Fund for the Compensation of Affected Farmers	Available and distributed compensation fund to affected farmers	Available and distributed compensation fund to affected farmers	Available and distributed compensation fund to affected farmers	OPV, C/MLGUs	DA, MLGU, BLGU, DENR



Annex 5: LDRRMFIP of Bohol Province

DRRM Fund Investment Plan - Province of Bohol

Prevention and Mitigation

FIEVE	ition and	a iviitigai	LIOII																					
										Period	l of Imple	mentatio	n											
					Year 1	(2023)			Year 2	(2024)			Year 3	(2025)										
				Startir	ng Date: J	January		Starting I	Date: Jar	nuary		Startin	g Date:	January	/									
GROUP	Functiona Classifica tion	PPA Code and Descriptio n	Implemen ting Office	Co mpl etio n Dat e: Dec em ber				Completi	ion Date:	Decembe	:r	Comp	letion Da	ite: Dec	ember	Т	otal for 2	2023-202	5	Exp	pected Outpo	ut	Funding Source	Remark s
				MO OE	СО	Oth ers	Total	MOOE	СО	Other s	Total	MO OE	СО	Oth ers	Tota I	MO OE	СО	Oth ers	TOT AL	2023	2024	205		
All hazard		Update Risk/ Climate Impact Assessm ent; Updating of CDRA & Updating of Hazard Maps	PPDO , PDRRM O, MEO, MPDC, MENRO	1,7 00, 000	500, 000		2,20 0,00 0	1,700, 000	500, 000		2,20 0,00 0	1,7 00, 000	500, 000		2,20 0,00 0	5,10 0,00 0	1,50 0,00 0	-	6,60 0,00 0					
		Review/U pdating of the eLCCAP,	PDRRM O	4M			4M									4M				Reviewe d/update d eLCCAP				



Continge ncy Plan, Risk Communi cation Plan, PSCP											, CP, Risk Comm and PSCP		
Continue d dissemina tion of updated LDRRM Plan, eLCCAP, Continge ncy Plans and other plans to all stakehold ers including BALDRR MO and PDRRM Council 2.1 Conduct of review of LDRRM plans of LGUs	PDRRM O	250 ,00 00. 00		250, 000. 00					250, 000. 00				
Conduct of vulnerabili ty and risk assessme nts provincew ide in partnershi p with the MDRRM Os and	PDRRM O	1.5 M		1.5M					1.5 M		vulnerab ility and risk assessm ent tool to be used province wide - support to the LGUs on		



other agencies											the CDRA		
Conduct of capdev and IEC on the vulnerabili ty and risk assessme nt results and formulatio n of vulnerabili ty and updated hazard maps	PDRRM O	2M		2M					2M		massive and wide informati on of the vulnerab ility and risk assessm ent result and the updated hazard and vulnerab ility maps		
Conduct of workshop s to contextua lize the EWS with the LGUs per watershe d area in coordinati on with BEMO and other agencies Passing of Ordinanc e establishi ng the Province wide EWS per hazard	PDRRM O	300 ,00 0.0 0		300, 000. 00					300, 000. 00		Early Warning Protocol s per watersh ed area Approve d Provinci al Ordinan ce institutio nalizing EWS in the		



per watershe d area											watersh ed areas		
Conduct of workshop s/seminar s on geological and meteorolo gical man- made											Geomet IEC material s		
hazards Conduct inventory and mapping of heritage areas and tourism sites at risk to tsunami/s torm surge	PDRRM O	600 ,00 0.0 0		600, 000. 00					600, 000. 00		support to the reductio n of environe mntal areas at risk to hazards		
Installation of standard reflectorized early warning signages, prioritizing most hazard prone areas	PDRRM O	3M		3M					3M		IEC to spport the reductio n of populati on at risk to hazards		
Partnersh ip and collaborat ion with NGAs (Climate	PDRRM O	50, 000 .00		50,0 00.0 0					50,0 000. 00		Strength ened partners hip with the Climate		



Change Commissi on), CSOs and the Academe in DRRM thru Memoran dum of Agreeme nt (MOA), private/bu siness sector, CSOs, League of LDRRMO s, MPDCs, LGUs, academe, professio nal organizati ons and others to formalize their commitm ents and										Change Commis sion and other relevant organiza tions in DRRM Memora ndum of Agreem ents with partners		
Conduct massive orientatio n and IEC on the Safety and Health Accreditat ion and Policy Standard	500 ,00 0.0 0		500, 000. 00					500, 000. 00				



s and BOMRAC IO for tourism- based facilities and activities Conduct											conduct		
of cloudsee ding operation s as mitigating measure for dry spell for the agricultur e sector	OPA	2.5 M		2.5M					2.5 M		of cloudse eding operatio n		
Construction of operation centers/ substation s cum evacuation and relief operation center in strategic municipalities in the province and vital structures for the operation of PDRRMC Command Center Institution	PDRRM O, OPSWD		2.5M	2.5M					2.5 M		fully equippe d and function al operatio n center serving also as mini evacuati on and relief operatio n center in strategic municip alities in the province		
Institution alization/ establish	PDRRM O	3M		3M					3M		>Purcha sed devices		



ment of early warning and forecastin g system at prioritized watershe d areas in the province and in the municipali ties											necessa ry for the monitori ng and commun ication of emergen cy/disast er- related concern s. > purchas ed and installed rain gauges in the municip ality		
Conduct of workshop s to contextua lize the EWS within the LGUs per watershe d Passing of Ordinanc e establishi ng the	PDRRM O, BPEMO	1.5 M		1.5M					1.5 M		> To come up with strategie s and actions to reduce vulnerab ilities of high-risk commun ities to flooding and landslide s To institutio nalize EWS in the province		



provinide EV per hazaro per waters d area	/S he											
Inform n dissen tion at comm y level the EV in localiti and condu of pre- disaste risk assess nts/ trainin	PDRRM O PDR	750 ,00 0.0 0	75 00 0	0,				750, 000. 00		increase awarene ss of EWS in the grassroo ts and to prepare the commun ity of impendi ng weather disturba nce		
Establ update databate of hum resour and the capacity of the c	PDRRM O se an O ce eir tites nen rie s ses ng gin	300 ,00 0.0 0	30 00 0	0.				300, 000. 00		make/up date databas e of possible respons e teams and voluntee rs per hazard area and determin e the prepare dness level of affected commun ity		



	lifeline facilities																		
	Formulati on of the Disaster Response Operation s Manual	PDRRM O	500 ,00 0.0 0		500, 000. 00							500, 000. 00				To come up with unified respons e approac hes/prot ocols for disaster respons e among agencie s involved for adoption province wide			
Typhoo n, Severe Wind, Flooding	Construction of Flood-Control Infrastruct ures in coordination with national agencies and other stakehold ers	PEO, MEO, DPWH	1,4 20, 000	650, 000	2,07 0,00 0	1,420, 000	650, 000	2,07 0,00 0	1,4 20, 000	650, 000	2,07 0,00 0	4,26 0,00 0	1,95 0,00 0	-	6,21 0,00 0	List of target areas/sit es	Complet ed Detailed Enginee ring design	Flood control measu res imple mente d by LGU throug h the assista nce of the Provin ce and DPWH	
	Rehabilita tion of existing Flood- Control Infrastruct ures in coordinati on with concerne	PEO, MEO, DPWH	950 ,00 0	500, 000	1,45 0,00 0	950,00 0	500, 000	1,45 0,00 0	950 ,00 0	500, 000	1,45 0,00 0	2,85 0,00 0	1,50 0,00 0	-	4,35 0,00 0	Formulat ed Initial Detailed Enginee ring plan and design	Complet ed Detailed Enginee ring plan and design	Improv ed and rehabil itated Flood- Contro I Infrastr ucture s	



	d agencies																		
	Strict implemen tation of policies and guidelines (Environ mental Laws, Building Code and No-Build Zones and CLUP)	MENRO, MEO, MPDC, SB, MO	1,0 00, 000	350, 000	1,35 0,00 0	1,000,	350, 000	1,35 0,00 0	1,0 00, 000	350, 000	1,35 0,00 0	3,00 0,00 0	1,05 0,00 0	-	4,05 0,00 0	Passed new? Addition al? policies and guidelin es (Environ mental Laws, Building Code and No-Build Zones and CLUP	Enforce d policies and guidelin es (Environ mental Laws, Building Code and No-Build Zones and CLUP)	Revie w the existin g policie s and guideli nes	
	Provision of climate change-resilient projects (High-Density Polyethel yn (HDPE) Cages, fiberglass boats, etc. in coordinati on with concerne d national agencies and other stakehold ers		750 ,00 0		750, 000	750,00 0		750, 000	750 ,00 0		750, 000	2,25 0,00 0	-	-	2,25 0,00 0	Develop ed a full- blown Project Proposal	Obtaine d partners hip with NGAs and _ C/MLG Us for the HDPE Cages, fiberglas s boats	Purch ased and deliver ed HDPE Cages , fibergl ass boats to _ numbe r of C/ML GUs	



	Preparati on of the Detailed Engineeri ng design and Structural Analysis				-			-			-	-	-	-	-				
	Repair & retrofitting of roads, bridges, seawall		1,5 50, 000		1,55 0,00 0	1,550, 000		1,55 0,00 0	1,5 50, 000		1,55 0,00 0	4,65 0,00 0	-	-	4,65 0,00 0			Compl eted, upgrad ed and safer roads, bridge s, seawal I in district ?	
	Provision of Climate- smart industries and facilities	BIPC/BIC TO/PEO/ DOST/DI CT/DOE	10, 000 ,00 0		10,0 00,0 00	10,000		10,0 00,0 00	10, 000 ,00 0		10,0 00,0 00	30,0 00,0 00			30,0 00,0 00	Provided Climate- smart industrie s and facilities to affected coastal commun ities (solar panels, solar street lights)	Provide d Climate- smart industrie s and facilities to affected coastal commun ities (solar panels, solar street lights)	Provid ed ed Climat e-smart industries and facilitie s to affecte d coasta I comm unities (solar panels , solar street lights)	DOST/ DICT/D OE- GAA



	Support to the reduction of built-up at risk to Ground Shaking, Earthqua ke- Induced Landslide , Liquefacti on	Conduct of orientation on the Bohol hazards and risk profile and impacts to structures and the strict implementation of the National Building Code	PDRRM O	100,00		100, 000			-			-	100,	-	-	100, 000	47 municip alities and 1 city			
Earthqu ake, Grounds haking,			PEO, DPWH	200 ,00 0		200, 000			-			-	200, 000	-	-	200, 000	Province wide			
Liquefac tion		Conduct of Geotechn ical site surveys on built-up areas with Karst ground formation to identify Site Response and Subsiden ce	PDRRM O, PEO, PPDO, GO	100 ,00 0		100, 000	200,00		200,			-	300, 000	-	-	300,	MOA with Tagbilar an City, PhIVolc S, MGB, and required trainings	Geotech nical site survey and map of Tagbilar an City		
		Procurem ent by PGBh of GPR and operation s and				-		6,50 0,00 0	6,50 0,00 0	200 ,00 0		200, 000	200, 000	6,50 0,00 0	-	6,70 0,00 0			Site survey study of priority	



	data interpretat ion training																	C/ML GUs		
	Retrofittin g of bridge structures	PEO		-	50,000			50,0 00,0 00	51, 000 ,00 0		51,0 00,0 00	101, 000, 000	-	-	101, 000, 000		1 structur e retrofitte d	1 structu re retrofitt ed		
Support to the reduction of environm ental areas at risk to Ground Shaking, Earthqua ke-Induced Landslide, Liquefacti on	Establish Continuo us GPS Network for Crustal Deformati on Studies	PDRRM O, BICTO	9,00 0,00 0	9,00 0,00 0		9,00 0,00 0		9,00 0,00 0		6,00 0,00 0	6,00 0,00 0	-	24,0 00,0 00	-	24,0 00,0 00	3 stations	3 stations	2 station s	PGBh, JICA	
Support to the reduction of heritage areas and tourism sites at risk to Ground Shaking, Earthqua ke-Induced Landslide, Liquefacti on	Retrofittin g and Detail Profiling of heritage structures (i.e. churches)	CCAD, BACH Council					100,0 00,00 0	100, 000, 000			ı	-	-	100, 000, 000	100, 000, 000		structur e retrofitte d (Baclay on)		NHI	



	Support to the reduction of populatio n at risk to Tsunami	Install early warning sensors and alarm system for tsunami	PDRRM O			-		3,00 0,00 0	3,00 0,00 0			-	-	3,00 0,00 0	-	3,00 0,00 0		1 early warning system operatio nal and installed for souther n municip alities?		Coverin g 12 towns in the south- east
Storm Surge and Tsunami	Support to the reduction of environm ental areas at risk to Tsunami	Coastal vegetatio n, mangrove plantation	ВРЕМО	700 ,00 0		700, 000	350,00 0		350, 000	25, 000		25,0 00	1,07 5,00 0		-	1,07 5,00 0	Planted mangrov e seedling s in Tagbilar an City, Dauis, Panglao, Baclayo n, Albur, Loay, Lila, Dimiao, Valencia , Garcia- Hernand ez, Jagna, Duero, Guindul man, Anda	Planted mangro ve seedling s in Candija y, Mabini, Maribojo c, Calape, Tubigon , Clarin, Inabaga	Plante d _ mangr ove seedli ngs in Buena vista, Getafe , Talibo n, Bien Unido, Ubay	
		Enactmen t of Ordinanc e on No Build	PDRRM O/SP			-			-			-	-	-	-	-	Approve d Ordinan ce	Impleme ntation and monitori ng	Imple mentat ion and monito ring	



	Zone Areas																			
	LGU to identify relocation areas	GO/PPD O			-			-			-	-	-	-	-	Relocati on areas identifie d	Funding and acquisiti on	Develo pment of relocat ion sites		
	Conduct mangrove rehabilitat ion activities	BPEMO/ DENR/M LGUs	5,0 00, 000		5,00 0,00 0	5,000, 000		5,00 0,00 0	5,0 00, 000		5,00 0,00 0	15,0 00,0 00	-	-	15,0 00,0 00	Establis hed mangrov e nurserie s in 10 MLGUs	Establis hed mangro ve nurserie s in 10 MLGUs	Establi shed mangr ove nurseri es in 10 MLGU s	BPEMO - GF	DENR- GAA
	Provide livelihood opportunit ies in the mainland	PESO/D OLE/DS WD	5,0 00, 000		5,00 0,00 0	5,000, 000		5,00 0,00 0	5,0 00, 000		5,00 0,00 0	15,0 00,0 00	-	-	15,0 00,0 00	List of skills inventor y	Skills Matchin g	Monito ring of hired skilled worker s	PESO- GF	DOLE/ DSWD- GAA
	Inventory of critical facilities and lifelines	PEO/PP DO/PHO			-			-			-	,	-	-	-	Databas e of critical facilities and lifelines	List of recomm ended critical facilities and lifelines for rehab/re trofitting	Upgra ded and retrofitt ed _ # of structu res		
	Assess structural integrity	PEO/DP WH	1,0 00, 000		1,00 0,00 0	1,000, 000		1,00 0,00 0	1,0 00, 000		1,00 0,00 0	3,00 0,00 0	-	-	3,00 0,00 0	Assess ment report	Assess ment report	Asses sment report	PEO- GF	DPWH- GAA
	Mapping	PPDO/N AMRIA/P HIVOLCS /PAG- ASA	1,0 00, 000		1,00 0,00 0	1,000, 000		1,00 0,00 0	1,0 00, 000		1,00 0,00 0	3,00 0,00 0	-	-	3,00 0,00 0	Province wide storm surge and tsunami maps updated	Provinc ewide storm surge and tsunami maps updated	Provin cewide storm surge and tsuna mi maps	PPDO- GF	5% of the MLGU LDRR MF



