Hazards Mapping and Assessment for Effective Community-Based Disaster Risk Management

"READY PROJECT"

ANNUAL REPORT

(1 January 2009 – 31 December 2009)

ACRONYMS

AUSAID	Australian Agency for International Development
CBEWS	Community Based Early Warning System
CSCAND	Collective Strengthening of Community Awareness for Natural Disasters
DIPECHO	Disaster Preparedness EC Humanitarian Aid Office
DOC	Disaster Operations Center
DOST	Department of Science and Technology
DRM	Disaster Risk Management
EC	European Commission
FV	Field Verification
GOP	Government of the Republic of the Philippines
GPS	Global Positioning System
HM	Hazard Map
IEC	Information, Education and Communication
LGU	Local Government Unit
MGB	Mines and Geo-Sciences Bureau
MHM	Multihazard Map(s)
MOA	Memorandum of Agreement
NAMRIA	National Mapping and Resource Information Authority
NDCC	National Disaster Coordinating Council
OCD	Office of Civil Defense
PAGASA	Philippine Atmospheric, Geophysical and Astronomical Services Administration
PHIVOLCS	Philippine Institute of Volcanology and Seismology
PHA	Preliminary Hazard Assessment
PHM	Preliminary Hazard Map
PMB	Project Management Board
READY	Hazards Mapping and Assessment for Effective Community Based DRM
REDAS	Regional Earthquake Damage Assessment Software
SNAP	Strategic National Action Plan
UNDP	United Nations Development Programme
UN ISDR	United Nations International Strategy for Disaster Reduction

1. INTRODUCTION:

This report is a documentation of the results and accomplishments of the READY project for the two semesters of 2009. 2009 is an important milestone for the project because it is also the scheduled year for the Medium Term Review (MTR) which actually took place last August-December, 2009. The MTR is a process of determining a project's progress towards its set outcome(s). It is also an opportunity to refine the implementation strategy and make changes, if necessary, to enable the project to achieve the results and impacts that it was meant to attain.

Lessons learned, so far, were fed into the MTR process and provided inputs for recommendations for a second phase of the READY project. These lessons are critical in the sense that a post READY intervention will be an opportunity to clarify roles in the generation and sharing of data in the form of multi-hazard maps and the implementation of priority disaster mitigating measures like community based early warning systems (CBEWS).

Other related work catalyzed by the third component (mainstreamining DRM in local development planning processes) will also be referred to in this report. Actual activities conducted under this project will be contextualized under the broader work of DRR/CRR mainstreaming.

3. PROJECT PERFORMANCE

This report covers two (2) semesters of the implementation period, January 1 to December 31, 2009, in compliance with the reporting requirements set out in the Agreement between AusAID and the UNDP and against the annual work plan set out in **Annex 1.** The project's technical (physical) accomplishments are summarized in **Table 1** while its financial delivery is provided in **Annex 2.** A discussion of these information is provided below.

3A. Technical (Physical) Accomplishments

As in past reports, the quantification of the project's technical/physical accomplishments set against the annual and over-all targets and their percentage equivalents are contained in **Table 1** below**.** The project's movement towards its set outcome(s) is also indicated by the quantification of the tasks already accomplished so far against original targets.

TABLE 1: SUMMARY OF TECHNICAL/PHYSICAL ACCOMPLISHMENTS (As of 31 December 2009)

Outcome	Outputs	Targets 2009	Accom. 2009		Cummulative % of total	
			No.	%	No.	%
1. Multi-hazard risks assessed for 27 provinces	27 sets of printed integrated provincial multi-hazard maps[1];	27 provin.HM at 1:50k	22 prov.	81	55 provinces	
	623 printed municipal/city flood/RIL hazard maps	10 HM at 1:10k	17 mun.	170	33 mun. 3 cities	
	27 tech. reports				4	15
2.CB disaster preparedness enhanced	13prov. flood CBEWS	9	4	44	10	77
	18 prov. tsunami CBEWS	8	5[2]	56	11	61
	54 IEC campaigns conducted for 27 provinces[3]	3 province-wide, 5 introductory , 9 specialized for EWS (Floods, Landslide, Tsunami)	25[4]	147	35	65
	IEC DRM mat'ls. prod./dist. to 27 prov.[5]		15,270 flyers 12,725 posters 392 CDs		38,387 various IEC materials	
	346 Hazard signages in 27 prov.[6]	63 multi-hazard signage (tsunami, landslide/rock fall, floods)	56[7]	89	127	37
3. DRM mainstreaming into local dev't. processes started	2 workshops				2[8]	100

