



Hazards Mapping and Assessment for Effective Community-Based Disaster Risk Management “READY PROJECT”

SEMI- ANNUAL REPORT
(1 July 2007 – 31 December 2007)

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
IEC	Information, Education and Communication
LGU	Local Government Unit
MGB	Mines and Geo-Sciences Bureau
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 is the second of the required semestral reports under the agreement signed between the Australian Agency for International Development (AUSAID) and the United Nations Development Programme (UNDP) for the project, “Hazards Mapping and Assessment for Effective Community-based Disaster Risk Management “ or READY. It specifically covers the period July 1- December 31, 2007, while the first report covered a one year period, August 1, 2006 to June, 2007. The accomplishments are, however, presented in an aggregate and cumulative fashion to provide a picture of the project’s incremental attainment of set annual targets, as well as, movement towards outcomes. Hence, the physical and financial accomplishments are still provided on an annual (2007) and cumulative basis (i.e. as of December, 2007 vis the project’s actual start up in August,2006).

To standardize measurement of accomplishments, the first report detailed the methodologies for producing the outputs, which were segmented and assigned indicative percentages as progression is made towards outcomes. Quantified targets were refined or set during the first reporting period based on the Project Document and inception planning and further refined in the current reporting period based on the validation results from the field work. This process will be continuously refined, as assumptions are either validated or reformulated in the course of new or additional information during implementation.

The results of complementary initiatives like the “Mainstreaming Disaster Risk Management (DRM) into Sub- National Planning” provide possibilities for further refining the mapping methodology and moving towards risk- mapping. The possibility too, of rapidly sharing the mapping and risk assessment results with the local development planners on an operational basis, has become even greater with the refinement of related tools like the REDAS which is envisioned to be an interactive, user-friendly tool.

Additional issues have come up, specifically affecting the mapping process (e.g. rapid turn-over of personnel in the concerned government agencies because of new developments like the revitalization of the mining industry which has pirated many of the government geologists involved in the project). However, the emergence of these issues can also be viewed as providing opportunity to enter into more innovative implementation arrangements and new partners (e.g. academe). At this stage, new learnings are already emerging (e.g. protocols on dealing with LGUs and sharing sensitive hazard information).

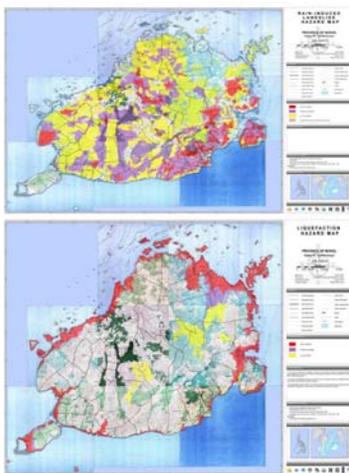
3. PROJECT PERFORMANCE

This report covers the implementation period, July 1, 2007 to December 31, 2007, to update 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 performance, i.e. achievement of annual targets are described below while the project's financial performance is presented and discussed in **Annex 2** and **Sub-section 3B**.

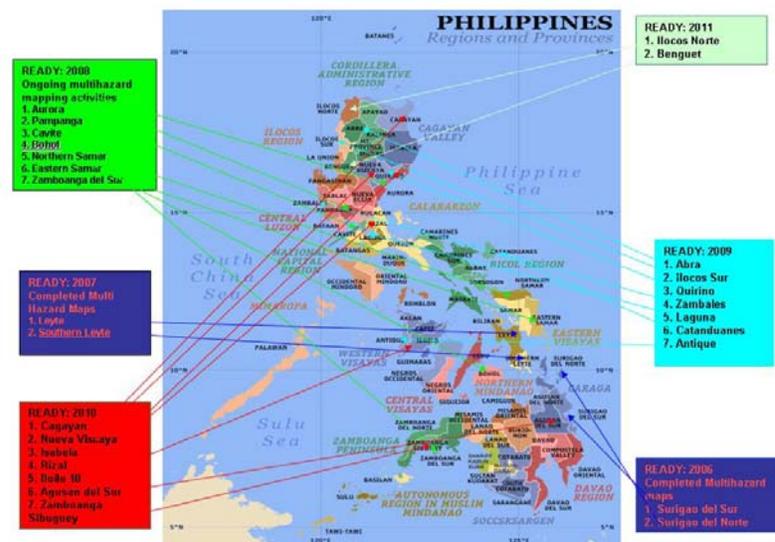
3A. Technical Accomplishments

The consolidated results of the project's technical accomplishments as indicative percentages of the over-all target outputs per component and a qualitative indication of movement towards outcomes are reflected in the matrix contained in **Annex 2**.