 _	_		_		_		_	_				_			_		_			_
																		update d		
Ongoing constructi on of access roads (Talibon)	DPWH		53,0 00,0 00	53,0 00,0 00		15,0 00,0 00		15,0 00,0 00		15,0 00,0 00	15,0 00,0 00	-	83,0 00,0 00	-	83,0 00,0 00	construc ted access road in Talibon	construc ted access road in Talibon	constr ucted access road in Talibo n		DPW GAA
Ongoing constructi on of access roads (Ubay)	DPWH		150, 000, 000	150, 000, 000		100, 000, 000		100, 000, 000		100, 000, 000	100, 000, 000	-	350, 000, 000	-	350, 000, 000	construc ted access road in Ubay	construc ted access road in Ubay	constr ucted access road in Ubay		DPW GAA
Inventory of agricultur al areas and critical commodit ies	OPA/OP V/DA	1,0 00, 000		1,00 0,00 0	1,000, 000			1,00 0,00 0	1,0 00, 000		1,00 0,00 0	3,00 0,00 0		-	3,00 0,00 0	Databas e of exposed /high risk agricultu ral areas	Databas e of exposed /high risk agricultu ral areas	Datab ase of expos ed/hig h risk agricul tural areas	OPA/OP V- GF	DA- GAA
Identify relocation area for livestock and fisheries	OPA/OP V/DA			-				-			-	-	1	-	-	Relocati on sites identifie d	Acquisiti on of the relocatio n sites	Develo pment of relocat ion sites		
Facilitate for crop insurance to PCIC including livestock and poultry	OPA/OP V/DA	10, 000 ,00 0		10,0 00,0 00	10,000			10,0 00,0 00	10, 000 ,00 0		10,0 00,0 00	30,0 00,0 00	-	-	30,0 00,0 00	Approve d crop insuranc e for farmers	Approve d crop insuranc e for farmers	Datab ase of livesto ck owner s	OPA/OP V- GF	DA- GAA
Strict implemen tation of building code	MLGU			-				-			-	-	•	-	-	Disaster resilient buildings	Disaster resilient building s	Disast er resilie nt buildin gs/zer o buildin		



																D 11	0	gs on salvag e zone area		
	Assess existing evacuatio n centers	PEO/OP SWD/PD RRMO/O CD/MLG U			-			-			-	-	-	-	-	Databas e of all existing evacuati on centers and present conditio n	Clustering of C/MLG Us for the establis hment of evacuation centers	Evacu ation center s compli ant with standa rds		
	Facilitate for insurance coverage of buildings	MLGU/P GSO	50, 000 ,00 0		50,0 00,0 00	50,000		50,0 00,0 00	50, 000 ,00 0		50,0 00,0 00	150, 000, 000	-	-	150, 000, 000	Number of buildings insured	Renewa I of premiu ms	Renew al of premiu ms	PGSO- GF	MLGU GF
	Seawall Constructi on (Ubay)	DPWH		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00		150, 000, 000	-	150, 000, 000	Construc tion of Seawall- Phase I	Constru ction of Seawall- Phase II	Construction of Seawa II-Phase III		DPWI GAA
	Seawall Constructi on (Clarin)	DPWH		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00	-	150, 000, 000	-	150, 000, 000	Construc tion of Seawall- Phase I	Constru ction of Seawall- Phase II	Construction of Seawa II-Phase III		DPWI GAA
	Seawall Constructi on (Bien Unido)	DPWH		100, 000, 000	100, 000, 000		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00	-	200, 000, 000	-	200, 000, 000	Construc tion of Seawall- Phase I	Constru ction of Seawall- Phase II	Construction of Seawa II-Phase III		DPWI GAA
	Flood Control Structure (Inabanga)	DPWH		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00		150, 000, 000	-	150, 000, 000	Construc tion of flood control structure	Constru ction of flood control structur	Construction of flood control		DPWI GAA



																- Phase	e- Phase II	structu re- Phase		
	Shore Line Protection (Ubay)	DPWH		100, 000, 000	100, 000, 000		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00	-	200, 000, 000	-	200, 000, 000	Construction of shore line protection n-Phase I	Constru ction of shore line protectio n- Phase II	III Construction of shore line protect ion- Phase III		DPWH- GAA
	Shore Line Protection (Buenavis ta)	DPWH		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00	-	150, 000, 000	-	150, 000, 000	Construction of shore line protection n-Phase I	Construction of shore line protection n-Phase II	Construction of shore line protect ion-Phase III		DPWH- GAA
	Shore Line Protection (Pres. CPG)	DPWH		100, 000, 000	100, 000, 000		50,0 00,0 00	50,0 00,0 00		50,0 00,0 00	50,0 00,0 00	-	200, 000, 000	-	200, 000, 000	Construction of shore line protection n-Phase I	Constru ction of shore line protectio n- Phase II	Construction of shore line protect ion-Phase III		DPWH- GAA
	Inventory and mapping of heritage areas and tourism sites at risk to tsunami/s torm surge	BTO/DO T/NHCP/ NM	250 ,00 0		250, 000	250,00 0		250, 000	250 ,00 0		250, 000	750, 000	-	-	750, 000	Databas e of all _% heritage areas and tourism sites	Databas e of all _% heritage areas and tourism sites	Datab ase of all _% heritag e areas and touris m sites	BTO- GF	NM- GAA



	Facilitate in the identificati on of nearest evacuatio n areas for tourist	BTO/MD RRMO			-			-			-	-	-	-	-	List of safe evacuati on areas Map and clear route of nearest and safe evacuati on centers				
	Assessm ent of the structural integrity of heritage areas and tourism sites	BTO/DP WH/NCC A/NM/NH CP	350 ,00 0		350, 000	350,00 0		350, 000	350 ,00 0		350, 000	1,05 0,00 0	1	-	1,05 0,00 0	Assess ment Report of heritage areas	Assess ment Report of heritage areas	Asses sment Report of heritag e areas	BTO- GF	DPWH/ NCCA/ NM/NH CP- GAA
Sinkhole	Conduct of ground surveying and monitorin g	PDRRM O and targeted MLGUs	50, 000		50,0 00	50,000		50,0 00	50, 000		50,0 00	150, 000	-	-	150, 000	Complet ed and approve d Survey and Monitori ng Report for Phase 1: Jagna, Carmen, Sierra Bullones , Pilar, Bilar, Batuan, Sevilla, Loay	Complet ed and approve d Survey and Monitori ng Report for Phase 2: Valencia , Dauis, Panglao , Baclayo n (Pamila can Is.), Panglao (Balicas ag Is.), Anteque ra,	Completed and approved Survey Report for Phase 3: Tagbil aran City, Tubigo n, Calape, Sikatu na, Corell a, Catigbi ann, San Isidro, Maribo	Prov'l DRRMF	The targete d LGUs per year will have their own allocati on for the said PPA.



																	Cortes, Loboc	joc, Balilih an		
	Facilitate in the conduct of KARST Subsiden ce Hazard Assessm ent by MGB -Updating of Hazard Maps for Sinkhole	PDRRM O and targeted MLGUs	50, 000		50,0 00	50,000		50,0 00	50, 000		50,0 00	150, 000	-	-	150, 000	1 KARST Subside nce Hazard Assess ment by MGB per LGU - Phase 1 8 Digitized hazard maps for identifie d LGUs - Phase 1	1 KARST Subside nce Hazard Assess ment by MGB per LGU - Phase 2 8 digitized hazard maps for identifie d LGUs- Phase 2	1 KARS T Subsid ence Hazar d Asses sment by MGB per LGU - Phase 3 8 digitize d hazard maps for identified LGUs-Phase 3	Prov'l DRRMF	The targete d LGUs per year will have their own allocati on for the said PPA. PDRR MO will help in the facilitati on and coordin ation with MGB.
	Installatio n of No Build Zone/NO Dumping Signages for identified areas	PDRRM O, PEO, PPDO	50, 000		50,0 00	50,000		50,0 00	50, 000		50,0 00	150, 000	-	-	150, 000	10 sites installed with No Build Zone/Du mping Site signage s	10 sites installed with No Build Zone /Dumpin g Site signage s	10 sites installe d with No Build Zone /Dump ing Site signag es	Prov'l DRRMF	



	t t t c c c c c c c c c c c c c c c c c	Support to LGUs to develop/ update of Climate and Disaster Risk Assessm ent	PDRRM O and targeted MLGUs	50, 000		50,0 00	50,000		50,0 00			-	100,	-	-	100,	CDRA results of identifie	CDRA results of identifie		Prov'I DRRMF	The targete d LGUs per year will have their own allocati on for the said PPA. PDRR MO will help in the facilitati on and coordin ation with
	C C C ii	Facilitate on the Cordonin g/Fencing of identified Sinkhole areas	PDRRM O and targeted MLGUs	30, 000		30,0 00	30,000		30,0 00	30, 000		30,0 00	90,0	-	-	90,0	10 sites cordone d/fenced	10 sites cordone d/fenced	10 sites cordon ed/fen ced	Prov'l DRRMF	MGB.
EIL	I r E Z S f f	Installatio n of No Build Zone Signages for identified areas	PDRRM O, PEO, PPDO	50, 000		50,0 00	50,000		50,0 00	50, 000		50,0 00	150, 000	,	-	150, 000	Installati on of No Build Zone Signage s for identifie d areas	10 sites installed with No Build Zone Site signage s	10 sites installe d with No Build Zone Site signag es	Prov'l DRRMF	
	t ii u	Support to LGUs in updating Hazard	PDRRM O, PPDO	300 ,00 0		300, 000			-			-	300, 000	-	-	300, 000	1 digitized hazard map for each		3	Prov'l DRRMF	



Maps fo EIL															identifie d LGU				
Support to LGUs to develop pdate of Climate and Disaster Risk Assessr ent	PDRRM O and targeted MLGUs	50, 000		50,0 00	50,000		50,0 00			-	100,	-	-	100,	CDRA results of identifie d LGUs	CDRA results of identifie d LGUs			
Support in the construction of slope protection structure.	ti PDRRM O, PEO, PPDO, DPWH			-			-		100, 000, 000	100, 000, 000	-	100, 000, 000	-	100, 000, 000			1 slope protect ion structu re constr ucted	DPWH	
Support in the identification & assessment or roads and bridges that are suscept e to EIL Support in the identification & assessment of schools that are suscept e to EIL	PEO, PDRRM O, PPDO DI PDRRM O, PPDO or PDRRM O, PPDO diti OPSWD, PDRRM O, PPDO	300,00		300, 000	300,00		300, 000	300 ,00 0		300, 000	900,	-	-	900,	Databas e of identifie d and assesse d roads and bridges that are suscepti ble to EIL Databas e of identifie d and assesse d schools that are suscepti ble to EIL	Databas e of identifie d and assesse d roads and bridges that are suscepti ble to EIL Databas e of identifie d and assesse d schools that are suscepti ble to EIL	Datab ase of identifi ed and assess ed roads and bridge s that are susce ptible to EIL Datab ase of identifi ed and assess ed	Prov'l DRRMF	



Support in the identificati on & assessme nt resettlem ent sites & evacuatio n areas provincew ide														List of identified and assessed resettle ment sites & evacuati on areas province wide	List of identifie d and assesse d resettle ment sites & evacuati on areas province wide	school s that are susce ptible to EIL List of identifi ed and assess ed resettl ement sites & evacu ation areas provin		
Support to the reduction of critical facilities and lifelines at risk to Ground Shaking, Earthqua ke-Induced Landslide , Liquefacti on	Construct slope protection on landslide prone areas along major roads, and communit ies		-	-	10,0 00,0 00	10,0 00,0 00	10, 000 ,00 0	10,0 00,0 00	20,0 00,0 00	10,0 00,0 00	20,0 00,0 00	-	30,0 00,0 00			cewide 1 priority area	1 priority area	
Construct slope protection on landslide prone areas			-			•			•	ı	-	-	1					



	along major roads, and communit ies														1	PDRRM	Lack of
	Additional Drilling for water source	PDRRM O, PPDO, PEO	500, 000	500, 000	500, 000	500, 000	300, 000	300, 000	•	1,30 0,00 0	•	1,30 0,00 0	2 water drilling establish ed per LGU	2 water drilling establis hed per LGU	water drilling establi shed per LGU	Fund,O ut Source	Funds
Drought	Construction of additional rain water collectors and reservoir Mandator y in all government own buildings (3m x6m x 0.4m)	PDRRM O, PPDO, 48 LGU's	33,6 00,0 00	33,6 00,0 00	33,6 00,0 00	33,6 00,0 00	33,6 00,0 00	33,6 00,0 00	-	100, 800, 000	-	100, 800, 000	2 units rain water collector and reservoir establish ed /LGU (48 LGU's)	2 units rain water collector and reservoi r establis hed /LGU (48 LGU's)	2 units rain water collect or and reserv oir establi shed /LGU (48 LGU's)	PDRRM Fund, LDRRM Fund, Out Source, NGA's,	Lack of Funds
	Conduct Feasibility study of Desalinati on of water facilities	PDRRM O	200, 000	200,	200, 000	200,	200, 000	200,	-	600,	-	600, 000	Pre- determin ed done	Conduct ed study	Completed the study and presented the proposal for possible funding of the contruction of the Desali nation of	PDRRM Fund. JICA, LGU	Able to constru ct the project of Desalin ation of water facilitie s as result after the study



																		water facilitie s to the top LGU's identifi ed		
	Installatio n of Solar powered pumps				-			•			-	-	-	-	-	Operatio nal powered pumps identifie d C/MLGU s				
	Mandator y planting of Banyan Tree, Bamboo tree	PDRRM O, PENRO, DENR, MENRO		1,00 0,00 0	1,00 0,00 0		1,00 0,00 0	1,00 0,00 0		1,00 0,00 0	1,00 0,00 0	-	3,00 0,00 0	-	3,00 0,00 0	3 municip alities planted with Banyan Trees and Bamboo tree (3,500 seedling)	3 municip alities planted with Banyan Trees and Bamboo tree (3,500 seedling)	3 munici palities plante d with Banya n Trees and Bamb oo tree (3,500 seedli ng)	PDRRM Fund. LGU	
	Conduct Cloud seeding	PDRRM O		2,50 0,00 0	2,50 0,00 0		2,50 0,00 0	2,50 0,00 0		2,50 0,00 0	2,50 0,00 0	-	7,50 0,00 0	-	7,50 0,00 0	All Municip alities	All Municip alities	All Munici palities	PDRRM Fund	
	Mangrove Plantation Program 33,000/ 100 hec.	PDRRM O, PENRO, DENR, MENRO	100 ,00 0	1,00 0,00 0	1,10 0,00 0	100,00	1,00 0,00 0	1,10 0,00 0	100 ,00 0	1,00 0,00 0	1,10 0,00 0	300, 000	3,00 0,00 0	-	3,30 0,00 0	Adaption to all coastal towns	Adaptio n to all coastal towns	Adapti on to all coasta I towns	PDRRM Fund, LGU's Coustal Area, DENR, DA	



		Promotio n of drip irrigation technolog ies, for selected high valued Commerc ial Crops (HVC)	PDRRM O, OPA, MAO		6,70 0,00 0	6,70 0,00 0				-		6,70 0,00 0		6,70 0,00 0	-	13,4 00,0 00	-	13,4 00,0 00	Adopted to all 45 Agricultu ral Municip alities	Adopted to all 45 Agricult ural Municip alities	Adopt ed to all 45 Agricul tural Munici palities		
		Establish Small Farm Reservior (SFR) 480 units	PDRRM O		9,60 0,00 0	9,60 0,00 0		9,60 0,00 0		9,60 0,00 0		9,60 0,00 0		9,60 0,00 0	,	28,8 00,0 00	-	28,8 00,0 00					
		Conduct farmers field school on climate change	PDRRM O, OPA, MAO	2,4 00, 000		2,40 0,00 0				,	2,4 00, 000			2,40 0,00 0	4,80 0,00 0	-	-	4,80 0,00 0	Farm field school establish ed in all municip alities		48 Munici palities	NIA, DA,PSF	
		Provision of crop insurance	PDRRM O, OPA	3,0 00, 000		3,00 0,00 0	3,000, 000		3,000, 000	6,00 0,00 0			3,0 00, 000	3,00 0,00 0	6,00 0,00 0	-	6,00 0,00 0	12,0 00,0 00	All Agricultu ral Towns (45 Municip alities)	All Agricult ural Towns (45 Municip alities)	PDRR MFund , DA, MAO, OPA		
RIL	Reduction or risk populatio n	Constructi on of Slope protection structure	PDRRM O, PPDO, PEO		40,0 00,0 00	40,0 00,0 00		50,0 00,0 00		50,0 00,0 00		60,0 00,0 00		60,0 00,0 00	-	150, 000, 000	-	150, 000, 000	Slope protectio n impleme nted in _ of C/MLGU s	Slope protectio n impleme nted in _ of C/MLG Us f	Slope protect ion imple mente d in _ of C/ML GUs	DPWH, DENR,L GU	
		Tree growing project	PDRRM O, PPDO, PEO	300 ,00 0		300, 000	400,00 0			400, 000	500 ,00 0			500, 000	1,20 0,00 0	-	-	1,20 0,00 0	Planted # of trees (in the identifie d	Planted # of trees (in the identifie d	Plante d # of trees (in the identifi ed	DPWH, DENR, LGU, DA	