[2] Full establishment of CBEWS for Tsunami in 5 barangays in 2 provinces, namely; N. Samar and E. Samar.
[3] 1 introductory IEC & dissemination of mapping results per province; may also increase depending on the need to conduct special IECs.
[4] 5 Project launching (N. Samar, E. Samar, Iloilo, Antique and Zambales), 3 province-wide IEC to present the results of multi-hazards mapping, 4 CBFEWS, 7 CBEWS for Tsunami, 3 Landslide Hazard Special IEC, 3 ToT
[5] Minimum of 1 set per barangay comprising posters & pamphlets
[6] 346 for tsunami;100 for landslides; total=446
[7] Installed 24 flood, 28 tsunami and 4 landslide signages
[8] Target attained by 2008.

Outcome	Outputs	Targets 2009	Accom. 2009		Cummulative % of total	
			No.	%	No.	%
	Addt'l funds mobilized[9]		A$ 2.0 M			
	27 REDAS training conducted	5 REDAS training	7[10]	140	13[11]	48

1.) Component 1: Multi-Hazard Identification and Disaster Risk Assessment

Multi- hazards mapping for 2009 continued to be undertaken at the provincial level for seismic/geological hazards and at the city/municipality level for flood hazards. For the reporting period, mapping activities were undertaken for eight provinces in various stages- final mapping, preliminary hazard mapping and peer review. The concerned provinces were: Pampanga, Rizal, Zambales, Eastern Samar, Northern Samar, Iloilo, Ilocos Sur and Antique. A total of 22 provincial level and 17 municipal level maps, in various stages of development, were produced for the year. One (1) consolidated (final) multi-hazard provincial map for Pampanga was produced for 2009. A breakdown of the mapping results per province, municipality/city and hazard type are provided in **Table 2** below.

Table 2: Breakdown of Hazards Maps Produced for 2009

Area	+Lique	+GR	+EIL	Tsunami	+GS	Volc.	+RIL	Flood	+SS	Total
Pampanga	1 Final map sheet[12]	5 map sheets								1 Provl
Rizal (San Mateo, etc.)	8 map sheets		1							9 Municipal
N. Samar		10 map sheets		5 map sheets	17 map sheets	14 map sheets	17 map sheets	13 map sheets		5 Provl
E. Samar		17 map sheets		10 map sheets	22 map sheets	22 map sheets	22 map sheets	15 map sheets		7 Provl
Zambales		6 map sheets		5 map sheets	11 map sheets	9 map sheets [13]	11 map sheets	4 map sheets	9 map sheets	7 Provl
Iloilo	8 map									8 Municipal

[9] Additional 2M Aus$ through another project, "Integrating DRR/CCA into Local Development Planning" from AusAID, in addition to the previous 0.3M US$ of DiPECHO.

[10] Trainings were conducted for the provinces of Bohol (2 batches), Surigao del Sur (including Dinagat Islands), Cavite, Pampanga, Laguna and Iloilo City.

[11] 4 trainings in 2006 and 2007 and 2 trainings in 2008

[12] Consolidated MHM for the whole province.

[13] Volcanic hazards mapping for Zambales included flooding and lahar hazards

	sheets									
Ilocos Sur		5 map sheets								1 Provl
Antique		15 map sheets								1 Provl
Total *Map Sheets	**17**	**58**	**1**	**20**	**50**	**45**	**50**	**32**	**9**	**22Provl. 17 Mun.**

Legend:
+ Lique-Liquefaction, GR-ground rupture, EIL-earthquake induced landslide, GS-ground shaking, RIL-rain induced landslide, SS-storm surge

Component 2: Community-based Early Warning Systems & IEC

Community-based Early Warning Systems CBEWS

The accomplishments on the establishment of community-based early warning systems for tsunami, floods and landslides for 2009 are reflected in **Tables 3** , **4** and **5**, respectively.