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



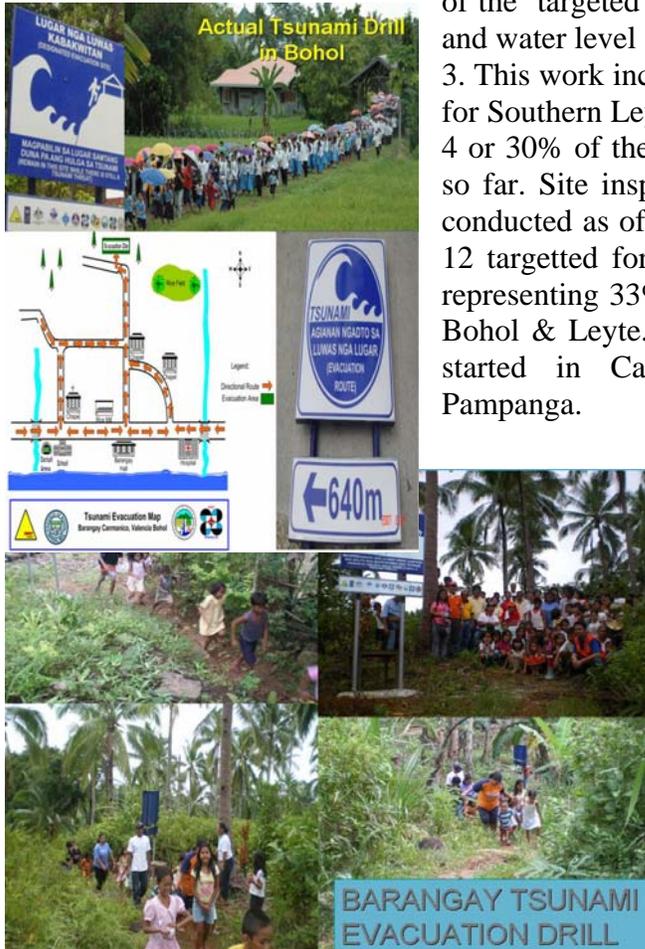
The accomplishments presented here are the total for 2007, as well as, the cumulative results against ultimate targets. Total preliminary hazard maps produced for 2007 was 59, or 125% of the targeted 47 maps, including the latest available for Bohol, Zambales & Aurora, in addition to those earlier produced for Surigao del Norte & Surigao del Sur, Leyte & Southern Leyte. Over-all, these represent 4% of total target PHMs by end of project. One hundred thirty (144) final maps have been produced as of December 31, 2007, including the 2 Surigaos and the two (2) Leytes, from the PHM above, representing 4% of total target. Printed maps were produced for Surigao del Norte and Surigao del Sur, numbering 14 or 155% of target for 2007 but 4% of ultimate target.



Component 2: Community-based Early Warning Systems

CBEWS

The project has installed 2 flood CBEWS for Leyte and Southern Leyte, constituting 66% of the targeted 3 systems for 2007. The list of rainfall and water level stations in Leyte are provided in **Annex 3**. This work includes training and dry runs. The details for Southern Leyte are provided in **Annex 4**. Over-all, 4 or 30% of the 13 flood CBEWS have been installed so far. Site inspections for Ilocos Sur have also been conducted as of this date. For tsunami CBEWS, of the 12 targeted for 2007, four (4) have been completed, representing 33% of target. These include CBEWS for Bohol & Leyte. The tsunami CBEWS have also been started in Cavite, Southern Leyte, Aurora and Pampanga.



On a cumulative basis, the tsunami CBEWS completed so far constitute 39% of the total deliverables. Installed tsunami signages totaled 28 for 2007, or 29% of the targeted 96. Cumulative accomplishment in this area is 18% (63 of the originally targeted 346).