																	C/MLGU s	C/MLG Us	C/ML GUs		
		SP Ordinanc e for No build zone on identified RIL areas in whole Province	PDRRM O, SP	10, 000		10,0 00			-			-	10,0 00	-	-	10,0 00	Approve d Ordinan ce			PDRRM Fud	
		Conduct inventory and mapping of critical point facilities in the Province	PDRRM O, PEO	100 ,00 0		100, 000			-			,	100, 000	-	-	100, 000	Inventor y and mapping conduct ed			PDRRM Fund	
	Agricultur e	Promote farmers to practice the process of Contour Farming Technolo gy per LGU (mandato ry)	PDRRM O, BEMO, PEO,	50, 000		50,0 00	50,000		50,0 00	50, 000		50,0 00	150, 000	-	-	150, 000	Contour Farming Technol ogy adopted			PDRRM Fund	
OUTBR EAK OF INFECT IOUS		Ordinanc e on the establish ment of MESU in all C/MLGUs				-			-			•	-	1	-	•	48 C/MLGU s with establish ed MESU				
DISEAS ES		Organizat ion of Water Quality Monitorin	P/C/MLG U	168 ,00 0		168, 000	201,60		201, 600	268 ,80 0		268, 800	638, 400	-	-	638, 400	60 pax (RHU, Water works, Brgy council)	60 pax (RHU, Water works, Brgy council)	60 pax (RHU, Water works, Brgy	5% LDRRM F	



g (Policy Support)																	council)	
Zero Open Defecati n (ZOD)Te hnical assistan e	P/C/MLG U	60, 000		60,0	72,000		72,0 00	86, 400		86,4 00	218, 400	-	-	218, 400	40% of all Baranga ys ZOD	50% of all Baranga ys ZOD	70% of all Baran gays ZOD	
Protocol on the allocatio of Isolation beds during EREID Outbreal s	P/C/MLG U	76, 800		76,8 00	92,160		92,1 60	110 ,59 2		110, 592	279, 552	1	-	279, 552	Ordinan ce approve d and funded			
Policy Support for the establish ment of 24/7 OpCen with budget appropri ion				-			-				-		-	-	Ordinan ce approve d and funded			



DRRM Fund Investment Plan - Province of Bohol

Prepare	edness																							
GROUP	Function al Classific ation	PPA Code and Descripti on	Impleme nting Office	Period	of Imple	ementation														Expecte	d Output		Fu ndi ng So urc	Rem arks
				Year 1	(2023)			Year 2	(2024)			Year 3 (2025)			Total fo	or 2023-2	025					е	
			Startin	g Date:	January		Startin	g Date:	January		Starting	Date: Ja	inuary											
			Compl	etion Da	te: Decemi	ber	Compl	etion Da	ite: Decer	nber	Comple	tion Date	: December	r										
				MOO E	СО	Others	Total	MOO E	СО	Othe rs	Total	MOOE	СО	Other s	Total	MOO E	CO	Oth ers	TOT AL	2023	2024	2025		
All Hazard		Conduct of DRRM-related trainings, emergenc y drills and workshop s to the PDRRMC, MDRRM Os and LGUs including the response teams and the creation of SRR Team, DANA Team, Accredite d Communi	PDRRMO	8.5M			8.5M									8.5M				>To train Brgy. Official s on disaste r prepar ednes s. > Condu ct of series of predisaste r risk assess ment meetin gs and trainin gs				



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Casualty												



Managem ent Training, Training on WASH, MHPSS, Strategic Risk Communi cation, Training on Nutrition in													
in Emergen cies, RDANA, PDNA, ERT and others Conduct of DRRM- CCA Training and advocacie s for vulnerabl e sectors and PSWDO personnel	PDRRMO	1M		1M					1M		To reduce distres s and rstore normal cy among the affecte d groups (childr en,		
											wome n, etc) experi encing trauma tic events		
Basic Skills training for emergenc	PDRRMO	750, 000. 00		750, 000. 00					750,0 00.00		To condu ct and partici pate		



у											DRRM		
responder											-		
s and											related		
other											trainin		
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Tagbilara n, including substatio ns in Ubay, Jagna, Carmen, 500Loon, Baliliban, Tallibon and Candijay and other volunteer s including EMS NC II, WaSAR, EMT-B, and others Upgradin	Other Machiner ies and equipme nt		E 40	5,19					E 101		and rescue operati ons as mecha nism for disaste r risk reducti on		
g/ Additional equipmen t for all TaRSIER substatio n offices	PURRING		5,19 1,56 5.15	1,56 5.15					5,191 ,565. 15				
Capability building training for the establish ment of emergenc y response units upon request of LGUs of Bohol	PDRRMO	100, 000. 00		100, 000. 00					100,0 00.00		To capacit ate LGUs as the first respon ders in their respec tive comm unities		



Support to the activities of the Bohol Associati on of LDRRM Officers and PDRRMC		750, 000. 00		750, 000. 00					750,0 00.00		To strengt hen partner ship in disaste r respon se activiti		
including its regular meetings procurem ent of SRR and	PDRRMO	10M		10M					10M		> to purcha		
WaSAR equipmen	PURRINO										se disaste r respon se tool for use in		
											emerg ency respon se > to purcha se		
											disaste r respon se equip ment		
											to meet the deman ds of search		
											and water rescue		



	Productio	PDRRMO	200, 000.		200,						200,0		Increa			
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health sector to better manage emerging and re- emerging diseases											health sector to addres s diseas es during calamit ies or outbre ak		
Conduct of capdev and vulnerabili ty measures to swine stakehold ers to reduce risk in livelihood and investme nt - capacitat e organized farmers associatio n and livestock growers on the potential impacts of the hazard	PDRRMO , OPA, OPV	2M		2M					2M		preven t vulner ability and expos ure of local swine to ASF viral infection		
Stockpilin g of basic emergenc y supplies/f	OPSWD	2M		2M					2M		Purcha se of relief goods in		
ood packs											prepar		



	assistanc e to affected families (food and non-food items)															ation or in the event a natural or man- made disaste r/cala mity is predict ed (i.e. typhoo n, health, EREID , diseas e outbre ak, etc)		
	Upgradin g of the communi cation equipmen t at Unified Comman d Center	PDRRMO		11M	11M							11M						
Floding , Typhoo n, Severe wind	Installatio n of Early Warning System (EWS)	PDRRM O	1,00 0,00 0	500, 000	1,50 0,00 0	1,00 0,00 0	500,0 00	1,500, 000	1,000, 000	500,00	1,500, 000	3,000	1,500 ,000	-	4,50 0,00 0	1.1 I nstallat ion of Early Warnin g Syste m		



	Inventory of existing Evacuatio n Centres	PDRRM O, OPSWD			-			-			-	-	-	-	-	1.2 Condu ct Capaci ty Develo pment for person nel and the comm unities on Pre- emptiv e Evacu ation			
	Establish ment of additional Standard Evacuatio n Centres	PDRRMO , C/MC/ML GUs, PEO	500, 000	1,20 0,00 0	1,70 0,00 0	500, 000	1,200	1,700, 000	500,00 0	1,200, 000	1,700, 000	1,500 ,000	3,600 ,000	-	5,10 0,00 0		Cons truct ed evac uatio n cent er in priori tyC/ MLG Us	Cons truct edf evac uatio n cente r in priori ty C/ML GUs	
	Provision of modern and state-of-the-art DRRM-related Equipmen t (Boom Trucks, Rescue Vehicles & Satellite /Handhel d Radios)	PDRRM O	300, 000	150, 000	450, 000	300, 000	150,0 00	450,00 0	300,00	150,00 0	450,0 00	900,0	450,0 00	-	1,35 0,00 0			Obtai ned equip ment for the provi nce	



Facilitate in the provision/ stockpilin g/preposit ioning of nutritious relief goods	OPSWD	200, 000	150, 000	350, 000	200, 000	150,0 00	350,00 0	200,00	150,00 0	350,0 00	600,0 00	450,0 00	-	1,05 0,00 0	Availa ble stockpi les for familie s	Avail able stock piles for famili es	Avail able stock piles for famili es	
conduct of Capacity Building Activities in coordinati on with concerne d NGAs and other stakehold ers	PDRRM O	100,		100, 000	100,		100,00	100,00		100,0	300,0	-	-	300, 000	Trainin g design develo ped based on the need of the PDRR MC	Train ed PDR RMC mem bers with?	Train ed PDR RMC mem bers with?	
6. Promote the establish ment of Quick/Em ergency Response Units in all MLGUs	PDRRM O	400, 000		400, 000	400, 000		400,00	400,00		400,0	1,200	-	-	1,20 0,00 0	Sugge stion: Increa sed aware ness on the import ance of Quick/ Emerg ency Respo nse Units of the C/MLG Us	Initia ted creat ion of Quic k/Em erge ncy Resp onse Units in 48 C/M LGU s		



Earthqu ake, ground shaking , liquefac tion	Support to the reduction of populatio n at risk to Ground Shaking, Earthqua ke-Induced Landslide , Liquefacti on	Conduct information n dessimina tion on what to do before during, and after disaster	PDRRMO			-			-			-		-	-	-	100 highly suscep tible barang ays increa sed aware ness on the impact s of ground shakin g, liquefa ction	100 highl y susc eptib le bara ngay s incre ased awar enes s on the impa cts of grou nd shaki ng, lique facti on	susc eptibl e bara ngay s cond ucted IEC incre ased awar enes s on the impa cts of grou nd shaki ng, liquef actio	
		Conduct Drills to various offices and schools	PDRRMO	20,0		20,0	20,0		20,000	20,000		20,00	60,00	-	-	60,0	5 school s, 5 offices and 2 2 hospit als partici pated in earthq uake drills	5 scho ols, 5 offic es and 2 hosp itals parti cipat in earth quak e drills	n 5 scho ols, 5 office s and 2 hospi tals partic ipate d in earth quak e drills	



	,																	
Create & Train Collapse Structure Search and Rescue Team	PDRRMO	1,75 0,00 0	1,7	750, 3,50 0,00 0		-			-	1,750 ,000	-	1,75 0,00 0	3,50 0,00 0	PGBh, Tagbil aran City with knowle dge and skills on Collap se Structu re Search and				
Establish Evacuatio n Center for communit ies highly susceptibl e to hazards	PPDO, PDRRMO			-	10,00	10,000		50,000	50,00 0,000	-	10,00	50,0 00,0 00	60,0 00,0 00	Rescu e Site identifi ed and validat ed for Evacu ation Center Passe d the set of standa rds require d by DSWD	Purc hase d of lot that pass ed stan dard s set by MGB and PHIV OLC S	1 const ructe d evac uatio n cente r to cater affect ed com munit ies	ND RR MF	



to re of fa ar life rise G SI ke	acilities and ifelines at	Establish Satellite- based internet connectivi ty using alternate source of power i.e. photovolt aic-based (solar) power system, portable power generator , etc.	PGBh (BICTO), MLGUs	107,		107, 000	72,0 00		72,000	72,000		72,00 0	251,0 00	-	-	251, 000	PGBh with access to interne t and power system			For PGB h only
		Establish Single Side Band (SSB) Radio Communi cation System (ICOM SSB system)	PDRRMO			-			-			-	-	-	-	-	munici palities and 1 city wi th operati onal SSB Radio Comm unicati on Syste m			
to re of	Support o the eduction of copulatio n at risk to rsunami	Conduct informatio n dessimina tion on what to do before during, and after disaster	PDRRMO			-			-			-	1		-		Trainor s trainin g, logistic s planni ng, and budget ing	100 highl y susc eptib le bara ngay s cond ucte d IEC	100 susc eptibl e bara ngay s cond ucted IEC	



Storm Surge, Tsuna mi	Conduct IEC to 30 coastal MLGUs	PDRRMO /MLGU			-			-			-	-	-	-	-	Increa se aware ness on the nature of storm surge, to dos, in 10 coastal MLGU s	Incre ase awar enes s on the natur e of stor m surg e, to dos, in 10 coas tal MLG Us	Incre ase awar enes s on the natur e of stor m surg e, to dos, in 10 coast al MLG Us	F9/	000
	Updating LDRRM Plan/Cont ingency Plan/LCC AP	PDRRMO /MLGU/O CD	1,50 0,00 0		1,50 0,00 0			-	2,000, 000		2,000, 000	3,500 ,000	-		3,50 0,00 0	Sugge stion: 30% of the C/MLG Us with compr ehensi ve risk- based LDRR MP	70% of the C/M LGU s with com preh ensiv e risk-base d LDR RMP	100 % of the C/ML GUs with comp rehe nsive risk-base d LDR RMP	of the LD RR MF	OCD- GAA
	Organize and capacitat e Emergen cy Response Teams	PDRRMO /MDDRM O	2,00 0,00 0		2,00 0,00 0	2,00 0,00 0		2,000, 000	2,000, 000		2,000, 000	6,000	-	-	6,00 0,00 0	Organi zed and capacit ated ERT to 10 coastal LGUs	Orga nize d and capa citat ed ERT to 10 coas tal LGU s	Orga nized and capa citate d ERT to 10 coast al LGU s	5% of the LD RR MF	5% of the LDR RMF of the MLG U



for respo	rance PDRRMO /MDDRM O O onder and munit onteer	2,00 0,00 0	2,00 0,00 0	2,00 0,00 0		2,000, 000	2,000, 000		2,000, 000	6,000	-	-	6,00 0,00 0	100% of the respon ders and 10% of comm unity volunt eers insure d	100 % of the resp onde rs and 10% of com muni ty volu nteer s insur ed	100 % of the resp onde rs and 10% of com munit y volun teers insur ed	5% of the LD RR MF	5% of the LDR RMF of the MLG U
ent respo	for onder and munit	1,00 0,00 0	1,00 0,00 0	1,00 0,00 0		1,000, 000	1,000, 000		1,000, 000	3,000	-	-	3,00 0,00 0	3 trainin gs condu cted to respon ders of 30 coastal MLGU s	Upd ating and upgr adin g of traini ngs	Upda ting and upgr ading of traini ngs	5% of the LD RR MF	5% of the LDR RMF of the MLG U
Train pool traine for MHP	of PHO/PD RRMO/D SWD/DO H	1,00 0,00 0	1,00 0,00 0	1,00 0,00 0		1,000, 000	1,000, 000		1,000, 000	3,000	-	-	3,00 0,00 0	10 coastal MLGU s trained on MHPS S	10 coas tal MLG Us train ed on MHP SS	10 coast al MLG Us train ed on MHP SS	5% of the LD RR MF	Unice f and INGO s
Conc of simu ous Provi wide Eme cy Dr	/MDDRM O vince ergen		•			-			-		•	-		Condu cted simulta neous Provin cewide Emerg ency Drills	Con duct ed simul tane ous Provi ncew ide	Cond ucted simul tane ous Provi ncew ide Emer		