Table 3: *Tsunami CBEWS Establishment*

Pilot Area	Activity	No. of Participants	Outputs/Results
Northern Samar 1. Brgy. Barobaybay, Municipality of Lavezares 2. Brgy. Cabatuan, Municipality of Palapag	CBEWS establishment & evacuation plan formulation	2,200	20 tsunami signages 16 batingaws 4 megaphones 4 evacuation plan(s)
Pampanga Province 1. Brgys. Mabuabuan, Batang, Sto. Tomas, all in the Municipality of Sasmuan	One-day IEC[14]	35	Results of the hazards maps shared & knowledge on tsunami increased.
Eastern Samar 1. Brgy Japitan, Municipality of Dolores 2. Brgy. Suribao (Sabang), Municipality of Borongan 3. Brgy. San Miguel, Municipality of Llorente 4. Brgy. Sulangan of Guiuan, Municipality of Guiuan[15]	CBEWS establishment & evacuation plan formulation	3,755	20 tsunami signage 6 megaphones 6 evacuation plan(s)

[14] Conducted as a culminating CBEWS activity. Follow on contingency planning workshop was planned by participants using the results.
[15] Tsunami IEC conducted only.

Table 4: *Community-based Flood Early Warning Systems*	
Province	**Activity**
Northern Samar	Ocular & site survey, installation of equipment, re-training, special IEC and dry run/flood drill
Cavite Province	Re-training, IEC and dry run
Iloilo City	Installation of flood signage, IEC of flood hazard map in Iloilo City, IEC on the CFEWS, training of LGUs and flood drill/dry run
Ilocos Sur	Re-training, IEC and dry run

Table 5 : *Details of Landslide Signage Installation*		
Area	**No. of Participants**	**No. of Landslide Signage**
Province of Rizal • Municipality of Rodriguez • Municipality of San Mateo	60	2
Province of Leyte • Ormoc City	40	2

Information, Education and Communication (IEC)

Details of the IEC activities undertaken for 2009 are provided in **Table 6** below. Province-wide IEC to present the results of the multi-hazard mapping were conducted in three (3) provinces, namely: Northern Samar, Eastern Samar and Zambales.

Table 6: *Details of the Province-wide IEC Events Conducted*

Province	No. of Participants	% of Men Participants	% of Women Participants	No. of IEC Materials Distributed [16]
Northern Samar	893	n/a	n/a	5,358 flyers 4,465 posters 154 CDs[17]
Eastern Samar	602	372 (62%)	230 (38%)	6,000 flyers 5,000 posters 120 CDs
Zambales	372	253 (68%)	119 (32%)	3,912 flyers 3,260 posters 118 CDs

Training of Trainers (ToT)

For this year, two (2) trainors training for Tsunami CBEWS were conducted in the provinces of Northern and Eastern Samar. The ToT was introduced primarily to ensure that municipal planners and deputized coordinators understand and appreciate the importance of the CBEWS and for them to be able to share with other barangays in their respective areas of jusrisdiction the importance and requirements for CBEWS establishment & operation. The ToT was recommended by the PMB to ensure the sustainability of the established CBEWS. A ToT's standard design includes lectures on the basic concept(s) of the concerned hazard and preparedness activities involving hazard monitoring & evacuation drills, among others. For example, for the tsunami ToT, hands-on barangay watching exercises in 2 pilot areas to observe the dynamics, determine requirements and possible improvements of tsunami drills were undertaken by the ToT participants.

[16] Posters, flyers, CDs of Lectures for teachers

[17] The CD contains the lecture materials/presentations by the READY Team of Lecturers.

Tsunami IEC and Drill(s)


IEC Activities in Northern Samar

IEC and drills were conducted in 2 pilot barangays in Northern and Eastern Samar and in requesting barangays/municipalities such as Sasmuan, Pampanga, last November 2009. The IECs were conducted a night prior to the day of the drill. Participants were residents of the barangays, ranging from children to adults. Representations were diverse and multisectoral, involving both ordinary citizens and officials, including both men and women. Observers from nearby municipalities and ToT participants were also present. Evaluation meeting(s) were held after the drills.

Landslides IEC

Attendees to the special IEC which presented the results of the landslide hazard mapping in the municipalities of Rodriguez & San Mateo of the province of Rizal and Ormoc City of the province of Leyte, were barangay chairpersons, municipal officials and local uniformed personnel. MOA(s) articulating the responsibilities of the MGB, OCD and the concerned LGU(s), on the maintenance of the installed signage, were also executed. Women municipal and barangay officials attended the said events.