Information, Education and Communication (IEC)

The target IEC activities, the standard package of which comprises one (1) introductory IEC and one (1) dissemination of results per province, has been set at 54 for the 27 provinces. For 2007, two (2) were conducted (on mapping results for Leyte and Southern Leyte and one (1) on coordination and



preparatory IEC for Bohol. These accomplishments represent 100% of the 2007 target of 3 (Leyte, Southern Leyte & Bohol). On a cumulative basis, however, the accomplishments represent 6% of the total (54) IEC campaign set targets. In terms of IEC materials, 8,556 posters were distributed or 43% of the 2007 target of 20,000 and 10,695 pamphlets or flyers representing 22% of the targeted 50,000 pieces.

Component 3: Mainstreaming of Disaster Risk Reduction

As of December, 2007, the complementary project, “Mainstreaming Disaster Risk Management in Sub-National Development and Land Use/ Physical Framework Planning in the Philippines” funded by DiPECHO, was able to establish the methodology for DRM mainstreaming which involves a two pronged approach, one using a mathematical model for risk assessment and the other, a semi-quantitative approach using a matrix. Both approaches are designed to use the mapping results of READY in the hazard identification stage, as well as, other hazard maps available to local planners. The additional US \$ 100,000 targetted for 2007 for this component was achieved with the signing of a US\$ 136,612 agreement between the International Strategy for Disaster Reduction (ISDR) and UNDP, with the funding coming from DiPECHO, to develop the Philippines’ Strategic National Action Plan on DRM (SNAP), which also has a pilot mainstreaming exercise for the health sector.

Support to Project Management

The third Project Management Board meeting was held on September 28, 2007 in the National Disaster Management Center, Camp Aguinaldo, Quezon City where the annual report was presented to the Board. Some of the decisions reached which were meant to address some of the implementation issues raised earlier, are as follows:



- a.) On the issue of the need for barangay IEC, the Board resolved to engage in partnerships with local and national NGOs such as CARE, in the case of Southern Leyte, to conduct the IEC activities.
- b.) Revisit REINA and the precursor READY project, for monitoring and evaluation and distill

additional learnings for inputting into READY. c.) Explore and strengthen an appropriate integration mechanism to enable real time information from the community to feed into the concerned national offices, enabling provision of timely warning information, both at the national and local levels, especially for slow onset disasters. d.) Provide sample of physical outputs as soon as they become available. Other decisions include: 1.) Conduct of an image editing course for project personnel (September 17-21 and 24-28,2007) to develop their capacity on image editing; and 2.) Training of 32 READY mapping/technical personnel on the use of the ILWIS software, to complement the mapping techniques training conducted on August 15-16,2007. On REDAS, the data base of the elements at risk for the provinces of Leyte, Southern Leyte, Bohol, Aurora, Pampanga and Cavite have been built up. The REDAS software was also upgraded to version 1.7. Training on the software was conducted for the Infanta Municipal Disaster Coordinating Council (MDCC) and NEDA staff, totaling 12 participants in August.

3b. Financial Performance

The annual (January- December, 2007) and cumulative financial performance of the project for the period July1, 2006- December 31, 2007 is provided in **Annex 5**,“Summary of Expenditure per Activity”. Of the total resources provided by the Australian Government in the amount of US\$ 1,908,397, the 2007 approved budget is US\$ 920,415.50. Total expenditure for 2007 is US\$ 379,279.47 or 41.2 % of total annual budget.Of this,US\$ 160,423.87 (44.8%),went to hazard mapping; US\$ 188,794.14 (40.4 %) to CBEWS; US\$ 30,061.46 (31.4 %) to mainstreaming. On a cumulative basis, total resources spent as of 31 December, 2007 is US\$ 503,814.62 or 26.4% of total.

4. IMPLEMENTATION ISSUES AND MITIGATING MEASURES

Further to the issues raised in the first report, the following additional issues were reported as of December 31, 2007:

4.1 Primary Issues:

4.1.1 Rapid turn-over of personnel, because of new developments like the revitalization of the mining industry and other causes like study leaves, resignation and rationalization (no hiring policy of the government);

4.1.2 Re-organization in NAMRIA, affecting delivery of outputs from the said agency like the base maps;

4.1.3 Commencement of the counterpart GoP multi-hazard mapping project which will add up to the work load of the existing mapping personnel. The

positive implication, however, is that availability of the 1:10,000 scale base maps will be fast tracked.