_																					
																	to 30 coastal	Eme rgen	genc y		
																	MLGU s	cy Drills	Drills to 30		
																	5	to 30	coast		
																		coas tal	al MLG		
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		01 1 11	ODOMD/														500	Us		0.0	DOW
		Stockpilin g of food	OPSWD/ DSWD/M	1,50		1,50	2,00		2,000,	2,000,		2,000,	5,500	-	_	5,50	500 food	501 food	502 food	OP SW	DSW D-
		and non-	LGU	0,00		0,00	0,00		000	000		000	,000			0,00	packs	pack	pack	D-	GAA
		food items		0		0	0									0	stockpi led	s stock	s stock	GF	
																		piled	piled		
		Procurem ent of	OPSWD/ OCD	3,50		3,50						_	3,500		_	3,50	Acquir ed	Yearl y	Yearl y	OP SW	OCD- GAA
		wing van	OOD	0,00		0,00							,000			0,00	wing	main	maint	D-	OAA
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		Constructi on of	OPSWD/ GO/DSW	6,00		6,00			_			_	6,000	-	_	6,00	Standa rd	Man aged	Man aged	OP SW	OCD/ DSW
		warehous	D/OCD	0,00		0,00							,000			0,00	wareh	and	and	D-	D-
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		Establish	PDRRMO /MLGU			_						_	_	_	_	_	Establi shed	Esta blish	Esta blish		
		ment of	/IVILGO			-			-			-	-	-	-	-	DRRM	ed	ed		
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Distribution of Evacuation routes to community	PDRRMO /MLGU	1,50 0,00 0		1,50 0,00 0	1,50 0,00 0		1,500, 000	1,500, 000		1,500, 000	4,500 ,000	-	-	4,50 0,00 0	Datab ase/MI S set- up and operati onal in - numbe r of LGUs?	Data base /MIS set- up and oper ation al in - num ber of LGU s?	Data base/ MIS set- up and oper ation al in num ber of LGU s?	5% of the LD RR MF	5% of the LDR RMF of the MLG U
Conduct training for the officer-in-charge and personnel for critical facilities and lifelines on emergenc y managem ent training	PDRRMO - TARSIER 117/MLG U	1,00 0,00 0		1,00 0,00 0	1,00 0,00 0		1,000,	1,000, 000		1,000,	3,000			3,00 0,00 0	Conducted 2 trainings of the officer-in-charge and person nel for critical facilities and lifelines on emergency management training to 10 coastal MLGUs	Con duct ed 2 traini ngs of the offic er-in-char ge and pers onne I for critic al facilit ies and lifelin es on emer genc y man age ment traini ng to 10 coas	Cond ucted 2 trainings of the office r-in-char ge and pers onnel for critical facilities and lifelines on emer genc y man age ment training to 10 coast al	5% of the LD RR MF	5% of the LDR RMF of the MLG U



																	tal MLG Us	MLG Us		
e or fa as or liv gr or pr in	Capacitat arganized armers associarti and vestock arowers and the potential arganized	OPA/OPV	1,00 0,00 0		1,00 0,00 0	1,00 0,00 0		1,000,	1,000,		1,000,000	3,000	-	-	3,00 0,00 0	Capaci tated 100% of organi zed farmer s associ ation and livesto ck grower s on the potenti al impact s of the hazard to 10 coastal MLGU s	Cap acita ted 100 % of orga nize d farm ers asso ciatio n and livest ock grow ers on the pote ntial impa cts of the haza rd to 10 coas tal MLG Us	Capa citate d 100 % of orga nized farm ers asso ciatio n and livest ock grow ers on the pote ntial impa cts of the haza rd to 10 coast al MLG Us	OP A/O PV- GF	



e Mstaff comilies the up on emely y man.	acitat BIPC/PD RRMO/M F and Immunit within builtareas ergenc anagem of the and	1,00 0,00 0	1,00 0,00 0	1,00	1,000,	1,000,		1,000,	3,000	-	-	3,00 0,00 0	Capaci tated 100% MSME s manag ers within the built-up areas on emerg ency manag ement of the hazard to 10 coastal MLGU s	Cap acita ted 100 % MSM Es man ager s within the built-up area s on emer genc y man age ment of the haza rd to 10 coas tal MLG Us	Capa citate d 100 % MSM Es man ager s within the built-up area s on emer genc y man age ment of the haza rd to 10 coast al MLG Us	BIP C- GF	5% of the LDR RMF of the MLG U
of prote area man. ent to in the pote impa tsun.	nagem plans nclude ential acts of nami storm	1,00 0,00 0	1,00 0,00 0	1,00 0,00 0	1,000, 000	1,000,		1,000, 000	3,000,000		-	3,00 0,00 0	Updat ed 6 protect ed area manag ement plans	Upd ated 5 prote cted area man age ment plan s	Upda ted 5 prote cted area man age ment plans		DEN R- GAA



e e e c c e p a a m e e o o e e y y e e e e e e e e e e e p e e e e	e the -	ARSIER	1,00		1,00 0,00 0	1,00		1,000,	1,000,		1,000,	3,000	-	-	3,00 0,00 0	Capaci tated the executi ve committee of the 6 protect ed area manag ement board on emerg ency manag ement of the hazard	Cap acita ted the exec utive com mitte e of the 5 prote cted area man age ment boar d on emer genc y man age ment of the	Capa citate d the exec utive com mitte e of the 5 prote cted area man age ment boar d on emer genc y man age ment of the haza rd	DEN R- GAA
e n o e y n e h (!	e the site managers TA on 11 emergenc	ARSIER	1,00 0,00 0		1,00 0,00 0	1,00 0,00 0		1,000,	1,000,		1,000,	3,000	-	-	3,00 0,00 0	100% site manag ers with acquir ed skills on emerg ency manag ement of the hazard in 10 coastal MLGU s	rd 100 % site man ager s with acqu ired skills on emer genc y man age ment of the	100 % site man ager s with acqui red skills on emer genc y man age ment of the haza	NM- GAA



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		DRRM-	targeted MLGUs	000		000	000		0	0	1	00	,000			0,00	on	zed	d IEC	DR	
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	Condu of F Comm cation Trainir	Risk nuni I ng	300, 000		300, 000	300, 000		300,00 0	300,00 0		300,0 00	900,0 00	1	-	900, 000	1 trainin g condu cted	traini ng cond ucte d	traini ng cond ucted	Pro v'l DR RM F	
	Condu of US and S Trainir to Organ d Respo Teams	SAR and targeted mg MLGUs mize			-			-			-	-	-	-	-	1 trainin g condu cted	traini ng cond ucte d	1 traini ng cond ucted	PD RR MO and targ ete d ML GU s	
	Purcha of underver er ro and/or rescue drones	wat obot r e ss	3,50 0,00 0		3,50 0,00 0	3,50 0,00 0		3,500, 000				7,000	-	-	7,00 0,00 0	1 under water robot and/ rescue drone purcha sed	1 unde rwat er robot and/ resc ue dron e purc hase d			
EIL	Formu on/ Prepal on/ reprod on laymal d Di CCA materi	ducti of anize DRR- ials	350, 000		350, 000			-			-	350,0 00	-	-	350, 000	Layma nized IEC materi als				
	Distrib n laymar d materi on Di CCA	of , mDRRM IEC Os/ BALDRR	100,		100, 000							100,0 00	-	-	100, 000	1,116 Public School s, 1109 Baran gays ,				



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															Gover nment Offices			
Conduct of USAR and SAR Training to Organize d MLGU Response	PDRRMO and targeted MLGUs	300, 000		300, 000	300, 000		300,00	300,00		300,0	900,0	-	-	900,	1 trainin g condu cted	1 traini ng cond ucte d	1 traini ng cond ucted	
Teams Conduct of Collapsed Structure Search and Rescue (CSSR) for TaRSIER 117 Personnel	PDRRMO / TaRSIER 117	1,50 0,00 0		1,50 0,00 0	1,50 0,00 0		1,500,			-	3,000	-	-	3,00 0,00 0	1 CSSR trainin g condu cted for 10 person nel of TaRSI ER 117	1 CSS R traini ng cond ucte d for 10 pers onne I of TaR SIER 117		
Purchase of Disaster Response Equipmen t -SRR, EMS, CSSR	PDRRMO PDRRMO / TaRSIER 117	2,00 0,00 0		2,00 0,00 0			-			-	2,000	-	-	2,00 0,00 0	1 set of Respo nse Equip ment for SRR, EMS, CSSR	117		
Formulati on / Updating of Continge ncy Plan for EIL	PDRRMO	300, 000		300, 000			-			-	300,0 00	-	-	300, 000	1 formul ated/ update d CP for EIL			



	Formulati on of Disaster Response Operation s Manual	PDRRMO	300, 000		300, 000			-			-	300,0 00	-	-	300, 000	1 DROM formul ated				
Drough t	Prepositio ning of water truck (10,000 L)	PDRRMO , GSO		18,0 00,0 00	18,0 00,0 00		18,00 0,000	18,000		24,000 ,000	24,00 0,000	1	60,00 0,000	-	60,0 00,0 00	3 units water trucks acquir ed	3 units wate r truck s acqu ired	4 units water truck s acqui red	PD RR MO , BF P, G A's	Highl y need ed
	Conduct Informatio n Education Campaig n (IEC) every municipali ties	PDRRMO	100, 000		100, 000	100, 000		100,00	100,00		100,0 00	300,0 00	-	-	300, 000	Increa sed knowle dge and aware ness in 48 LGU	Incre ased know ledg e and awar enes s in 48 LGU	Incre ased know ledge and awar enes s in 48 LGU	PD RR MF und	
	Secure MOU with private water service utilities	PDRRMO	10,0 00		10,0 00			-			-	10,00	-	-	10,0 00	3 MOU secure d by the Provin ce			PD RR MF und	
	Provision of alternativ e crops suited in drought	PDRRMO , OPA	3,00 0,00 0		3,00 0,00 0	3,00 0,00 0		3,000, 000	3,000, 000		3,000, 000	9,000	1	-	9,00 0,00 0	All Agricul tural Towns (45 Munici palities)- adopte d	All Agric ultur al Tow ns (45 Muni cipali ties)- adop ted	All Agric ultur al Town s (45 Muni cipali ties)- adop ted	PD RR MF und , DA, MA O, OP A	



	Develop heritage and tourism master plan	PDRRMO ,BTO	500, 000		500, 000			-			-	500,0 00	-	-	500, 000	Activat ed to all existin g Touris m - LGU's	Activ ated to all existi ng Touri sm - LGU' s	Activ ated to all existi ng Touri sm - LGU' s	DO T, MU NIC IPA L, TO URI SM OF FIC E	
	Training of resort, boat operators and guide on CCA and DRR in all tourism facilities	PDRRMO , BTO	100,		100, 000	100, 000		100,00	100,00		100,0	300,0 00	-	-	300, 000	All touris m facilitie s trained	All touri sm facilit ies train ed	All touris m facilit ies train ed	Mu nici pal Tou ris m Offi ce	
RIL	Installatio n of standard reflectoriz ed early warning signages (4X4)	PDRRMO , LGU		5,00 0,00 0	5,00 0,00 0			-			-	-	5,000 ,000	-	5,00 0,00 0	Visible , clear early warnin g signag es installe d in strateg ic areas	Visib le, clear early warn ing sign ages instal led in strat egic area s	Visibl e, clear early warni ng signa ges instal led in strat egic area s	PD RR MF und , LD RR MF und ,DP WH	
	IEC dissemina tion	PDRRMO , LGU	50,0 00		50,0 00			-			-	50,00 0	-	-	50,0 00	LGUs with acquir ed knowle dge on RIL	f LGU s with acqu ired know ledg e on RIL	LGU s with acqui red know ledge on RIL	PD RR MF und , LD RR MF und	



	Preparati on of an evacuatio n plan for every LGUs	PDRRMO , LGU	50,0 00		50,0 00			-			-	50,00 0	-	-	50,0 00	48 LGU's			PD RR MF und , LD RR MF und	
	tCollapse d Structure Search and Rescue training (CSSR) for 48 LGU Respond ers	, LGU	150, 000		150, 000			-				150,0 00	-	-	150, 000	d 48 C/MLG Us with Collap sed Structu re Search and Rescu e			RR MF und , LD RR MF und , Re d Cro s	
	Procurem ent for Disaster response equipmen t (for SRRand EMS) PPE's and heavy equipmen t	PDRRMO , LGU	500, 000	9,00 0,00 0	9,50 0,00 0			-				500,0 00	9,000	-	9,50 0,00 0	Availa ble respon se equip ment and PPEs	Avail able resp onse equi pme nt and PPE s	Avail able resp onse equip ment and PPE s	PD RR MF und , LD RR MF und , PS F, ND RR MF und	
EREID	DRRMH Planning	DOH	921, 600		921, 600	1,10 5,92 0		1,105, 920	1,327, 104		1,327, 104	3,354 ,624	-	1	3,35 4,62 4	Approv ed and compl eted DRRM Plans for 48 C/MLG			5% LD RR MF	



															Us and Provin ce			
Training Donning and Doffing of PPEs	PHO	268, 800		268, 800	322, 560		322,56 0	387,07 2		387,0 72	978,4 32	-	-	978, 432	Traine d 48 C/MLG Us/ All Hospit als on Donnin g and Doffing of PPEs		5% LD RR MF	
Training on Infection Preventio n and Control Health Facilities		268, 000		268, 000	321, 600		321,60 0	385,92 0		385,9 20	975,5 20	-	-	975, 520	48 C/MLG Us/ All Hospit als obtain ed knowle dge and skills on infectio n preven tion and control		5% LD RR MF	
Training on Philippine Integrated Disease Surveillan ce and Response & Eventbased Surveillan ce System		652, 800		652, 800	783, 360		783,36 0	940,03		940,0 32	2,376 ,192	-	-	2,37 6,19 2	48 C/MLG Us obtain ed knowle dge on event- Based Surveil lance Syste m		5% LD RR MF	



Training on Clinical Pathway Guideline s on Infectious Diseases	РНО	268, 000		268, 000	321, 600		321,60	385,92		385,9	975,5 20	-	-	975, 520	48 C/MLG Us obtain ed knowle dge on Clinica I Pathw ay Guideli nes on Infecti ous Diseas es		5% LD RR MF
Training on Field Epidemiol ogy Training Program/ Basic Epidemiol ogy	PHO	652, 800		652, 800	783, 360		783,36 0	940,03		940,0 32	2,376 ,192	-	-	2,37 6,19 2	2 Person nel (1 per HCPN)		5% LD RR MF
Procurem ent of PPEs or prepositio ning of PPEs	PHO	1,00 0,00 0		1,00 0,00 0	1,20 0,00 0		1,200, 000	1,440, 000		1,440, 000	3,640 ,000	-	-	3,64 0,00 0	To be determ ined		5% LD RR MF
Protocol on the allocation of Isolation beds during EREID Outbreak s	PHO	76,8 00		76,8 00	92,1 60		92,160	110,59		110,5 92	279,5 52	-	-	279, 552	Constructed an OpCen space to monito r and respon d EREID cases		5% LD RR MF



Establish 24/7 Operation Center (Infrastruc ture)	РНО		1,00 0,00 0	1,00 0,00 0			-			-	-	1,000		1,00 0,00 0	Constructed an OpCen space to monito r and respon d EREID cases		5% LD RR MF
Hiring of 24/7 OpCen Personnel	PHO	1,00 0,00 0		1,00 0,00 0	1,20 0,00 0		1,200, 000	1,440, 000		1,440, 000	3,640 ,000			3,64 0,00 0	repres entativ es from LGUs with acquir ed knowle dge and skills on BLS		5% LD RR MF
Procurem ent of IT/ Communi cation Equipmen t	PHO	1,28 0,00 0		1,28 0,00 0	1,53 6,00 0		1,536, 000	1,843, 200		1,843, 200	4,659 ,200	-	-	4,65 9,20 0	48 C/MLG Us		5% LD RR MF
BLS Training of Trainers	PHO	84,0 00		84,0 00	100, 800		100,80	120,96 0		120,9 60	305,7 60	-		305, 760	1 per LGU? repres entativ es from LGUs with acquir ed knowle dge	1 per LGU ? repre sent ative s from LGU s with acqu	5% LD RR MF



															and skills on BLS	ired know ledg e and skills on BLS		
	BLS Training	PHO	268, 000		268, 000	321, 600		321,60 0	385,92 0		385,9 20	975,5 20	-	975, 520	1 per LGU _repr esenta tives from LGUs with acquir ed knowle dge and skills on SFA	1 per LGUre pres entat ives from LGU s with acqu ired know ledg e and skills on SFA	5% LD RR MF	
	SFA Training of Trainers	PHO	144,		144, 000	172, 800		172,80 0	207,36 0		207,3 60	524,1 60	-	524, 160	48 C/MLG Us LGU s_with acquir ed knowle dge and skills on BLS		5% LD RR MF	



SFA Training	PHO	460, 000		460, 000	552, 000		552,00 0	662,40 0		662,4 00	1,674 ,400	-	-	1,67 4,40 0	1 per LGU _repr esenta tives from LGUs with acquir ed knowle dge and skills on SFA	1 per LGUre pres entat ives from LGU s with acqu ired know ledg e and skills on SFA	5% LD RR MF	
Training on Health Emergen cy Response Operation	PHO	352, 000		352, 000	422, 400		422,40 0	506,88 0		506,8 80	1,281 ,280	-	-	1,28 1,28 0	48 C/MLG Usrepr esenta tives from LGUs Health Emerg ency with acquir ed knowle dge and skills on Respo nse Operat ion		5% LD RR MF	