Component 3: Mainstreaming of Disaster Risk Reduction

1. <u>REDAS Use for Mainstreaming DRR into Development Planning Processes</u>

Table 7: *REDAS Training Conducted for 2009*

Province	No. of Participants	No. of REDAS license provided
Bohol (2 batches)	78	60
Surigao del Sur (with Dinagat Island participants)[18]	49	43

[18] PPDO, PPDC, MPDO, DPWH, OCD CARAGA & R11, PHIVOLCS Davao and Surigao del Sur, NEDA CARAGA and Province of Dinagat Islands representatives were the participants of the said training.

Cavite	54	41
Pampanga	73	43
Laguna	22	20
Iloilo City	30	

The REDAS training module includes lectures, hands-on exercises, field surveys, workshops and presentations. Participants to the REDAS trainings are diverse. They are representatives coming from city/municipal crisis disaster management offices, health offices, planning offices, social welfare departments, engineering offices, assessor's office, environment and natural resources office, partner communications entities (e.g.SMART), and local/regional offices of PHIVOLCS, OCD, NEDA, AFP and PNP, among others.

Project Management

The following activities were primarily facilitated/undertaken by the Project Management Office to ensure that the Project moves forward and achieves its targets for the year:

- Signing of the Subsidiary Arrangement between and among AusAID, Geosciences Australia and the CSCAND agencies, specifically PHIVOLCS, on February 9, 2009, to further deepen the partnership started. An Options Paper which documents the technical assistance needed by the CSCAND agencies was also prepared by virtue of the agreement.

- Facilitated Project Launching(s) in the Eastern Samar , Iloilo and Antique Provinces.

- Facilitated the signing of the PNRC 143 and READY Projects MOU on the government side. Senator Richard Gordon as Chairman of the PNRC and Gen. Glenn J Rabonza as Executive Officer and READY Project Manager, signed the MOU with the READY member agencies, UNDP, AusAID and Governor Tupas of Iloilo witnessing the signing. The MOU formally sealed the partnership of the two projects towards their mutual objective of disseminating down to the community level, the data generated from the READY Project such as the results of its multi-hazard mapping and establishment of community-based early warning systems and the training of municipal planners and other concerned officials on the use of REDAS.The MOU also defines capacity building for the members of PNRC 143 Project, to be provided by the READY Technical Team, if the need arises.

- Facilitated the IP's (with the RPs) forging of an MOU on July 22, 2009 with the DPWH, PICE and UP College of Engineering, to maximize the utilization of the multi-hazard maps produced under READY for resilient infrastructure. The task force proposed to be

formed under the MOU will ensure extensive utilization of READY maps as input to the Infrastructure sector.

- Facilitated the conduct of two (2) Project Management Board Meetings (PMB).

- Facilitated the Planning Meeting cum workshop for READY for 2010 on December 8-9, 2009.

- Catalyzed the IP and RP staff's (total of 12) participation in the UNDP training on RBM and NIM on November 4-6, 2009.

- The PMO Staff also participated in the pre-outcome and outcome board meetings conducted by UNDP and NEDA.

3B. Project Financial Delivery

The annual (2009) and cumulative (2006-2009) financial deliveries of the project are provided in **Annex 2,"**Summary of Expenditure as of December 2009". Of the total resources provided by the Australian Government in the amount of US$ 1,908,397, the 2009 approved budget is US$ 876,024.98. Total expenditure for 2009 is US$ 546,391.95 or 62.4 % of the total annual budget. Of this, US$ 210,444.24 or 38.52% was used up for hazard mapping; US$ 219,181.63 or 40.11% for CBEWS; US$ 21.37 % to mainstreaming. On a cumulative basis, total resources spent as of 31 December, 2009 was US$ 1,880,174.09 or 98.52 % of total.

4. IMPLEMENTATION ISSUES AND MITIGATING MEASURES

Major issues that continued to pose constraints for the project, especially the pace of the mapping, are provided below. The mitigation actions taken or proposed to be undertaken are likewise provided. These issues were also fed into the Medium Term Review (MTR) which took place towards the last quarter of the year.

Mapping

The lack of "warm bodies" in terms of the actual mapping was still the main problem of the CSCAND agencies. Collaboration with academic institutions and other partners is still being explored.

The lack of base maps still hindered consolidation of the multi-hazard mapping results of the other risk agencies (PhiVolCS, PAGASA and MGB).The mitigation approach was to be opportunistic, by constantly re-prioritizing provinces whose base maps become available first.