4.2 Secondary/Other Issues:

4.2.1 The need to get feedback from the local community executives (LCEs) and communities on the mapping results would mean additional load on project personnel , as well as, would require additional costs and additional tools like survey questionnaires.

4.2.2 IEC/training of Provincial Disaster Coordinating Councils (PDCCs) on the REDAS would mean the need for additional budget.

4.2.3 The recommended launching of READY in the RDCCs, followed by the launching of the CBEWS in the concerned provinces would mean need for additional budget.

4.2.4 The recommended monitoring and evaluation of post CBEWS activities of partner LGUS on a semestral basis would mean additional costs and, therefore, additional funds.

4.2.5 There is need for additional resources to defray the cost of capacity building for project personnel (training) and the sharing of experiences through conferences and seminars, the demand for which, is steadily increasing.

4.2.6 Purchase of a needed GIS software (ArcGIS) for the three (3) mapping agencies (MGB, PhiVOLCS and PAGASA) and the required upgrading of NAMRIA's existing software would need additional budget.

Recommendations to address the issues include the following:

1. Explore partnerships with the academe for the mapping component of the project;
2. Re-allocate budget to support urgent needs cited above, especially those cited in 4. 2.6; and
3. Explore funding from other sources, especially donors, to support residual costs of the additional activities identified above.



ANNEX 1

Annual Work Plan

Philippines - Manila

Award Id: 00044511

Report Date: 4/3/2007

Award Title: READY PHASE II UNDP/AUSAID CSA

Year: 2006

Project ID	Expected Outputs	Key Activities	Timeframe		Responsible Party	Planned Budget				
			Start	End		Fund	Donor	Budget Descr	Amount US\$	
00052397	READY II Multi Hazard Mapping	1 Hydro-met Hazards PAGA	6/7/06		PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	4,208.00
					PHL Office Civil Defense NDCC	30000	AUL	72200	Equipment and Furniture	4,004.00
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	140.00
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	0.00
					PHL Office Civil Defense NDCC	30000	AUL	72800	Information Technology Equipm	0.00
		2 Geological Hazards (MGB)	6/7/06		PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	3,847.77
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	120.00
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	440.00
		3 Earthquake Hazards (PHIV)	6/7/06		PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	14,155.00
					PHL Office Civil Defense NDCC	30000	AUL	72200	Equipment and Furniture	12,122.00
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	580.00
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	0.00
					PHL Office Civil Defense NDCC	30000	AUL	72800	Information Technology Equipm	5,200.00
					PHL Office Civil Defense NDCC	30000	AUL	73400	Rental & Maint of Other Equip	1,300.00
					PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	1,000.00
		4 Support to Mapping Activiti			PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	9,695.56
					PHL Office Civil Defense NDCC	30000	AUL	74200	Audio Visual&Print Prod Costs	413.00
					PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	4,800.00
TOTAL										
62,025.33										
00052471	READY II CommBasedDisasterPrep	1 CBEWS for Tsunami			PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	0.00
					PHL Office Civil Defense NDCC	30000	AUL	72200	Equipment and Furniture	0.00
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	0.00
					PHL Office Civil Defense NDCC	30000	AUL	72600	Grants	0.00
					PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	0.00
		2 CBEWS for Floods			PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	50.00
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	2,200.00
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	3,600.00
					PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	1,658.00
		3 Installation of Signages			PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	0.00
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	0.00