Mass Casualty Managem ent Training of Trainers	РНО	264, 000		264, 000	316, 800		316,80	380,16		380,1 60	960,9 60	-	-	960, 960	30 par ticipant s with acquir ed knowle dge and skills on Mass Casual ty Manag ement		5% LD RR MF
Mass Casualty Managem ent Training	PHO	352, 000		352, 000	422, 400		422,40	506,88 0		506,8 80	1,281 ,280	-		1,28 1,28 0	24 C/MLG Us with a cquire d knowle dge and skills on Mass Casual ty Manag ement	24 C/M LGU s with acqu ired know ledg e and skills on Mas s Casu alty Man age ment	5% LD RR MF
Training on WASH in Emergen cies	PHO	192, 000		192, 000	230, 400		230,40	276,48 0		276,4 80	698,8 80	-	-	698, 880	24 C/MLG Us with acquir ed knowle dge and skills on WASH	24 C/M LGU s	5% LD RR MF



														in Emerg encies			
Training on MHPSS	PHO	144, 000	144, 000	172, 800		172,80	207,36		207,3	524,1 60	-	-	524, 160	24 C/MLG Us with acquir ed knowle dge and skills on MHPS S	24 C/M LGU s with acqu ired know ledg e and skills on MHP SS	l F	5% LD RR MF
Training on Nutrition in Emergen cies	PHO	352, 000	352, 000	422, 400		422,40 0	506,88 0		506,8 80	1,281 ,280	-	-	1,28 1,28 0	24 C/MLG Us with acquir ed knowle dge and skills on Nutritio n in Emerg encies	24 C/M LGU s with acqu ired know ledg e and skills on Nutri tion in Eme rgen cies	l F	5% LD RRR MF



	Training	PHO		1												24	24	5%	
	on	7.1.0	32,0		32,0	38,4		38,400	46,080		46,08	116,4	-	-	116,	C/MLG	C/M	LD	
	Surveillan		00		00	00		,	,		0	80			480	Us	LGU	RR	
	ce on															with	S	MF	
	Post															acquir	with		
	Extreme															ed	acqu		
	Emergen															knowle	ired		
	cies and															dge	know		
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	Training	PHO														24	24	5%	
	onMinimu		192,		192,	230,		230,40	276,48		276,4	698,8	-	-	698,	C/MLG	C/M	LD	
	m Initial		000		000	400		0	0		80	80			880	Us	LGU	RR	
	Service															with .	s	MF	
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	Training on Sub- PHEMAP	РНО	352, 000		352, 000	422, 400		422,40 0	506,88 0		506,8 80	1,281 ,280	-	-	1,28 1,28 0	24 C/MLG Us with acquir ed knowle dge and skills on Sub- PHEM AP	24 C/M LGU s with acqu ired know ledg e and skills on Sub- PHE MAP	5% LD RR MF	
	Training on Health and Hygiene promotion	PHO			-							-	-	-	-	C/MLG Us with acquir ed knowle dge and skills on Health and Hygien e promot ion			
	PDANA Orientatio n	PHO	38,4 00		38,4 00	46,0 80		46,080	55,296		55,29 6	139,7 76	-	-	139, 776	C/MLG Us and Provin ce with obtain ed knowle dge on PDNA for health		5% LD RR MF	



 T _	r																		
Procurem ent of mobile water purifier	PHO			-			-					-	-	-	mobile water purifier availab le and access ible to Provin ce and C/MLG Us			5% LD RR MF	
Back-up power supply for all RHUs (Cold Chain)	РНО						-			-		-	-		of all RHUs with Back- up power supply that is in good conditi on			5% LD RR MF	
Prepositio ning of Health Emergen cy Supplies/ Logisitics to LGUs	PHO	5,00 0,00 0		5,00 0,00 0	6,00 0,00 0		6,000, 000	7,200, 000		7,200,	18,20 0,000	-		18,2 00,0 00	48 C/MLG Us with availab le and access ible health Emerg ency Suppli es/Log istics as necess ary	48 C/M LGU s with avail able and acce ssibl e healt h Eme rgen cy Supp lies/L ogisti cs as nece ssar	48 C/ML GUs with avail able and acce ssibl e healt h Emer genc y Supp lies/L ogisti cs as nece ssary	5% LD RR MF	



															у	
Family First Aid Kit	PHO	2,80 0,00 0		2,80 0,00 0	3,36 0,00 0		3,360, 000	4,032, 000		4,032, 000	10,19 2,000	-	-	10,1 92,0 00		5% LD RR MF
First Aid Kits	PHO	61,0 00		61,0 00	73,2 00		73,200	87,840		87,84 0	222,0 40	-	-	222, 040		5% LD RR MF
Trauma Kit	PHO	190, 000		190, 000	228, 000		228,00 0	273,60 0		273,6 00	691,6 00	-	-	691, 600		5% LD RR MF
Hygiene Kit	PHO	5,04 0,00 0		5,04 0,00 0	6,04 8,00 0		6,048, 000	7,257, 600		7,257, 600	18,34 5,600	-	-	18,3 45,6 00		5% LD RR MF
CAMPOL AS Plus Kit	PHO	419, 972		419, 972	503, 966		503,96 6	604,76 0		604,7 60	1,528 ,698	-	-	1,52 8,69 8		5% LD RR MF
Jerry Can	PHO	2,40 0,00 0		2,40 0,00 0	2,88 0,00 0		2,880, 000	3,456, 000		3,456, 000	8,736 ,000	-	-	8,73 6,00 0		5% LD RR MF
Trichlose ne Sodium (Aquatab s)	PHO	1,68 0,00 0		1,68 0,00 0	2,01 6,00 0		2,016, 000	2,419, 200		2,419, 200	6,115 ,200	-	-	6,11 5,20 0		5% LD RR MF



DRRM Fund Investment Plan - Province of Bohol

Early Recovery and Response

GROU	Funct	PPA	Implementing	Period	of Impl	ementa	ation													Expect	ed Outpu	t	Fundin	Remarks
Р	ional Class	Code and	Office	Year 1	(2023)			Year 2	(2024)			Year 3	3 (2025)			Total	for 2023-	-2025					g Source	
	ificati on	Descri ption		Startin	g Date:	Janua	ry	Startin	g Date: .	Januar	у	Startii	ng Date:	Janua	ıry									
				Compl	etion ber		Date:	Compl	etion Da	te: Dec	ember	Comp	letion nber		Date:									
				MOO E	CO	Ot he rs	Tota I	MOO E	СО	Ot he rs	Tota I	MO OE	CO	Ot he rs	Tota I	MO OE	СО	Ot he rs	TOT AL	2023	2024	205		
All Hazar ds		Provisi on of emerge	OPSWD																	To imme diatel				
		ncy relief goods/s upplies to affecte d LGUs																		y respo nd to affect ed famili es				
		Procure ment of medical equipm ent/ supplie s for barang ays to respon	PHO																	To provid e the neede d medic al equip ment and				



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es/						baran		
health						gays,		
emerge						and		
ncies/						vaccin		
outbrea						es,		
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te and contami nate disease outbrea k of hogs and other livestoc k		mic impac t and to preve nt furthe r conta minati on of infecti on	
Conduc t of Post Disaste r and Needs Analysi s (PDAN A) activitie s		To gather a compr ehens ive data on the extent of the dama ge of the calam ity for rehabi litatio n need	
Procure ment of fuel (diesel and unlead ed) for the continu ed operati on of the COVID-19 and		To imme diatel y provid e assist ance to the affect ed famili es thru this	



Typh n Odeti									logisti cal need		
respo	on										
meas es	bui										
Deploment Relie Team Emer ncy Medir Servi s, SAR/ RR Team psyct	of f ss, gge cal ce S ss, no								Imme diate medic al servic es to disast er victim s includi ng psych		
socia team	s								osoci al aid		
Provi	of PDRRMO, PHO PHO PHO PHO PHO PHO PHO PHO PHO PHO								To provid e suppo rt, progr am intervention s for those affect ed by calam ities or disast er		



Floodi ng, Typho on, Sever e Wind	Executi on of Memor andum of Underst anding with NGAs, NGOs, POs, private groups and other concer ned	PDRRMO	1,20 0,00 0	500, 000	1, 0, 0	00 (2,00 0,00 0	800,	2,80 0,00 0	2,20 0,00 0	1,00 0,00 0	3,20 0,00 0	5,40 0,00 0	2,30 0,00 0	0	7,70 0,00 0	Linka ging and Identif icatio n of possi ble partne rs: Prepa ration and submi ssion	Delive red nutriti ous relief food items to affect ed popul ation	Execu tion or signin g of MOU	
	Provisi on of food and	OPSWD, OPA, OPV	3,00 0,00 0	800, 000	3,0,0 0,0	(4,00 0,00 0	1,00 0,00 0	5,00 0,00 0	5,00 0,00 0	1,00 0,00 0	6,00 0,00 0	12,0 00,0 00	2,80 0,00 0	0	14,8 00,0 00	ssion of propo sals and reque sts - Execution or signin g of MOU - Monit oring and follow up partne rs Identification and data			
	non- food items to affecte							Ĭ		J	•						gather ing of possi ble			



		d fisherfol k and farmers in coordin ation with NGA's, NGO;s, Private Sector and other stake holders															benefi ciarie s				
Earth quake , groun dshak ing, liquef action	Supp ort to the reduc tion of popul ation at risk to Grou nd Shaki ng, Earth quake - Induc ed Lands lide, Liquef action	Support to MLGU Emerge ncy Respon se (Evacu ation, Search & Rescue, Relief Operations)	PDRRMO			0			0			0	0	0	0	0	as neede d	as neede d	as neede d		Budgeted by PDRRMO
Storm Surge, Tsuna mi)		Provisi on of food and non- food items	OPSWD/DSW D/MLGUs	1,00 0,00 0		1,00 0,00 0	1,00 0,00 0		1,00 0,00 0	1,00 0,00 0		1,00 0,00 0	3,00 0,00 0	0	0	3,00 0,00 0	Provid ed food and NFIs to affect ed comm	Provid ed food and NFIs to affect ed comm	Provid ed food and NFIs to affect ed comm	OPSW D-GF	DSWD- GAA, MLGU 5% of the MDRRMF



													unitie s	unitie s	unitie s		
Manag ement of evacuat ion centers	OPSWD/DSW D/MLGUs		0		0			0	0	0	0	0	Camp mana geme nt stand ards imple mente d	Camp mana geme nt stand ards imple mente d	Camp mana geme nt stand ards imple mente d		
Conduc t of Stress debriefi ng	OPSWD/DSW D/PHO/PDRR MO/MLGU	500, 000. 00	500, 000	500, 000. 00	50		0.	500, 000	1,50 0,00 0	0	0	1,50 0,00 0	10 coast al MLG Us condu	10 coast al MLG Us condu	10 coast al MLG Us condu	OPSW D-GF	
Conduc t PDNA	PDRRMO/OC D/MLGU		0		0			0	0	0	0	0	Cond ucted PDNA to 10 coast al MLG Us	Cond ucted PDNA to 10 coast al MLG Us	Cond ucted PDNA to 10 coast al MLG Us		OCD- GAA
Deploy ment of respon se teams and rescue equipm ent	PDRRMO	2,00 0,00 0	2,00 0,00 0	2,00 0,00 0		00 2,0 00 0,0 0		2,00	6,00 0,00 0	0	0	6,00 0,00 0	Deplo yment of (1) WAS AR Team to condu ct searc h, rescu e, and retriev al	Deplo yment of (1) WAS AR Team to condu ct searc h, rescu e, and retriev al	Deplo yment of (1) WAS AR Team to condu ct searc h, rescu e, and retriev al	5% of the PDRR MF	5% of the MDRRF
Provisi on of Emerge ncy Medical	PHO/DOH	2,00 0,00 0	2,00 0,00 0	2,20 0,00 0		20 2, ² 00 0,0 0		2,40 0,00 0	6,60 0,00 0	0	0	6,60 0,00 0	Provid ed Emer gency Medic	Provid ed Emer gency Medic	Provid ed Emer gency Medic	PHO- GF	DOH- GAA



Service Serv																			
Procure Proc																			
Produce BPEMO/PEO/ 15.0 15.0 10.0 10.0 10.0 5.00 0.00															es to	es to	es to		
Produce Prod																			
Procure Proc																			
ment of OCDISFP/PN mobile water mobile water treatment and alternat live power supply Deptoy PMPO/PEO/D 1.00 1,00 1,00 1,00 1,00 1,00 1,00 0,00															S	s	S		
Moderate water treatment water treatment water treatment in the property of the power supply PMPO/PEOID 1,00											0		0	30,0 00.0					
Treatme nt and alternat ive power supply	mobile														of (1)	of (1)	of (1)	PDRR	NILA/MA
A conting ency plan Provisi on of fibergla ss reinforce ed bancas to carter and supply Providicate and conting ency plan Provisi on of fibergla ss reinforce ed bancas to carter and carter an																		MF	
Deploy ment of clearing teams PDRRMO/OC Deploy plan PMPO/PEC/D 1,00																			
Deploy PMPO/PEO/ID 1,00 1,00 1,00 1,00 1,00 1,00 1,00 0,00																			CA
Deploy PMPO/PEO/ID 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 0,00																			
ment of clearing teams ment of clearing te															t	t	t		
Clearing teams												0	0						
Implement ent conting ency plan PPRRMO/OC Provisi on of fibergla ss reinforced a bancas to affecte do fisherfol sk s S	clearing														roads	roads	roads	o .	0, 1,
Implem ent conting ency plan ency plan Provisi on of fibergla ss reinforc ed ed motoriz ed affect ed fisherfol ks s S S S S S S S S S	teams																		
Provisi	lasala as	DDDDMO/OC					0			0	0	_	0	0	S	S	S		
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on of fibergla ss reinforc ed ed ed bancas bancas to affect affect affect affect affect affect affect affect affect fisherfol ks	Provisi	OPA/OPV/DS	2 00	2.0	2 00	-	2 00	2 00		2 00	6.00	0	0	6.00	-		-		RFAR-
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Provisi on of 16 footer fibergla ss reinforc ed non- motoriz ed bancas to affecte d fisherfol ks	OPA/OPV/DS WD/BFAR	2,00 0,00 0	2,00 0,00 0	2,00 0,00 0	2,00 0,00 0	2,00 0,00 0	2,00 0,00 0	6,00 0,00 0	0	0	6,00 0,00 0	Provid ed (1) 16 footer fibergl ass reinfor ced non-motori zed banca s to affect ed fisherf olks associ ation	Provid ed (1) 16 footer fibergl ass reinfor ced non-motori zed banca s to affect ed fisherf olks associ ation	Provid ed (1) 16 footer fibergl ass reinfor ced non-motori zed banca s to affect ed fisherf olks associ ation		BFAR- GAA
Provide alternat ive liveliho od/cash for work	OPSWD/BPE SO/DSWD	5,00 0,00 0	5,00 0,00 0	6,00 0,00 0.00	6,00 0,00 0	7,00 0,00 0	7,00 0,00 0	18,0 00,0 00	0	0	18,0 00,0 00	Provid ed altern ative livelih ood/c ash for work to affect ed coast al MLG Us	Provid ed altern ative livelih ood/c ash for work to affect ed coast al MLG Us	Provid ed altern ative livelih ood/c ash for work to affect ed coast al MLG Us	OPSW D- GF	DOLE/DS WD- GAA
Provisi on of planting materia Is (seedlin gs, seeds, drugs, and other livestoc	OPA/OPV/BF AR/BPEMO/D ENR	5,00 0,00 0	5,00 0,00 0	5,00 0,00 0	5,00 0,00 0	5,00 0,00 0	5,00 0,00 0	15,0 00,0 00	0	0	15,0 00,0 00	Provid ed planti ng materi als to affect ed coast al MLG Us	Provid ed planti ng materi als to affect ed coast al MLG Us	Provid ed planti ng materi als to affect ed coast al MLG Us	OPA/O PV- GF	BFAR/DE NR- GAA



	k dispers al)																			
	Conduc t MHPS S	OPSWD/PHO/ PDRRMO/DS WD	500, 000		500, 000	500, 000		500, 000	500, 000		500, 000	1,50 0,00 0	0	0	1,50 0,00 0	Cond ucted MHP SS to affect ed coast al MLG U	Cond ucted MHP SS to affect ed coast al MLG U	Cond ucted MHP SS to affect ed coast al MLG U	OPSW D- GF	DSWD/D OH- GAA
	Activat e emerge ncy commu nication hotline for foreign national s	BTO/DOT/EM BASSY			0			0			0	0	0	0	0	Establ ished of emerg ency comm unicat ion hotlin e for foreig n nation als	Establ ished of emerg ency comm unicat ion hotlin e for foreig n nation als	Establ ished of emerg ency comm unicat ion hotlin e for foreig n nation als		TELCOS
Sinkh ole	Deploy ment of SAR Teams & Search, Rescue & Retriev al operations	PDRRMO- TaRSIER 117	100,		100, 000	100, 000		100, 000	100,		100, 000	300, 000	0	0	300, 000	100% of incide nts provid ed with SAR deplo yment teams	100% of incide nts provid ed with SAR deplo yment teams	100% of incide nts provid ed with SAR deplo yment teams	Prov'l DRRM F	
	Deploy ment of Relief Teams For Relief	OPSWD, PDRRMO	500, 000		500, 000	500, 000		500, 000	500, 000		500, 000	1,50 0,00 0	0	0	1,50 0,00 0	100% of incide nts provid ed	100% of incide nts provid ed	100% of incide nts provid ed	Prov'l DRRM F	



	goods distribut ion															with relief teams for relief goods distrib	with relief teams for relief goods distrib	with relief teams for relief goods distrib		
	Activati on of ICS and Evacua tion System	OPSWD, PDRRMO	300, 000		300, 000	300, 000		300, 000	300, 000		300, 000	900,	0	0	900,	ution 100% of incide nts provid ed with ICS and evacu ation syste m	ution 100% of incide nts provid ed with ICS and evacu ation syste m	ution 100% of incide nts provid ed with ICS and evacu ation syste m	Prov'l DRRM F	
EIL	Deploy ment of SAR Teams & Search, Rescue & Retriev al operations	PDRRMO- TaRSIER 117	100,		100, 000	100, 000		100, 000	100, 000		100,	300, 000	0	0	300, 000	100% of incide nts provid ed with SAR deplo yment teams	100% of incide nts provid ed with SAR deplo yment teams	100% of incide nts provid ed with SAR deplo yment teams	Prov'l DRRM F	
	Deploy ment of Relief Teams For Relief goods distribut ion	OPSWD, PDRRMO	500, 000		500, 000	500, 000		500, 000	500, 000		500, 000	1,50 0,00 0	0	0	1,50 0,00 0	of incide nts provid ed with relief teams for relief goods distrib ution	of incide nts provid ed with relief teams for relief goods distrib ution	of incide nts provid ed with relief teams for relief goods distrib ution	Prov'l DRRM F	