CBEWS/IEC

The concept of developing "keepers" of the knowledge and technological approach to the CBEWS establishment and implementation through the "Training of Trainors" was introduced this year. This is aimed at ensuring that there will be a core of people in the CBEWS provinces who can replicate and ensure continued operation of these systems on a provincial scale, beyond the pilot barangays and municipalities/cities.

IEC activities, although very beneficial in securing buy in and support from the local leadership and other stakeholders, also affected the pace of mapping and used up an unexpectedly significant amount of the budget. The recommendation, which has been effected, was to scale down IEC activities and prioritize mapping.

REDAS

Demand for REDAS and the concomitant training increased this year. Accommodation spawned problems in terms of stress on existing resources and time of the trainors who were also involved in the other important tasks of READY like the mapping, CBEWS and IEC. The potential role of REDAS as the integrating risk assessment tool has become more prominent and developing it further for that purpose needs to take place at a pace that would be responsive to the demand. The work on the exposure

data base is tedious but is expected to bring about the features that would enable REDAS to provide this much needed service.

Project Management

Project management also encountered problems, especially in terms of cash shortfall towards the end of the year, as well as, delayed compliance such as submission of quarterly reports from the implementing teams/ responsible partners (RPs). The cash limitation has been traced to aging cash advances which prevented the release of new funds by UNDP to the Project. [19] The mitigating measures resorted to and proposed to be observed in the remaining implementation period of the project are as follows:

- Ensure appropriate planning & budgeting, 80% Utilization of Cash Advances and timely submission of the required work plans and quarterly reports and liquidation documentation.

On the projected budget shortfall to attain the original mapping targets and to defray the costs of unforeseen but critical activities (e. g. additional IEC activities, REDAS enhancement and use,etc..) to ensure the success of and attainment of the project outcomes, the following are being proposed at this stage:

- Discussion is needed between and among the partners (AUSAID, UNDP and the GoP) on the need to and the possibility of mobilizing supplemental funding to complete the activities in the 27 targeted provinces.

- Prioritize mapping over other activities like IEC and CBEWS.

[19] Release of a new cash advance is dependent on the utilization of 80% of the preceeding one. Liquidation is hindered by the uneven pace of liquidation to the IP by the RPs..

Annex 1

United Nations Development Programme
Philippines

ANNUAL WORK PLAN

Year: 2009
Award ID: 00044511
Award Title: READY PHASE II UNDP / AUSAID CSA
Hazards Mapping and Assessment for Effective Community Based Disaster Risk Management