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			Start	End		Fund	Donor	Budget Descr	Amount US\$	
		3 Installation of Signages			PHL Office Civil Defense NDCC	30000	AUL	72600	Grants	0.00
					PHL Office Civil Defense NDCC	30000	AUL	72800	Information Technology Equipm	0.00
					PHL Office Civil Defense NDCC	30000	AUL	73400	Rental & Maint of Other Equip	0.00
					PHL Office Civil Defense NDCC	30000	AUL	74200	Audio Visual&Print Prod Costs	0.00
		4 Information Educ and Con			PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	5,520.00
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	23,436.00
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	2,400.00
					PHL Office Civil Defense NDCC	30000	AUL	73400	Rental & Maint of Other Equip	1,400.00
TOTAL										40,264.00
00052473	READY II Mainstreaming DRR	2 Strengthening NDCC OCD			PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	12,688.00
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	434.00
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	1,400.00
					PHL Office Civil Defense NDCC	30000	AUL	72800	Information Technology Equipm	3,040.00
					PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	3,340.50
					PHL Office Civil Defense NDCC	30000	AUL	75100	Facilities & Administration	76,335.84
		3 Use of REDAS Software b			PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	2,900.00
					PHL Office Civil Defense NDCC	30000	AUL	72200	Equipment and Furniture	3,800.00
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	2,557.50
					PHL Office Civil Defense NDCC	30000	AUL	72800	Information Technology Equipm	5,200.00
TOTAL										111,695.84
GRAND TOTAL										213,985.17



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			Start	End		Fund	Donor	Budget Descr	Amount US\$	
00052397	READY II Multi Hazard Mapping	1 Hydro-met Hazards PAGA	6/7/06		PHL Office Civil Defense NDCC	30000	AUL	71400	Contractual Services - Individ	3,348.21
					PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	41,250.00
					PHL Office Civil Defense NDCC	30000	AUL	72200	Equipment and Furniture	5,783.28
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	324.68
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	4,058.44
		2 Geological Hazards (MGB)	6/7/06		PHL Office Civil Defense NDCC	30000	AUL	71400	Contractual Services - Individ	1,339.29
					PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	27,869.32
					PHL Office Civil Defense NDCC	30000	AUL	72200	Equipment and Furniture	3,855.52
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	202.92
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	2,536.53
		3 Earthquake Hazards (PHIV)	6/7/06		PHL Office Civil Defense NDCC	30000	AUL	71400	Contractual Services - Individ	2,678.57
					PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	163,425.32
					PHL Office Civil Defense NDCC	30000	AUL	72200	Equipment and Furniture	58,847.40
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	669.64
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	6,696.43
					PHL Office Civil Defense NDCC	30000	AUL	72800	Information Technology Equipm	8,624.19
					PHL Office Civil Defense NDCC	30000	AUL	73400	Rental & Maint of Other Equip	1,217.53
					PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	4,017.86
		4 Support to Mapping Activiti			PHL Office Civil Defense NDCC	30000	AUL	71400	Contractual Services - Individ	2,678.57
					PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	811.69
PHL Office Civil Defense NDCC	30000				AUL	72400	Communic & Audio Visual Equip	101.46		
PHL Office Civil Defense NDCC	30000				AUL	72500	Supplies	16,976.46		
PHL Office Civil Defense NDCC	30000				AUL	74500	Miscellaneous Expenses	405.64		
TOTAL									357,719.16	
00052471	READY II CommBasedDisasterPrep	1 CBEWS for Tsunami			PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	85,310.47
					PHL Office Civil Defense NDCC	30000	AUL	72200	Equipment and Furniture	5,702.11
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	1,339.29
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	5,580.36
					PHL Office Civil Defense NDCC	30000	AUL	74200	Audio Visual&Print Prod Costs	13,392.86
					PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	13,392.86