	Active on ICS and Evac tion Syste	of I	OPSWD, PDRRMO	300, 000		300, 000	300, 000		300, 000	300, 000		300, 000	900, 000	0	0	900, 000	of incide nts provid ed with ICS and evacu ation syste m	of incide nts provid ed with ICS and evacu ation syste m	of incide nts provid ed with ICS and evacu ation syste m	Prov'l DRRM F	
Droug ht	Provi on water truck for water suppl ration g	of of of of of of of of of of of of of o	PDRRMO, GSO		18,0 00,0 00	18,0 00,0 00		18,0 00,0 00	18,0 00,0 00		24,0 00,0 00	24,0 00,0 00	0	60,0 00,0 00	0	60,0 00,0 00	Corell a, Corte s, Balilih an, Loboc , Dana o, Getaf e, Ubay, Buen avista , San Migue I, Dago hoy- provid ed	Corell a, Corte s, Balilih an, Loboc , Dana o, Getaf e, Ubay, Buen avista , San Migue I, Dago hoy- provid ed	Corell a, Corte s, Balilih an, Loboc , Dana o, Getaf e, Ubay, Buen avista , San Migue I, Dago hoy- provid ed	BFP,LD RRMFu nd, PDRR MFund, NDRR MFund, NEDA	
	Provi on fo and non- food items all affect d LGU'	s to	PDRRMO, OPA		50,0 00,0 00	50,0 00,0 00		60,0 00,0 00	60,0 00,0 00		70,0 00,0 00	70,0 00,0 00	0	180, 000, 000	0	180, 000, 000	All Agricu Itural Town s (45 Munic ipalitie s)- provid ed	All Agricu Itural Town s (45 Munic ipalitie s)- provid ed	All Agricu Itural Town s (45 Munic ipalitie s)- provid ed	LDRR MFund, PDRR MFund, DWSD, NGO's	



	Provisi on of alternat ive liveliho od	PDRRMO, OPA		5,00 0,00 0	5,00 0,00 0		10,0 00,0 00	10,0 00,0 00		15,0 00,0 00	15,0 00,0 00	0	30,0 00,0 00	0	30,0 00,0 00	All Agricu Itural Town s (45 Munic ipalitie s)- educa ted	All Agricu Itural Town s (45 Munic ipalitie s)- educa ted	All Agricu Itural Town s (45 Munic ipalitie s)- educa ted	DENR, MAO, DOLE, DTI	
RIL	Provisi on of Food and non- food items			20,0 00,0 00	20,0 00,0 00		30,0 00,0 00	30,0 00,0 00		40,0 00,0 00	40,0 00,0 00	0	90,0 00,0 00	0	90,0 00,0 00	48 LGU's	48 LGU's	48 LGU's	DSWD, NGO's	
	Provisi on of altemat ive liveliho od			10,0 00,0 00	10,0 00,0 00		15,0 00,0 00	15,0 00,0 00		20,0 00,0 00	20,0 00,0 00	0	45,0 00,0 00	0	45,0 00,0 00	48 LGU's	48 LGU's	48 LGU's	DSWD, DTI, DOLE	
HEAL TH SECT OR	Operati onal provinci al isolatio n center		1,00 0,00 0		1,00 0,00 0	1,20 0,00 0		1,20 0,00 0	1,44 0,00 0		1,44 0,00 0	3,64 0,00 0	0	0	3,64 0,00 0	equip ed with logisti cs	equip ed with logisti cs	equip ed with logisti cs	5% LDRR MF	
	Activati on of hospital protoco I on EREID Outbre ak		1,00 0,00 0		1,00 0,00 0	1,20 0,00 0		1,20 0,00 0	1,44 0,00 0		1,44 0,00 0	3,64 0,00 0	0	0	3,64 0,00 0	equip ed and functi onal	equip ed and functi onal	equip ed and functi onal	5% LDRR MF	
	Deploy ment of MHPS S, WASH, Medical & NiE Teams/ Conduc		280, 000		280, 000	336, 000		336, 000	403, 200		403, 200	1,01 9,20 0	0	0	1,01 9,20 0	MHP SS, WAS H, Medic al & NiE Team s	MHP SS, WAS H, Medic al & NiE Team s	MHP SS, WAS H, Medic al & NiE Team s	5% LDRR MF	



t of Hygien e Promoti on Activitie s														provid ed imme diate assist ance to affect ed popul ation, as neede d	provid ed imme diate assist ance to affect ed popul ation, as neede d	provid ed imme diate assist ance to affect ed popul ation, as neede d		
Deploy ment of Mobile Water Purifier	PHO/DOH	1,00 0,00 0	1,00 0,00 0	1,20 0,00 0		1,20 0,00 0	1,44 0,00 0		1,44 0,00 0	3,64 0,00 0	0	0	3,64 0,00 0	Hygie ne activiti es are adopt ed in all evacu ation center s as neces sary	Hygie ne activiti es are adopt ed in all evacu ation center s as neces sary	Hygie ne activiti es are adopt ed in all evacu ation center s as neces sary	5% LDRR MF	
Provisi on (Augme ntation) of Health Emerge ncy Supplie s	PHO/DOH	1,00 0,00 0	1,00 0,00 0	1,20 0,00 0		1,20 0,00 0	1,44 0,00 0		1,44 0,00 0	3,64 0,00 0	0	0	3,64 0,00 0	Mobil e purifie r availa ble and acces sible to affect ed popul ation, as neede d	Mobil e purifie r availa ble and acces sible to affect ed popul ation, as neede d	Mobil e purifie r availa ble and acces sible to affect ed popul ation, as neede d	5% LDRR MF	



	Op	erati	PHO/DOH	1,00	1,00	1,20		1,20	1,44		1,44	3,64	0	0	3,64	Healt	Healt	Healt	5%	
	ona	al		0,00	0,00	0,00		0,00	0,00		0,00	0,00			0,00	h	h	h	LDRR	
	Em	nerge		0	0	0		o [°]	0		0	0			0	emerg	emerg	emerg	MF	
	ncy			-												ency	ency	ency		
	On	erati														suppli	suppli	suppli		
	on															es are	es are	es are		
		nter														availa	availa	availa		
	and															ble to	ble to	ble to		
	On															C/ML	C/ML	C/ML		
		spita														GUs	GUs	GUs		
		Spita														to	to	to		
	Col	mma														augm	augm	augm		
	nd															ent	ent	ent		
		nter														suppl	suppl			
	Cei	iilei																suppl		
																y gap, ss	y gap, ss	y gap, ss		
																neede	neede	neede		
																d	d	d		
	Λ	ama	P/C/MLGU	1,00	1,00	1,20		1,20	1,44		1,44	3,64	0	0	264	u	u	u	5%	
		gme	P/C/IVILGU			0.00							U	U	3,64				LDRR	
		ition		0,00 0	0,00	0,00		0,00 0	0,00		0,00	0,00 0			0,00 0				MF	
	of			U	U	U		U	U		0	U			U				IVIF	
	Sup	pport																		
	Sta	aff for																		
	EO																			
		nerge	PDRRMO	1,50	1,50		1,50	1,50			0	1,50	1,50	0	3,00	1			5%	
	ncy			0,00	0,00		0,00	0,00				0,00	0,00		0,00	functi			LDRR	
		3 tran		0.00	0		0.00	0				0	0		0	onal			MF	
	spo	ort														vehicll				
		hicle														е				
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DRRM Fund Investment Plan – Province of Bohol

Rehabilitation and Recovery

GR OU	Func tiona	PPA Code	Implementing Office	Period	of Imple	ementa	tion													Expecte	ed Output		Fundin	Remarks
P	1	and	Office	Year 1	(2023)			Year 2	(2024)			Year 3	(2025)			Total f	or 2023-	2025					g Source	
	Clas sifica	Descri ption		Startin	ng Date:	Januar	y	Startir	g Date: .	Januar	у	Startir	g Date:	Janua	ry	1								
	tion			Comp	letion Da	te: Dec	ember	Comp	etion Da	te: Dec	ember	Comp	etion		Date:									
				MOO E	СО	Ot he rs	Tota I	MOO E	СО	Ot he rs	Tota I	MO OE	CO	Ot he rs	Tota I	MO OE	CO	Ot he rs	TOT AL	2023	2024	2025		
All Haz ard s		Recons truction and rehabilit ation of damag ed infrastr uctures and facilities Provisio n of shelter assista nce to affected commu nities	PEO																	To provid e calami ties' affecte d individ uals a safe relocat ion Help affecte d familie s surpas s mental , physic al and econo mic proble ms				
		Conduc t of cash for work/fo od for	OPSWD, PPDO																	To provid e calami ties'				



	work activitie s/altern ative liveliho od for affected families															affecte d individ uals altern ative livelih ood/so urce of incom e			
Flo odi ng, Typ hoo n, Sev ere Win d	Provisio n of alternative liveliho od interven tion to expedite erecover		500, 000	500,0 00	1,00 0,00 0	500, 000	1,500 ,000	2,00 0,00 0	1,00 0,00 0	3,00 0,00 0	4,00 0,00 0	2,00 0,00 0	5,00 0,00 0	-	7,00 0,00 0	familie s with appro priate altern ative livelih ood	famili es with appro priate altern ative livelih ood	famili es with appro priate altern ative livelih ood	
	Provisio n of farm inputs to farmers and farmer associa tions		500, 000	500,0	1,00 0,00 0	500, 000	1,500	2,00 0,00 0	1,00 0,00 0	3,00 0,00 0	4,00 0,00 0	2,00 0,00 0	5,00 0,00 0	-	7,00 0,00 0	Delive red and distrib uted farm inputs to affecte d farmer s and farmer associ ation	Deliv ered and distrib uted farm inputs to affect ed farme rs and farme r assoc iation	Deliv ered and distrib uted farm inputs to affect ed farme rs and farme r assoc iation	
Sto rm Sur ge, Tsu na mi	Provisio n of shelter assista nce to affected commu nities	OPSWD/DSWD /NHA/INGOs/O P/OVP	20,0 00,0 00		20,0 00,0 00	20,0 00,0 00		20,0 00,0 00	20,0 00,0 00		20,0 00,0 00	60,0 00,0 00	-	-	60,0 00,0 00	numb er of shelter provid es to affecte d	numb er of shelte r provid es to affect	numb er of shelte r provid es to affect	DSWD/N HA- GAA, INGOs, OP, OVP



															LGUs	ed LGUs	ed LGUs		
Provision nof liveliho od assistance and start up kits to affected people's organization	OPSWD/DSWD /DOLE/INGOs/ DOST	100, 000, 000		100, 000, 000	100, 000, 000		100, 000, 000	100, 000, 000		100, 000, 000	300, 000, 000	-	-	300, 000, 000	Affect ed familie s availe d livelih ood start-up kits	Affect ed famili es availe d livelih ood start-up kits	Affect ed famili es availe d livelih ood start-up kits	OPSW D- GF	DSWD/D OLE/DO ST- GAA, INGOs
Provide d liveliho od skills enhanc ement				-			1			1	-	-	-	-	Individ uals with additional livelih ood skills to generate income	Indivi duals with additi onal livelih ood skills to gener ate incom e	Indivi duals with additi onal livelih ood skills to gener ate incom e		
Relocat ion of critical facilities	PEO/DPWH/TE LCOS/OCD	20,0 00,0 00		20,0 00,0 00	20,0 00,0 00		20,0 00,0 00	20,0 00,0 00		20,0 00,0 00	60,0 00,0 00	-	-	60,0 00,0 00	Critica I faciliti es relocat ed	Critic al faciliti es reloca ted	Critic al faciliti es reloca ted	PEO- GF	DPWH/O CD- GAA, TELCOS
Assess ment of structur al integrity as basis for the recom mendati on for rehab/r	PEO/DPWH	500, 000		500, 000	500, 000		500, 000	500, 000		500, 000	1,50 0,00 0	-	-	1,50 0,00 0	Acco mplish ed asses sment report of dama ges faciliti es and lifeline	Acco mplis hed asses sment report of dama ges faciliti es and	Acco mplis hed asses sment report of dama ges faciliti es and	PEO- GF	DPWH- GAA



etrofittin g of damag ed facilities															s to be recom mend ed for rehabil itation or retrofit ted	lifelin es to be reco mme nded for rehab ilitatio n or retrofi tted	lifelin es to be reco mme nded for rehab ilitatio n or retrofi tted		
Provision of fibergla ss reinforced motorized bancas to affected fisherfolks	OPA/OPV/DSW D/BFAR	2,00 0,00 0		2,00 0,00 0	2,00 0,00 0		2,00 0,00 0	2,00 0,00 0		2,00 0,00 0	6,00 0,00 0	-	-	6,00 0,00 0	Affect ed fisherf olks provid ed with 6-footer fibergl ass reinfor ced non-motori zed banca s to affecte d fisherf olks associ ation	Affect ed fisherf olks provid ed with 6-footer fibergl ass reinfo rced non-motor ized banca s to affect ed fisherf olks assoc iation	Affect ed fisherf olks provid ed with 6-footer fibergl ass reinfo rced non-motor ized banca s to affect ed fisherf olks association		BFAR- GAA
Provisio n of 16 footer fibergla ss reinforc ed non- motoriz ed bancas to	OPSWD/BPES O/DSWD			-			-			1	-	-	-	-	numb er of familie s with additio nal incom e throug h altern	numb er of famili es with additi onal incom e throu gh	numb er of famili es with additi onal incom e throu gh	OPSW D- GF	DOLE/DS WD- GAA



 1 " · ·	T		1			, ,		1	1	-		1	1	1	1				ı	ı
affected fisherfol ks																ative livelih ood/ca sh or food for	altern ative livelih ood/c ash or food	altern ative livelih ood/c ash or food		
Rehabil	PEO/DPWH/OC	500,			500,			500,								work	for work	for work	PEO/O	DPWH/O
itation of damag ed sites/ areas	D/NM/OPA/OP V/DENR/	000		500, 000	000		500,	000			500, 000	1,50 0,00 0	-	-	1,50 0,00 0	ged sites/ areas rehabil itated in affecte d coasta I areas	ged sites/ areas rehab ilitate d in affect ed coast al areas	ged sites/ areas rehab ilitate d in affect ed coast al areas	PV/OP A- GF	CD/NM/D ENR- GAA
Mangro ve planting and dispers al of mangro ve mud crabs (Establi shment of mangro ve nurseri es,	BPEMO/DENR/ BFAR/OPA	2,00 0,00 0		2,00 0,00 0	2,00 0,00 0		2,00 0,00 0	2,00 0,00 0			2,00 0,00 0	6,00 0,00 0	-	-	6,00 0,00 0	Provid ed mangr ove plantin g materi als and mud crabs to affecte d coasta l areas	Provided mang rove planting materials and mud crabs to affect ed coast al areas	Provided mang rove planting materials and mud crabs to affect ed coast al areas	BPEM O- GF	DENR/BF AR- GAA
Coral planting and sea ranchin g	BPEMO/DENR/ BFAR/OPA	2,00 0,00 0		2,00 0,00 0	2,00 0,00 0		2,00 0,00 0	2,00 0,00 0			2,00 0,00 0	6,00 0,00 0	-	-	6,00 0,00 0	Rehab ilitated dama ged coral eco- syste ms	Reha bilitat ed dama ged coral eco- syste ms	Reha bilitat ed dama ged coral eco- syste ms	BPEM O/OPA - GF	DENR/BF AR- GAA



	Create new Marketi ng and commu nication plan for recover y	BPTO/DOT/NM	5,00 0,00 0	5,00 0,00 0	500, 000	500	0, 0	500,		500, 000	6,00 0,00 0	-	-	6,00 0,00 0	Marke ting and comm unicati on plan imple mente d	Mark eting and comm unicat ion plan imple ment ed	Mark eting and comm unicat ion plan imple ment ed		DOT/NM- GAA
Sin kho le	Conduc t of post- disaster damag e assess ment	PDRRMO, PDANA members	300, 000	300, 000	300,	300	000	000, 1000		300, 000	900, 000	-		900, 000	of incide nts provid ed with post-disast er dama ge asses sment	of incide nts provid ed with post-disast er dama ge asses sment	of incide nts provid ed with post-disast er dama ge asses sment	Prov'I DRRM F	
	Cash for work activitie s (emerg ency assista nce to disaster survivor s)	OPSWD	500,	500, 000	500,	500	0, 0	600, 100		500, 000	1,50 0,00 0	-	-	1,50 0,00 0	of incide nts provid ed with Cash for work activiti es (emer gency assist ance to disast er surviv ors)	of incide nts provid ed with Cash for work activit ies (emer gency assist ance to disast er surviv ors)	of incide nts provid ed with Cash for work activit ies (emer gency assist ance to disast er surviv ors)	OPSW D	



Identific ation of relocati on sites	PDRRMO, PEO, PPDO	100, 000		100, 000	100, 000		100, 000	100, 000		100, 000	300, 000	1	-	300, 000	of neede d relocat ion sites have been identified	of need ed reloca tion sites have been identified	of need ed reloca tion sites have been identified	Prov'l DRRM F	
Support to LGUs in the acquisit ion of relocati on sites	PPDO, PDRRMO, OPSWD, PEO		3,000	3,00 0,00 0		3,000	3,00 0,00 0		3,00 0,00 0	3,00 0,00 0	-	9,00 0,00 0	-	9,00 0,00 0	10% of the total amou nt given to the select ed LGU	of the total amou nt given to the select ed LGU	of the total amou nt given to the select ed LGU	Prov'l DRRM F	
Conduc t of post- disaster damag e assess ment	PDRRMO, PDANA members	300, 000		300, 000	300, 000		300, 000	300, 000		300, 000	900,	-	-	900,	of incide nts provid ed with post-disast er dama ge asses sment	of incide nts provid ed with post-disast er dama ge asses sment	of incide nts provid ed with post-disast er dama ge asses sment	Prov'I DRRM F	
Cash for work activitie s (emerg ency assista nce to disaster survivor s)	OPSWD	500, 000		500, 000	500, 000		500, 000	500, 000		500, 000	1,50 0,00 0	-	-	1,50 0,00 0	of incide nts provid ed with Cash for work activiti es	of incide nts provid ed with Cash for work activit ies	of incide nts provid ed with Cash for work activit ies	OPSW D	



																(emer gency assist ance to disast er surviv ors)	(emer gency assist ance to disast er surviv ors)	(emer gency assist ance to disast er surviv ors)		
	Identific ation of relocati on sites	PDRRMO, PEO, PPDO	100,		100,	100,		100, 000	100,		100, 000	300, 000	-	-	300, 000	100% of neede d relocat ion sites have been identified	100% of need ed reloca tion sites have been identified	100% of need ed reloca tion sites have been identified	Prov'l DRRM F	
	Support to LGUs in the acquisit ion of relocati on sites	PPDO, PDRRMO, OPSWD, PEO		3,000	 3,00 0,00 0		3,000	3,00 0,00 0		3,00 0,00 0	3,00 0,00 0	-	9,00 0,00 0	-	9,00 0,00 0	10% of the total amou nt given to the select ed LGU	10% of the total amou nt given to the select ed LGU	10% of the total amou nt given to the select ed LGU	Prov'l DRRM F	
	Rehabil itation of damag e water sources	PDRRMO, PEO, PPDO		15,00 0,000	 15,0 00,0 00		20,00 0,000	20,0 00,0 00		25,0 00,0 00	25,0 00,0 00	-	60,0 00,0 00	-	60,0 00,0 00	All dama ge water source s are rehabil itated	All dama ge water sourc es are rehab ilitate d	All dama ge water sourc es are rehab ilitate d	MEO, MPDO, NEDA, JICA NDRR MFund, PSF	
	Provisio n farm inputs to affected farmers	PDRRMO, OPA		10,00 0,000	10,0 00,0 00		15,00 0,000	15,0 00,0 00		20,0 00,0 00	20,0 00,0 00	-	45,0 00,0 00	-	45,0 00,0 00	All affecte d farmer s in LGU's	All affect ed farme rs in LGU' s	All affect ed farme rs in LGU' s	MEO, MPDO, NEDA, JICA NDRR MFund, PSF, NEDA	



		_															•				
	Provision not alternative liveliho ods			20,00 0,000	0	20,0 00,0 00		25,00 0,000	25,0 00,0 00		30,0 00,0 00	30,0 00,0 00	-	75,0 00,0 00	-	75,0 00,0 00	All affecte d farmer s in LGU's	All affect ed farme rs in LGU' s	All affect ed farme rs in LGU' s	MEO, MPDO, NEDA, JICA NDRR MFund, PSF, NEDA	
	Cash /Food for work progra m	PDRRMO, DOLE, OPSWD		25,00 0,000	0	25,0 00,0 00		30,00 0,000	30,0 00,0 00		35,0 00,0 00	35,0 00,0 00	-	90,0 00,0 00	-	90,0 00,0 00	All affecte d farmer s in LGU's	All affect ed farme rs in LGU' s	All affect ed farme rs in LGU' s	DSWD, DOLE,	
RIL	Rehabil itation of damag ed infratru ctures per municip alities			50,00 0,000 .00	0	50,0 00,0 00		60,00 0,000 .00	60,0 00,0 00		70,0 00,0 00	70,0 00,0 00	-	180, 000, 000	-	180, 000, 000	48 LGU's	48 LGU' s	48 LGU' s	DPWH, NEDA, NDRR MFund, PSF, JICA	
	Re- settlem ent of affected families per LGU			70,00 0,000 .00	0	70,0 00,0 00		80,00 0,000 .00	80,0 00,0 00		90,0 00,0 00	90,0 00,0 00	-	240, 000, 000	-	240, 000, 000	48 LGU's	48 LGU' s	48 LGU' s	DPWH, NEDA, NDRR MFund, PSF,N HA	
	Post incident Evaluation (PIE) and docume ntation of best practice s, lessons , proble ms		48,0 00.0 0			48,0 00	57,6 00.0 0		57,6 00	69,1 20		69,1 20	174, 720	-	-	174, 720				5% LDRR MF	



encount ered, challen ges and recom mendati ons Review and Updatin g of DRRM	P/C/MLGU	216, 000. 00	216, 000	259, 200. 00		259, 200	311, 040		311, 040	786, 240	-	-	786, 240	1 plan revise d and updat ed	1 plan tested	1 plan tested	5% LDRR MF	
H Plan Stress debriefi ng of the respon ders/ Care for	P/C/MLGU	80,0 00.0 0	80,0	96,0 00.0 0		96,0 00	115, 200		115, 200	291, 200	-	-	291, 200	24 carers debrie fed	24 carer s debri efed	24 carer s debri efed	5% LDRR MF	
Carers Psycho social interven tions for the victims	P/C/MLGU	500, 000. 00	500, 000	600, 000. 00		600, 000	720, 000		720, 000	1,82 0,00 0	-	-	1,82 0,00 0				5% LDRR MF	
Continu os monitori ng of health conditio ns of the affected populati on (ex. Surveill ance)	P/C/MLGU	500, 000. 00	500, 000	600, 000. 00		600, 000	720, 000		720, 000	1,82 0,00 0	-	-	1,82 0,00 0	48 LGUs monito red	48 LGUs monit ored	48 LGUs monit ored	5% LDRR MF	
Repair of damag ed facilities and	P/C/MLGU/DP WH	5,00 0,00 0.00	5,00 0,00 0	6,00 0,00 0.00		6,00 0,00 0	7,20 0,00 0		7,20 0,00 0	18,2 00,0 00	-	-	18,2 00,0 00				5% LDRR MF	



	lifelines																			
	Repleni shment of utilized resourc es	P/C/MLGU	1,00 0,00 0.00		1,00 0,00 0	1,20 0,00 0.00		1,20 0,00 0	1,44 0,00 0		1,44 0,00 0	3,64 0,00 0	-	-	3,64 0,00 0				5% LDRR MF	
	Recogn ition of respon ders	P/C/MLGU	500, 000. 00		500, 000	600, 000. 00		600, 000	720, 000		720, 000	1,82 0,00 0	-	-	1,82 0,00 0	1 PIR	1 PIR	1 PIR	5% LDRR MF	



Annex 6: Results Based M & E

			,	ion of the		200	JU IVI OC L					
Hazard	Targets	PPA's	Baseline	PPA Outputs	Indicat or	Means of Verific ation	In-Charge of Monitoring/Data Gathering	Method of Gathering	Frequ ency	M&E Data Users	Resources Needed	Source of Funds
Drought	Corella, Cortes, Balilihan, Loboc, Danao, Getafe, Ubay, Buenavista, San Miguel, Dagohoy	Rehabilitation of damage water sources								PPDO, PDRM O	logistiacl supplies, Honorarium	PDRRMFund- Rehabilitation and Recovery Program
	All Agricultural Towns (45 Municipalities)	Provision farm inputs to affected farmers								PPDO, PDRM O	logistiacl supplies, Honorarium	PDRRMFund- Rehabilitation and Recovery Program
		Provision of livelihoods								PPDO, PDRM O	logistiacl supplies, Honorarium	PDRRMFund- Rehabilitation and Recovery Program
	7 Watershed Areas (Inabanga, Pilar, Danao,S-Bullones, Dagohoy, Loboc, Bilar,Duero G- Hernandez, San Miguel, Alicia, Candijay, Talibon, Guindulman, Pilar, Carmen, Balilihan, Catigbi-an, Batuan, Getafe, Buenavista, Clarin, Sagbayan	Provision of alternative livelihoods								PPDO, PDRM O	logistiacl supplies, Honorarium	PDRRMFund- Rehabilitation and Recovery Program



FLOODING, TYPHOON, SEVERE WIND	Support to the reduction of population at risk to flooding, typhoon, severe wind Loboc, Candijay, Inabanga, Antequera,	Determine number of families / households whose livelihood/ main source of income were affected;			No. of	Picture s, Validat ion Report	LGUs	Survey, Interview, Field Visits	Yearly	LGUs	Transportation, Communication, IT Equipment	5% DRRM Fund
	Garcia-Hernandez, Lila, Cortes, Sierra Bullones, Loay, Alburquerque; With Island	Assess and evaluate appropriate livelihood interventions;	_ families with appropriate alternative		assiste d/evalu ated approp riate	Picture s, Validat ion Report		Survey, Interview, Field Visits	Yearly		Transportation, Communication, IT Equipment	5% DRRM Fund
	Barangays: Getafe, Talibon, Bien Unido, Pres. CPG, Loon, Ubay, Tubigon, BaclayonWith Island Barangays: Getafe,	Provision of alternative livelihood intervention to expedite recovery	livelihood		liveliho od interve ntions;	Picture s, Validat ion Report		Survey, Interview, Field Visits	Yearly		Transportation, Communication, IT Equipment	5% DRRM Fund
	Talibon, Bien Unido, Pres. CPG, Loon, Ubay, Tubigon, Baclayon	Linkage with counterpart National Agencies, NGOs, etc				Picture s, Validat ion Report		Survey, Interview, Field Visits	Yearly		Transportation, Communication, IT Equipment	5% DRRM Fund
	Support to the reduction of agricultural areas at risk to Flooding, Typhoon, Severe Wind											
	Candijay (AF), Alicia, Guindulman (AF)	Provision of farm inputs to farmers and farmer associations			No. of farmer s and farmer s associ ation	Docum entatio n	LGUs	Site Visit, Interview, Report	Semi- Annua II	LGUs	Transportation, Communication, IT Equipment	General Fund
	Pilar, Batuan, Bilar, Carmen, Balilihan, Catigbian, Garcia-	Determine number of target farmers and		No. of Assesment Report with evaluation	provid ed with assista nce	Docum entatio n	LGUs	Site Visit, Interview, Report	Semi- Annua II	LGUs	Transportation, Communication, IT Equipment	General Fund



	Hernandez, Jagna, Sierra Bullones, Dana	farmer associations										
		Assess and evaluate appropriate farm inputs		No. of programs funded		Picture s, Validat ion Report	LGUs, PAG- ASA, MGB why PAGASA and MGB?	Survey, Interview, Field Visits	Yearly	LGUs, PAG- ASA, MGB why PAGA SA and MGB?	Transportation, Communication, IT Equipment	5% DRRM Fund
		Linkage with counterpart National Agencies, NGOs, etc		No. of programs funded		Picture s, Validat ion Report	LGUs, PAG- ASA, MGB why PAGASA and MGB?	Survey, Interview, Field Visits	Yearly	LGUs, PAG- ASA, MGB why PAGA SA and MGB?	Transportation, Communication, IT Equipment	5% DRRM Fund
			1.5 Linkage with counterpart National Agencies, NGOs, etc.	No. of partners	48 LGUs	Docum entatio n	LGUs	Site Visit, Interview, Report	Semi- Annua II	LGUs	Transportation, Communication, IT Equipment	General Fund
Health	1 PLGU	Post incident Evaluation (PIE) and documentation of best practices, lessons, problems encountered, challenges and recommendations	PIE conducted every after heath emergency or disaster	# of PIE conducted every after disaster	РНО	docum entatio n	РНО	Document Review	Annua I	PHO, DOH, PDRR MO	Meals and Snacks	LDRRMF
	All LGUs	Review and Updating of DRRMH Plan	All DRRMH Plan reviwed and updated	# of DRRMH Plan reviewed and updated	PHO	DRRM H Plan	PHO	Document Review	Annua I	PHO, DOH, PDRR MO	Meals and Snacks	LDRRMF



All responders	Stress debriefing	Stress debriefing conducted to all responders	percentage of responders who undergone sress debriefing	PHO	docum entatio n	РНО	Document Review	Annua I	PHO, DOH, PDRR MO	Meals and Snacks	LDRRMF
Priority Victims	Psychosocial interventions for	Psychosocial interventions conducted condcuted to all priority victims	percentage of priority victims who undergone psychosocial interventions	PHO	docum entatio n	РНО	Document Review	Annua I	PHO, DOH, PDRR MO	Meals and Snacks	LDRRMF
All LGUs	monitoring of health conditions of the affected population (ex.	Health conditions of affeced populations are monitored	# of LGUs with affected populations being monitored	PHO	Report s	РНО	Document Review	Annua I	PHO, DOH, PDRR MO	Communication allowance and transportation	LDRRMF
All LGUs	damaged facilities and	damaged health facilities are repaired	Percentage of damaged health facilities repaired	PHO	Report s	PHO	Document Review	Annua I	PHO, DOH, PDRR MO	Infra repair funds	LDRRMF
All LGUs	Replenishment of	all logistics are replenished	percentage of logisitics replenished	PHO	Invent ory	РНО	Document Review	Annua I	PHO, DOH, PDRR MO	Funds for purchase	LDRRMF
All LGUs	Recognition of	responders are recognized	percentage of responders recognized	PHO	Docum entatio n	PHO	Document Review	Annua I	PHO, DOH, PDRR MO	Meals and Snacks	LDRRMF



Annex 7: Institutional

PLGU LDRRMC and LDRRMO Organization Structures

With this Vision and Mission, the Provincial Government of Bohol thru Gov. Arthur C. Yap has issued Executive Order No. 10 series of 2019 on the Reconstitution and Strengthening of the Provincial Disaster Risk Reduction and Management Council (PDRRMC) of the Province of Bohol to ensure the coherent, integrated, proficient and responsible emergency management system in the province and coordinate and implement projects and activities on civil protection, standard humanitarian assistance and disaster management.

The PDRRMC's composition is as follows:

Erico Aristotle C. Aumentado - Chairperson

Dionisio Victor A. Balite - Executive Vice Chairperson

Ms. Vina Antopina - Vice Chairperson on Disaster

DOST - Prevention and Mitigation

Dir. Jerome Gonzales - Vice Chairperson on Disaster

DILG Preparedness

Ms. Carmelita M. Tecson - Vice Chairperson on Disaster

OPSWD Response

Atty. John Titus J. Vistal - Vice Chairperson on Disaster

PPDO Rehabilitation and Recovery

Further, the Heads or Designated Representatives of the following offices and organizations shall compose the different DRRM Pillars:

Disaster Prevention	Disaster	Disaster Res	ponse	Disaster Reha	abilitation
and Mitigation	Preparedness			and Reco	very
PDRRMO	PDRRMO	PDRRMO	GO	PDRRMO	GO
GO	GO	TaRSIER 117	OPSWD	PPDO	DOH
DOST	OPV	PHO/Hospitals	OPV	PHO/Hospitals	3
OCD	OPA	OPA	PEO	OPA	OPV
PPDO	DILG	PGSO	PMO	PGSO	PMO
PHIVOLCS	OCD	DPWH 1, 2, 3	OCD	PEO	AFP
PAGASA	PHIVOLCS	DSWD NATIONAL	DOH	Bohol Bankers	s Assn
SP	PAGASA	NFA	PNP	DPWH 1, 2, 3	
DEPED	DEPED	AFP	BFP	DA-7	
BFP	AFP	BOHOL TRI-MEDIA	PRC	BOHOL TRI-M	1EDIA
BOHOL TRIMEDIA	PNP	DEPED	PCG	DSWD NATIO	NAL
DENR	BFP	BANGON	BALDRRMO	PCG	
BISU	BOHOL TRI-MEDIA	PHIL MARITIME	UN-OCHA	BANGON	
OPV	LIGA NG MGA	BOHOL CONTRACTORS	SASSN	BOHOL	

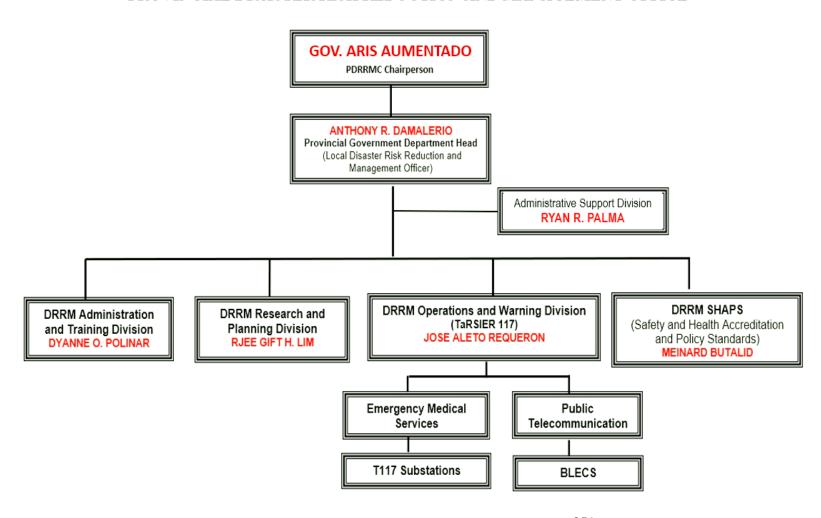


OPA PCG BEMO DPWH BALDRRMO BANGON Phil Mine Safety and Environment Association - Bohol Phil Institute of Civil Engineers United Architects of the Phils-Bohol Sangguniang	BARANGAY BANGON PRC PCG BALDRRMO MDRRMC BDRRMC TaRSIER 117 TELCOS Phil Institute of Civil Engineers (PICE) United Architects of the Phils-Bohol (UAP)	JCI Chocolate Hills	International Humanitarian Aid Partners (UNDP, UNICEF, MERLIN, IOM, etc) Local and International NGOs in Bohol Phil Mine Safety and
Environment Association - Bohol	TELCOS Phil Institute of Civil	BOHECO, BWUI etc) Local & International Humanitarian Aid	Humanitarian Aid Partners (UNDP,
United Architects of the Phils-Bohol	United Architects of the Phils-Bohol	IOM, ETC) Local & Intl NGOs in Bohol Bohol Goodwill Volunteers, Inc.	Local and International NGOs in Bohol
Panlalawigan Committees on Social	League of Municipalities of the Phils – Bohol		Environment Association – Bohol Phil Institute of Civil
Services; Peace & Order and Public Safety; Environment and Natural Resources	Chapter	Phil Institute of Civil Engineers United Architects of the Phils-Bohol TELCOS – Globe, Smart, Sun	Engineers United Architects of the Phils-Bohol
		Bus Operators & Drivers Assn Bohol Bankers Association Tzu Chi Foundation	
		World Vision CHARL	



Moreover, a Local Disaster Risk Reduction and Management Office was created by virtue of Provincial Ordinance NO. 2016-010 to serve as Secretariat and assist the LDRRMC in the implementation of disaster management plans.

PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT OFFICE





FUNCTIONS AND RESPONSIBILITIES OF THE PROVINCIAL DRRM OFFICE

1.1. General Functions of the Office

The PDRRMO within its territorial jurisdiction, shall be responsible for setting the direction, development, implementation, and coordination of disaster risk reduction and management programs, and shall perform the following functions and those that may be authorized by the PDRRMC.

1.2 Functions of the Administration and Training Division

- Organize and conduct training, orientation, and knowledge management activities on DRRM at the local level;
- Identify, assess and manage the hazards, vulnerabilities and risks provincewide that involve the most vulnerable sectors (women, children, senior citizens, and PWD);
- Identify and implement cost-effective risk reduction measures and strategies;
- Disseminate information and raise public awareness about those hazards, vulnerabilities, and risks;
- Take all necessary steps on a continuing basis to maintain, provide, or arrange the
 provision of, or to otherwise make available, suitably-trained and competent
 personnel for effective civil defense and DRRM in its area;
- Organize, train, equip and supervise the local emergency response teams and the accredited community disaster volunteers (ACDVs), ensuring that humanitarian aid workers are equipped with basic skills to assist mothers to breastfeed;
- Implement policies, approve plans and programs of the LDRRMC consistent with the policies and guidelines laid down in RA 10121
- Promote and raise public awareness of, and compliance with RA 10121 and legislative provisions relevant to the purpose of the latter;
- Implement policies, approve plans and programs of the LDRRMC consistent with the policies and guidelines laid down in RA 10121.
- Train the most vulnerable sectors (women, children, senior citizens, and PWD) in DRRM, especially in disaster preparedness.
- Does other administrative-related functions.

1.3 Functions of the Research and Planning Division

- Design program and coordinate DRRM activities, consistent with the NDRRMC's standards and guidelines:
- Facilitate and support risk assessments and contingency planning activities at the local level;
- Consolidate local disaster risk information which includes natural hazards, vulnerabilities, and climate change risks, and maintain a local risk map;
- Conduct research and development initiatives on DRRM;
- Formulate and implement a comprehensive and interated Local DRRM Plan (LDRRMP) in accordance with the national, regional, and provincial framework, and policies on DRR in close coordination with the Local Development Counil (LDC);
- Prepare and submit to the Local Sanggunian through the Local DRRM Council and the LDC the annual LDRRMO Plan and budget, the proposed programming of the LDRRMF, other dedicated DRRM resources, and other regular funding source/s and budgetary support of the LDRRMO or BDRRMC;
- Maintain a database of human resource and their capacities, equipment, directories, and location of critical infrastructures such as hospitals and evacuation centers; and
- Conduct research and development initiatives on DRRM-CCA in coordination with other agencies;



- Serve as the Secretariat and executive arm of the Local DRRM Council (LDRRMC);
- Recommend through the LDRRMC the enactment of Local Ordinances consistent with RA 10121;
- Prepare and submmit, through the LDRRMC and the LDC, the report on the utilization of he LDRRMF and other dedicated DRRM resources to the local COA, copy furnished the Regional Director of the Office of the Civil Defense (OCD) and the local government oper8ations officer of the DILG; and
- Involve the most vulnerable sectors (women,children, senior citizens, and persons with disability (PWD) in risk assessment and planning.

1.4 Functions of the Operations and Warning Division

- Operate a multi-hazard early warning system, linked to DRR to provide accurate and timely advice to national or local emergency response organizations and to the general public, through diverse mass media, particularly radio, landline communications, and technologies for communication within rural communities;
- Conduct continuous disaster monitoring and mobilize instrumentalities and entities
 of the LGUs, C50s, private groups and organized volunteers, to utilize their facilities
 and resources for the protection and preservation of life and properties during
 emergencies in accordance with existing policies and procedures;
- Develop, strengthen, and operationalize mechanisms for partnership or networking with the private sector, C50s, and volunteer groups;
- Respond to and manage the adverse effects of emergencies and carry out recovery
 activities in the affected area, ensuring that there is an efficient mechanism for
 immediate delivery of food, shelter and medical supplies for women and children,
 endeavor to create a special place where internally-displaced mothers can find help
 with breastfeeding, feed and care for their babies and give support to each other;
- Respond to and manage the adverse effects of emergency and carry out recovery
 activities to the most vulnerable areas especially to the vulnerable sectors (women,
 children, senior citizens, and Persons With Disability (PWD);
- Establish linkage and/or network with other LGUs for DRR and emergency response purposes;
- Establish a provincial, city or municipal, and barangay DRRM Operations Center;
- Coordinate other DRRM activities;
- Give early warning to the most vulnerable sectors (women, children, senior citizens, and PWD) to respond to their needs.

In summary, the PDRRMC participants during the Local Disaster Risk Reduction Management Planning workshop saw that the key recommendations to attain a vision of building back Bohol better include the following key and basic DRRM reforms:

- 1. Good, accessible and accurate database system from data capture, to data processing and data storage and retrieval;
- 2. A legislated, well-supported and financed Provincial Disaster Risk Reduction Management Plan at all level that is monitored and assessed periodically;
- 3. A functional, financially supported, legislated and well-resourced / staffed Provincial Disaster Risk Reduction Management Office at all levels;
- 4. Pervasive disaster consciousness, awareness, prevention, preparedness and response institutionalized at the community level and supported by the civil society and private / business sector; and



 A DRRM Governance Training Center that continually builds capacities of local governments and communities to plan, prevent, mitigate, prepare and effectively respond to disasters and undertake post disaster rehabilitation and recovery actions.



Annex 8: PDRRMC Resolution No. 2, Series 2022



Republic of the Philippines
PROVINCE OF BOHOL
City of Tagbilaran



PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL

EXCERPT FROM THE MINUTES OF THE SECOND FULL COUNCIL MEETING OF THE PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL (PDRRMC) OF BOHOL HELD ON NOVEMBER 28, 2022 AT THE CEREMONIAL HALL OF THE NEW CAPITOL BUILDING, TAGBILARAN CITY, BOHOL, PHILIPPINES

In Attendance: Majority of the Regular Members

RESOLUTION NO. 02

Series of 2022

A RESOLUTION APPROVING AND ADOPTING THE PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT PLAN 2023-2025 AND APPROVING THE PROGRAMS AND ACTIVITIES FOR FUNDING IN THE 2023 LOCAL DISASTER RISK REDUCTION AND MANAGEMENT FUND TO GUIDE THE DISASTER RISK REDUCTION-RELATED PROGRAMS AND PROJECTS OF THE PROVINCE OF BOHOL

WHEREAS, one of the priority agenda during the full council meeting was the presentation and approval of the Provincial Disaster Risk Reduction and Management Plan 2023-2025 including the various programs and activities for inclusion in the 2023 Local Disaster Risk Reduction and Management (LDRRM) Fund;

WHEREAS, that the Provincial Disaster Risk Reduction and Management Plan is a comprehensive result of the conducted Local DRRM Planning Workshops last April 25-27, 2022 and August 17-19, 2022 assisted by the Japan International Cooperation Agency (JICA) and Office of the Civil Defense VII together with the concerned agencies from the four thematic areas of DRRM;

WHEREAS, that part of the annual budget of the Provincial Government of Bohol is the 5% Local Disaster Risk Reduction and Management Fund (LDRRMF) in the amount of One Hundred Sixty-Nine Million Seven Hundred Seventy-Three Thousand Six Hundred Sixty-Four Pesos and Fifty Centavos (169,773,664.50);

WHEREAS, the Provincial Disaster Risk Reduction and Management Council (PDRRMC) in its Second Full Council Meeting has agreed and approved the various programs and activities for inclusion and appropriation in the 2023 LDRRM fund, to wit:





Republic of the Philippines PROVINCE OF BOHOL City of Tagbilaran



PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL

70% Pre-Disaster Program - ₱ 118,841,565.15 30% Quick Response Fund (QRF) - ₱ 50,932,099.35 **TOTAL** - ₱ 169,773,664.50

WHEREFORE, upon motion of the Provincial Budget Officer Peter Ross Retutal seconded by Jovencia B. Ganub of the Bohol Provincial Environment Management Office, be it resolved as it is hereby resolved by the Provincial Disaster Risk Reduction and Management Council in a meeting duly convened to pass

A RESOLUTION APPROVING AND ADOPTING THE PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT PLAN 2023-2025 AND APPROVING THE PROGRAMS AND ACTIVITIES FOR FUNDING IN THE 2023 LOCAL DISASTER RISK REDUCTION AND MANAGEMENT FUND TO GUIDE THE DISASTER RISK REDUCTION-RELATED PROGRAMS AND PROJECTS OF THE PROVINCE OF BOHOL

RESOLVED further to provide copies of this Resolution to the Sangguniang Panlalawigan and to the PDRRMC members and other sectors concerned, for their information, support and cooperation.

UNANIMOUSLY APPROVED.

I hereby certify to the correctness of the foregoing Resolution.

ANTHÓNY R. DAMALERIO
PDRRMO-Secretariat

ATTESTED:

ERICO ARISTOTLE C. AUMENTADO

Governor PDRRMC Chairman

By Authority of the Governgr:

Provincial Administrator
Presiding Officer

1



Annex 9: RDRRMC Certification for FY 2023



Republic of the Philippines REGIONAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL



Region VII Government Command and Control Center, BGEN Benito N Ebuen Airbase, Sangi Road, Broy, Paio, Lapu-lapu City Tel. No.(032) 236-0473 Mobile No. 0917-704-1070 Email Address: region7@ocd.gov.ph

CERTIFICATION

TO WHOM IT MAY CONCERN:

THIS IS TO CERTIFY THAT the Disaster Risk Reduction and Management (DRRM) Plan 2023-2025 of PROVINCE OF BOHOL has been duly reviewed and found that the DRRM programs, projects and activities are appropriate to the hazards of the said Local Government Unit (LGU). The Sanggunian-approved Annual Investment Plan (AIP) for DRRM-CCA of the above-mentioned LGU is seen consistent to their LDRRM Plan reviewed.

In compliance to Local Budget Memorandum Circular No. 85, s. 2022, this Certification is valid for FY 2023 only to support DBM's requirement for budget authorization purposes.

Done this <u>02th</u> day of <u>December 2022</u> in <u>Lapulapu City</u>, <u>Philippines</u>.

JONATHAN GAVINO R. ORILLO **NEDA VII**

Approved By:

Chairperson, RDRRMC/OCD Regional Director