Project ID	Expected Output	Key Activities	Annual Targets	Project Sites	Timeframe Q1	Q2	Q3	Q4	Responsible Partner	Fund	Donor	Planned Budget		Amount
												Budget Description		In US$
00052397	READY II Multi Hazard Mapping	1 Hydro-met Hazards (PAGASA)	1.1. Flood Hazard (Scale: 1:10K)	Iloilo/Iloilo, Antique, E. Samar/N. Samar/ Virac Catanduanes, Benguet					PHL Office Civil Defense NDCC	30000	AUL	71400 Service Contract (GIS Tech)		8,597.04
									PHL Office Civil Defense NDCC	30000	AUL	71600 Travel		39,352.35
									PHL Office Civil Defense NDCC	30000	AUL	72200 Equipment & Furniture		3,114.90
			1.2. Storm Surge (Scale: 1:50K)	Zambales, Ilocos Sur, Antique, Iloilo, Pampanga, Eastern Samar					PHL Office Civil Defense NDCC	30000	AUL	73400 Rental & Maint of Equipt		2,104.82
									PHL Office Civil Defense NDCC	30000	AUL	72400 Communic & Audio Visual Equip		357.82
									PHL Office Civil Defense NDCC	30000	AUL	72500 Supplies		3,883.44
									PHL Office Civil Defense NDCC	30000	AUL	74500 Miscellaneous Expenses		2,104.82
					SUB TOTAL, Hydro-met Hazards (PAGASA)										57,295.18
		2 Geological Hazards (MGB)	2.1. Rain-Induced Landslide (Scale: 1:10K)	Cavite, Ilocos Sur, Iloilo, Antique					PHL Office Civil Defense NDCC	30000	AUL	71400 Service Contract (Tech Assistant)		3,283.52
									PHL Office Civil Defense NDCC	30000	AUL	71600 Travel		21,091.35
			2.2. Validation of 1:50k Flood Map of Iloilo Province						PHL Office Civil Defense NDCC	30000	AUL	72400 Communic & Audio Visual Equip		210.48
									PHL Office Civil Defense NDCC	30000	AUL	74500 Miscellaneous Expenses		2,104.82
									PHL Office Civil Defense NDCC	30000	AUL	72500 Supplies		1,768.05
					SUB TOTAL, Geological Hazards (MGB)										28,458.22
		3 Earthquake Hazards (PHIVOLCS)	3.1. Ground Rupture (Scale: 1:50K)	N. Samar, E. Samar, Zambales, Antique, Iloilo					PHL Office Civil Defense NDCC	30000	AUL	71400 Service Contract (Tech Assistant)		10,571.44
									PHL Office Civil Defense NDCC	30000	AUL	71600 Travel		117,927.72
			3.2. Ground Shaking (1:50K)	N. Samar, E. Samar, Zambales, Antique, Iloilo					PHL Office Civil Defense NDCC	30000	AUL	72400 Communic & Audio Visual Equip		1,094.51
									PHL Office Civil Defense NDCC	30000	AUL	72500 Supplies		9,576.93
			3.3. Liquefaction (1:50K)	N. Samar, E. Samar, Zambales, Antique, Iloilo					PHL Office Civil Defense NDCC	30000	AUL	73400 Rental & Maint of Other Equip		2,104.82
									PHL Office Civil Defense NDCC	30000	AUL	74500 Miscellaneous Expenses		11,039.76
			3.4. Earthquake-Induced Landslides (1:50K)	N. Samar, E. Samar, Zambales, Antique, Iloilo										
			3.5. Tsunami	N. Samar, E. Samar, Zambales, Antique, Iloilo										
			3.6. Volcanic	Zambales										
					SUB TOTAL, Earthquake Hazards (PHIVOLCS)										151,815.20
		4 Support to Mapping Activities (NAMRIA)	4.1. Base Maps						PHL Office Civil Defense NDCC	30000	AUL	71400 Service Contract (Tech Assistant)		13,576.09
			4.2. Multi-Hazard Maps Published						PHL Office Civil Defense NDCC	30000	AUL	71600 Travel		10,023.99
			- Data Conversion - Integration of Themes - Layout Preparation - Printing of Provincial Maps -CD Archiving	Laguna, Zambales, Antique, Iloilo, Ilocos Sur, Cavite, N. Samar, E. Samar, Leyte, S. Leyte, Bohol, Aurora, Cavite, Pampanga					PHL Office Civil Defense NDCC	30000	AUL	72400 Communic & Audio Visual Equip		589.35
									PHL Office Civil Defense NDCC	30000	AUL	72500 Supplies		56,724.90
									PHL Office Civil Defense NDCC	30000	AUL	74500 Miscellaneous Expenses		3,704.48
					SUB TOTAL, Support to Mapping Act (NAMRIA)										84,618.82
				TOTAL, MULTI HAZARD MAPPING										322,177.42
00052471	READY II Community Based Disaster Preparedness	1 CBEWS for Tsunami (PHIVOLCS)	1.1. Printing and fabrication of signages	N. Samar, E. Samar, Zambales, Antique, Iloilo, Pampanga					PHL Office Civil Defense NDCC	30000	AUL	71620 Travel		87,117.66
			1.2. Installation of Signages						PHL Office Civil Defense NDCC	30000	AUL	72500 Supplies		17,821.20
			1.3. Identification of evacuation site and development of evacuation plan						PHL Office Civil Defense NDCC	30000	AUL	74210 Printing & Publication		22,447.91
									PHL Office Civil Defense NDCC	30000	AUL	74500 Miscellaneous Expenses		2,752.66
			1.4. Conduct of IEC											
			1.5. Conduct of drills											
					SUB TOTAL, CBEWS for Tsunami (PHIVOLCS)										130,139.42
		2 CBEWS for Floods (PAGASA)	2.1. Consultation workshop & data collection	Ilocos Sur, Cavite, N. Samar, E. Samar, Antique, Iloilo, Aurora, Leyte, So. Leyte Laguna, Zambales					PHL Office Civil Defense NDCC	30000	AUL	71620 Travel		85,791.58
			2.2. Survey (Site Inspection)						PHL Office Civil Defense NDCC	30001	AUL	71635 Travel - Others		21,643.80
			2.3. Installation/cross sectioning						PHL Office Civil Defense NDCC	30002	AUL	72400 Communic & Audio Visual Equip		37,023.75
			2.4. Training/OJT/dry run						PHL Office Civil Defense NDCC	30004	AUL	72500 Supplies		26,637.83
			2.5. Printing and fabrication of signages						PHL Office Civil Defense NDCC	30006	AUL	74500 Miscellaneous Expenses		19,816.88