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Project ID	Expected Outputs	Key Activities	Timeframe		Responsible Party	Planned Budget						
			Start	End		Fund	Donor	Budget Descr	Amount US\$			
		2 CBEWS for Floods			PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	89,253.02		
					PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	12,987.41		
					PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	16,584.48		
					PHL Office Civil Defense NDCC	30000	AUL	72800	Information Technology Equipm	4,383.12		
					PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	25,281.33		
		3 Installation of Signages				PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	3,409.09	
						PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	121.75	
						PHL Office Civil Defense NDCC	30000	AUL	74200	Audio Visual&Print Prod Costs	4,870.13	
		4 Information Educ and Com				PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	69,211.85	
						PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	4,667.21	
						PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	16,297.89	
						PHL Office Civil Defense NDCC	30000	AUL	74200	Audio Visual&Print Prod Costs	49,107.14	
						PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	45,939.53	
		TOTAL										466,831.90
		00052473	READY II Mainstreaming DRR	1 Mainstreaming in LocDevf			PHL Office Civil Defense NDCC	30000	AUL	71300	Local Consultants	0.00
PHL Office Civil Defense NDCC	30000						AUL	71400	Contractual Services - Individ	6,087.66		
2 Strengthening NDCC OCL						PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	47,319.40	
						PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	2,069.81	
						PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	1,217.53	
						PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	7,345.78	
						PHL Office Civil Defense NDCC	30000	AUL	71600	Travel	18,512.58	
3 Use of REDAS Software b						PHL Office Civil Defense NDCC	30000	AUL	72400	Communic & Audio Visual Equip	121.75	
						PHL Office Civil Defense NDCC	30000	AUL	72500	Supplies	3,043.83	
						PHL Office Civil Defense NDCC	30000	AUL	72800	Information Technology Equipm	7,711.04	
						PHL Office Civil Defense NDCC	30000	AUL	73400	Rental & Maint of Other Equip	608.77	
						PHL Office Civil Defense NDCC	30000	AUL	74500	Miscellaneous Expenses	1,826.30	
		PHL Office Civil Defense NDCC	30000			AUL	71600	Travel	18,512.58			
TOTAL										95,864.45		
GRAND TOTAL										920,415.50		

**ANNEX 2: SUMMARY OF TECHNICAL/PHYSICAL ACCOMPLISHMENTS
(As of December 31,2007)**

Outcome	Outputs	Targets2006	Accomp. 2006		Targets 2007	Accomp. 2007		Cum.% Accom. of total
			No.	%		No.	%	
1. Multi-hazard risks assessed for 27 provinces	4,964 Multi-hazard maps ¹ ;		No.	%		No.	%	
	27 Tech. reports ²	20 PHM ³	20 PHM	100	47 PHM 9 printed	174 ⁴ PHM; 144 FM 14 printed	370 of PHM 155 of printed	4 of PHM 3 of FM 4 of printed ⁵
		2	2	100	3	2	66	15
2. CB disaster preparedness enhanced	13 prov. flood CBEWS	2	2 ⁶	100	3	2 ⁷	66	31
	18 prov. tsunami CBEWS	2	3	150	12	4 ⁸	33	39
	54 IEC campaigns conducted for 27 provinces ⁹				3 ¹⁰	3 ¹¹	100	6
	IEC DRM mat'ls. prod./dist. to 27 prov. ¹²				20,000 posters; 50,000 pamphlets	8,556 posters 10,695 pamphlets	43 22	43 22
	346 Hazard signages in 27 prov. ¹³	34 ¹⁴	35 ¹⁵	102	96 ¹⁶	28	29	18
3. DRM mainstreaming into local dev't. processes started	2 workshops;	1	1	100	1	1	100	100
	Add'l funds mobilized		US\$478,142 ¹⁷		US 100,000 ¹⁸			
	27 REDAS training conducted	2	2	100	2	2 ¹⁹	100	15

¹ Adjusted from original based on field work & comprises 4,747 municipal maps (623 municipalities/cities x ave. 8 hazard maps/municipality/city) and 217 provincial maps @8 ave. hazard maps/province x 27 provinces, except Bohol which has 7 and the 2 Leytes with 9 hazard maps each.

² 1 technical report per province.

³ PHM refers to preliminary hazard map, approx. 25% of total effort till final printed map.

⁴ 48 maps for Bohol; 4 for Zambales & 7 for Aurora

⁵ Minimum number of printed maps will be the 217 provincial maps.

⁶ 2 provincial flood CBEWS for Surigao del Norte and Surigao del Sur

⁷ 2 CBEWS for Leyte and Southern Leyte + consultations and site inspection in Ilocos Sur.

⁸ For Bohol & Leyte, including communications test & community drills.; introduction of CBEWS in Cavite, Southern Leyte, Aurora & Pampanga.

⁹ 1 introductory IEC and 1 dissemination of results IEC per province

¹⁰ Leyte, Southern Leyte, Bohol

¹¹ For Leyte, Southern Leyte (on mapping results), coordination & preparatory IEC for Bohol.

¹² Minimum of 1 set per barangay comprising posters & pamphlets

¹³ 346 for tsunami; 100 for landslides; total=446

¹⁴ 24 tsunami; 10 landslides

¹⁵ 25 tsunami; 10 landslides

¹⁶ 72 for tsunami; 24 for landslides

¹⁷ Mobilized from the EC.

¹⁸ EC- DipECHO funds for Strategic National Action Plan with mainstreaming in planning for a sector (health) included.

¹⁹ Training conducted for Quezon (Infanta) & NEDA staff last August, 2007.

Annex 3. List of Rainfall and Water Level Stations in Leyte

	#	MUNICIPALITY	LOCATION		TYPE
			BARANGAY	DESCRIPTION	
Cluster 1	1	ORMOC CITY	Brgy. Tongonan	Barangay Hall	DRG
			City Proper	Rooftop of old City Hall	MRG
			Brgy. Tongonan	Overflow Bridge	WLG
			Brgy. Liloan	Bridge along National Highway	WLG
	2	BAYBAY CITY	Brgy. Ciabu	Residence of Brgy. Chaiman*	DRG
			Brgy. Makinhas	Bridge along National Highway	WLG
	3	LEYTE	Brgy. Parasan	Barangay Hall	DRG
	4	CAPOOCAN	San Joaquin	BARANGAY HALL	DRG
			San Joaquin	LEMON BRIDGE	WLG
	5	MERIDA	Brgy. Lundag	Barangay Hall	DRG
			Brgy. Lundag	Overflow bridge	WLG
	6	PALOMPON	Brgy. Santiago	Barangay Hall	DRG
			Brgy. San Miguel	Concrete Bridge	WLG
	7	SAN ISIDRO	Brgy. Busay	Residence of Brgy. Chaiman**	DRG
			Poblacion	Information corner near new market***	MRG
			Brgy. Basud	Conc. Post of Mini-Market	TG
	8	BATO	Poblacion	Municipal Hall Bldg.	DRG
			Anahawan	Barangay Hall	MRG
	9	INOPACAN	Anahawan	Cambanog Bridge	WLG
			Poblacion	Municipal Hall Bldg.	DRG
			Boracan Box Spillway	WLG	

	#	MUNICIPALITY	LOCATION		TYPE
			BARANGAY	DESCRIPTION	
Cluster 2	10	TACLOBAN	Salvacion	BARANGAY HALL	DRG
			Prov. Capitol	PDCC - OPERATION	DRG

			CENTER	
		Basper	PALANOG BRIDGE	WLG
11	STA. FE	Catoogan	BARANGAY HALL	MRG
		San Isidro	SAN ISIDRO BRIDGE	WLG
		Tibak	TIBAK BRIDGE	WLG
12	ALANG-ALANG	Buenavista	BUENAVISTA ELEMENTARY SCH.	DRG
		Dapdap	DAPDAP BRIDGE	WLG
		Binongtoan	MAINIT BRIDGE	WLG
13	BARUGO	Pongso	BARANGAY HALL	MRG
		Poblacion	HIMANGLOS BRIDGE	WLG
		Calingkaging	CALINGKAGING BRIDGE	WLG
14	CARIGARA	Camansi	CAMANSI ELEMENTARY SCHOOL	DRG
		Tinaguban	TINAGUBAN BRIDGE	WLG
15	BURAUEN	Poblacion	Municipal Hall Bldg.	DRG
			Daguitan Bridge	WLG
16	LA PAZ	Poblacion	Municipal Hall Bldg.	DRG
			Spillway	WLG
17	MAC ARTHUR	Poblacion	Municipal Hall Bldg.	DRG
			Osmena Bridge	WLG
18	MAHAPLAG	Poblacion	Municipal Hall Bldg.	DRG
		Polahongon	Barangay Hall	MRG
		Poblacion	Conc. Structure along Layug River	WLG
		Polahongon	Polahongon Bridge	WLG

Note: DRG – Digital Rain Gauge; MRG – Manual Rain Gauge;
WLG – Water Level Gauge; TG – Tide Gauge

DRG - Digital Rain
Gauge 17
MRG = Manual Rain
Gauge 6
WLG = Water Level
Gauge 21
TG - Tide Gauge 1

Annex 4. Training and Dry Run in Southern Leyte

Cluster	Date	City/Municipalities	Venue	No. of Pax
1	11 - 12 Sep 2007	Silago, Hinunangan, Hinundayan, Anahawan, San Juan, St. Bernard,	Hinunangan	42
2	13 - 14 Sep 2007	Pintuyan, San Francisco, Liloan, Sogod, San Ricardo, Bontoc, Tomas Oppus	Sogod	51
3	18 - 19 Sep 2007	Macrohon, Malitbog, Padre Burgos, Maasin City	Maasin City	40
		<i>Total Pax</i>		133

ANNEX 5: SUMMARY OF EXPENDITURE (FINANCIAL PERFORMANCE)

Award ID: 00044511

As of December 31, 2007

Activity	Description	Total Approved Budget	2006 Approved Budget	Aug-Dec 2006 Expenditures	2006 Delivery Rate %	2007 Approved Budget	Jan-Dec 2007 Expenditures	2007 Delivery Rate %	Delivery Rate as to Total %
Component 1 Multi Hazard Mapping									
Total Gain/Loss on Cost Sharing				(2,676.66)			(13,570.48)		
ACTIVITY1	Hydro-met Hazards PAGASA	57,580.00	8,352.00	4,221.88	50.5%	54,764.61	45,918.50	83.8%	87.1%
ACTIVITY2	Geological Hazards MGB	178,820.00	4,407.77	4,535.17	102.9%	35,803.58	16,652.61	46.5%	11.8%
					Some of the travel expenses of Activity 3 was charged in this activity.				
ACTIVITY3	Earthquake Hazards PHIVOLCS	438,244.00	34,357.00	7,984.62	23.2%	246,176.94	92,973.55	37.8%	23.0%
ACTIVITY4	Support to Mapping Activities	90,000.00	14,908.56	10,466.54	70.2%	20,974.02	18,449.69	88.0%	32.1%
Total for Component 1		764,644.00	62,025.33	24,531.55	39.6%	357,719.15	160,423.87	44.8%	24.2%
Component 2 Community Based Disaster Preparedness									
Total Gain/Loss on Cost Sharing				(737.67)			(14,047.97)		
ACTIVITY1	Comm. Based Early Warning System for Tsunami	122,872.00	0.00	0.00	0.0%	124,717.95	47,484.76	38.1%	38.6%
ACTIVITY2	CBEWS for Floods	300,666.00	7,508.00	14,676.72	195.5%	148,489.36	70,815.58	47.7%	28.4%
					Most of the expenses under this component were lumped in this activity, instead of charging it to Activity 1 and 3.				
ACTIVITY3	Installation of Signages	74,400.00	0.00	0.00	0.0%	8,400.97	0.00	0.0%	0.0%
ACTIVITY4	Information, Education & Communication	349,362.00	32,756.00	90.83	0.3%	185,223.62	84,541.77	45.6%	24.2%
Total for Component 2		847,300.00	40,264.00	14,029.88	34.8%	466,831.90	188,794.14	40.4%	23.9%
Component 3 Mainstreaming Disaster Risk Reduction									
Total Gain/Loss on Cost Sharing				(682.07)			(3,081.72)		
ACTIVITY1	Mainstreaming in Local Devt Plans	6,000.00	0.00	56.64	-	0.00	0.00	0.0%	0.9%
ACTIVITY2	Strengthening NDCC-OCD	63,571.00	20,902.50	10,263.31	49.1%	64,040.18	26,009.84	40.6%	57.1%
ACTIVITY3	Use of REDAS Software	74,210.00	14,457.50	0.00	-	31,824.27	7,133.34	22.4%	9.6%
Total for Component 3		143,781.00	35,360.00	9,637.88	27.3%	95,864.45	30,061.46	31.4%	27.6%
UNDP GMS (8%) in USD		152,672.00	76,335.84	76,335.84	100.0%	0.00	0.00	0.0%	50.0%
Grand Total for READY II Programme		1,908,397.00	213,985.17	124,535.15	58.2%	920,415.50	379,279.47	41.2%	26.4%