Project ID	Expected Output	Key Activities	Annual Targets	Project Sites	Timeframe Q1	Q2	Q3	Q4	Responsible Partner	Fund	Donor	Planned Budget	Budget Description	Amount In US$
			2.6. Installation of Signages (Flood)						PHL Office Civil Defense NDCC	30000	AUL	74210	Printing & Publication	28,415.07
			2.7. Retraining, IEC & dry run											
			2.8. Conduct of exit strategy											
					SUB TOTAL, CBEWS for Floods (PAGASA)									219,328.81
		3 Installation of Signanges (MOB)	3.1. Printing and fabrication of Signages (Lanzslide & rockfall signages)	Ormoc City, Rizal, Cavite, Iloilo					PHL Office Civil Defense NDCC	30000	AUL	71620	Travel	7,366.67
									PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	188.59
			3.2. Installation of Signages						PHL Office Civil Defense NDCC	30000	AUL	74210	Printing & Publication	13,359.38
									PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	2,104.82
					SUB TOTAL, Installation (MOB)									22,999.45
		4 IEC (OCD)	4.1. Conduct of IEC to communities at risk	N. Samar, E. Samar, Zambales, Antique, Iloilo					PHL Office Civil Defense NDCC	30000	AUL	71620	Travel	58,886.67
									PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	1,052.41
			4.2. Publication of IEC Materials						PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	19,314.97
									PHL Office Civil Defense NDCC	30000	AUL	74200	Printing & Publication	31,572.30
									PHL Office Civil Defense NDCC	30000	AUL	73400	Rental & Maint of Equipt	210.48
									PHL Office Civil Defense NDCC	30000	AUL	72800	IT Equipment	3,683.44
									PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	189,611.58
					SUB TOTAL, IEC (OCD)									304,334.83
				TOTAL, COMMUNITY BASED DISASTER PREPAREDNESS										676,891.73
00052473	READY II	1 Mainstreaming in Local Development												
	Mainstreaming DRR	2 Strengthening NDCC-OCD (OCD)	2.1. Conduct of Meetings	PMO / All sites					PHL Office Civil Defense NDCC	30000	AUL	71400	Contractual Services (FAO)	7,261.63
			2.2. Coordination, Monitoring & Evaluation						PHL Office Civil Defense NDCC	30000	AUL	71620	Travel	40,500.11
			2.3. Administration						PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	3,790.99
			2.4. Acquisition of Equipment						PHL Office Civil Defense NDCC	30001	AUL	74500	Miscellaneous Expenses	18,314.04
									PHL Office Civil Defense NDCC	30000	AUL	72400	Communications Cost	3,157.23
									PHL Office Civil Defense NDCC	30000	AUL	74100	Professional Fee (Audit Cost)	10,524.10
									PHL Office Civil Defense NDCC	30001	AUL	73400	Rental & Maint of Equipt	2,736.27
					SUB TOTAL, Strengthening NDCC-OCD (OCD)									86,284.29
		1 Mainstreaming in Local Development through provision of REDAS software and Conduct of Users Training	1.1. REDAS Users' Training	So. Leyte, Surigao del sur, Surigao del Norte, Bohol, Aurora					PHL Office Civil Defense NDCC	30000	AUL	71400	Service Contract (Tech Assistant)	3,906.71
									PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	32,200.69
									PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	288.36
									PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	4,420.12
									PHL Office Civil Defense NDCC	30000	AUL	73400	Rental & Maint of Other Equip	2,104.82
									PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	5,743.21
					SUB TOTAL, Mainstreaming in Local Dev't Plans									48,666.15
				TOTAL, MAINSTREAMING DRR										134,950.41
				GRAND TOTAL										1,133,929.55

Prepared by: LENIE DURAN-ALEGRE, Project Monitoring Officer

Approved by: GEN GLENN J RABONZA (RET), Project Manager

Date:

Revision: