

CONSOLIDATED BUREAU PHYSICAL AND FINANCIAL ACCOMPLISHMENT REPORT
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
For the period July - September 2013

BUREAU : ECOSYSTEMS RESEARCH AND DEVELOPMENT BUREAU

SECTOR : RESEARCH

PROGRAM/PROJECT/ACTIVITY/ CODE	MFO	OVI	PERFORMANCE MEASURE	TARGET		ACCOM		% ACCOM		ALLOTTED		OBLIGATED		DISBURSED		% UTILIZATION		REMARKS
				THIS QTR	TO DATE	THIS QTR	TO DATE	THIS QTR	TO DATE	THIS QTR	TO DATE	THIS QTR	TO DATE	THIS QTR	TO DATE	THIS QTR	TO DATE	
GAAS										4,293	26,040	4,293	26,040	4,293	26,040	100%	100%	
RLIP Salary adjustments										1,581	4,743	1,581	4,743	1,581	4,743	100%	100%	
PEI																		
A.II Support to Operations																		
a) Formulation and monitoring of ENR Sector Policies, Plans, Programs and Projects	MFO1	1.1								1,192	3,163	1,192	3,163	1,192	3,163	100%	100%	
1. Formulate/Update and adoption of RDE Framework			RDE Framework updated (no.) RDE Framework adopted (no.)	1	1	1	1	100%	100%									DAO 2012-10 on the adoption of the ENR RDE Framework was already signed and issued by the Secretary on 28 December 2012. Said Framework is now being adopted by the DENR Research Sector.
2. Conduct planning and reprogramming workshop with DENR Central Office and regional ERDS			ERDB Budget Proposal FY 2014 prepared (no.) ERDB Work & Financial Plan for FY 2014 prepared (no.) ERDS Regional Budget Proposal evaluated & consolidated (no.) ERDS Work & Financial Plans evaluated & consolidated (no.) Planning & reprogramming workshop/meetings conducted/ attended (no.)		1		1		100%									ERDB Budget Proposal FY 2014 was submitted in March 2013. Target activity for 4th quarter. ERDS regional budget proposal was evaluated and consolidated during the period. Target activity for 4th quarter. 1. Briefing with DBM Focal Person at DBM on Feb 7, 2013. 2. Budget Preparation for CY 2014 at DENR on March 01, 2013. 3. Finalization of Budget Proposal for CY 2014 at Timberland Hotel on March 12-13, 2013. 4. April 5, 2013 - DENR-CSO Sectoral/thematic Budget Dialogue at DENR Central Office. 5. April 10, 2013 - National Conference on Citizen's Participation in the Crafting of the 2014 DENR Budget at DENE Social Hall 6. May 8, 2013 - Meeting at DENR regarding the National Budget Memorandum No. 118: Budget Priorities Framework in the preparation of the Budget Proposals for 2014-2016 7. August 5-7, 2013- FY 2013 Mid Year Budget Review and Pre-Planning Workshop/Consultation for FY 2014 at Lima Park Hotel, Malvar, Batangas 8. Sept. 3-4, 2013 -FY 2014 Planning guidelines Workshop, Cocoon Hotel, Quezon City
3. Conduct of Annual In-House Review of Completed and ongoing RDE programs/projects			AIHR of completed and ongoing programs/projects conducted (no.)	1	16	1	16	100%	100%									Inhouse Reviews of ERDS regional offices were conducted within the 2nd quarter period except for Region 2 which was conducted only last 23 August 2013.

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4. Attend local/global fora in line with the country's/agency's commitments to various multilateral environmental agreements			meetings/fora/symposia/conferences attended/participated (no.)	2	6	3	8	150%	133%									1. Round Table Discussion on the Development of Projects in relation to Millennium Development Goals, Traders Hotel Jan. 17, 2013 2. FY 2014 Priority Thrusts and Programs - DENR, Quezon City, Jan. 18, 2013 3. PCARRD Governing Council Meeting, DOST, Feb. 07, 2013 4. Philippine Development Plan for CC Adaptation and Mitigation 1st Planning Committee TWG meeting cum Workshop April 16, 2013 5. Training on Carbon Accounting in Mangrove Areas - Bangkok, Thailand, April 23-27, 2013 6. ICRAP R & D Workshop Btwiser - DENR, July 17, 2013 7. Strategic Planning Workshop, NRCP, Tagaytay City, August 3, 2013 8. 2nd National Conference on Climate Change, Traders Hotel, Sept. 26, 2013
			membership to scientific and technical committees/organizations participated (no.)	2	6	2	7	100%	117%									
5. Provision legislative assistance to Congress		1.4	assistance provided to Congress (no.)	var	var	var	var											No letter request for technical assistance was received for the period.
b) Data management including systems development and maintenance	MFO1	1.2								380	1,154	280	854	280	854	100%	100%	
1. Generate and update RDE databases, information/technologies and statistics			ENR-RDE Information systems developed/enhanced (no.)	4	4	4	4	100%	100%									Ongoing activity. ERDB enhanced/maintained four (4) information systems. 1. ERDIS - ENR RDE Information System (study profile, study leader profile, accomplishments, abstracts) 2. ETGIS - ERDB Technology Generated Information System (Technology profile, TAP) 3. LRIS - Library Resources Information System Catalogue of books, journals, and other reference materials. 4. DTS - Document Tracking system

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2. Updating, maintenance and management of websites and LAN			Website updated/maintained (no.) Internet connection via DSL maintained (no.)	1 1	1 1	1 1	1 1	100% 100%	100% 100%									Ongoing activity. Regular updating of the website and the installation of IP address
3. Review and validation of reports on ENR statistics			Sectoral statistics reviewed/consolidated and validated (no. of regions)	17	34	17	34	100%	100%									Consolidated Statistical Reports of ERDB and ERDS for 3rd and 4th quarters CY 2012 and 1st and 2nd quarters CY 2013 were already submitted to DENR on 15 March 2013 and 15 August 2013, respectively. Target activity for 4th quarter.
c) Production and dissemination of technical popular materials in the conservation and development of natural resources including environmental education	MFO1	1.3	Statistical Month Celebration participated (no.) DENR Statistical Committee Meetings attended (no.)	var	var	1	3			2,923	9,397	2,923	9,397	2,766	8,896	95%	95%	February 6, 2013 at MGB, North Avenue, Quezon City June 04, 2013 at Land Management Bureau (LMB) September 30, 2013 at DENR, Quezon City
a) Packaging and publication of ENR generated technologies/information (technical and popular publications)			ENR Technical and Popular publications packaged and produced (no.) Sylvatrop (no. copies)		1/700 copies		1/700 copies		100%									Sylvatrop Vol. 22 was produced with 700 copies. This was distributed to different agencies, attached bureaus and ERDB clientele. As of September 30, The Board is still working to generate three (3) more articles to complete this year's issue of Sylvatrop (Sylvatrop Vol. 23) which is targeted to be produced. in 700 copies by 4th quarter.
			Canopy (no. copies)	1 (draft layout & editing etc.		1 (draft layout & editing etc.												Continuing activity The following articles were laid out for CANOPY International Volume 39 (2013 issue). 1. Gender role assessment in the flood prone barangays in Pinukpuk, Kalinga, Apayao 2. Social perspective in watershed management 3. Waste biomass resource statistics in the Philippines 4. Bamboos: wealth in the Visayan island of Region 7 5. Saving money by reducing carbon footprint 6. Pest-free seedlings for a greener Philippines 7. Earth watch The 16-page publication will be ready for submission to the printing press by October 2013 for final printing and reproduction of 2000 copies.
			RISE (new issues) (reprinting of old issues)	1 1	3 2	1 1	3 2	- 100%	- 100%									Continuing activity Issue for 2013 was back to author for revision. Will facilitate the editing and finalization of the issue and expected date of completion is middle of November 2013. Reprinting of Vol. 25 No. 1 (Old issue), a compilation of Lumbang, Almaciga, Akle, Bagtikan, and white Lauan was done.

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			ERDB Newsletter (no. of copies)	1/200 copies	3/600 copies	1/200 copies	3/600 copies	100%	100%									1st, 2nd and 3rd Quarter ERDB Newsletter were produced in 200 copies each.
			ERDB Annual Report (CY 2012) (no. of copies)	1/200 copies	1/200 copies	1/200 copies	1/200 copies	100%	100%									The ERDB Annual Report CY 2012 was already printed in 200 copies. However, it was returned to the printing press due to the problem in the quality of binding and stamping. It is expected to be delivered back to ERDB 3rd week of October 2013.
			Audio Visual Services - Major activities documented	4	12	5	14	125%	117%									Major activities documented as of the period: 1. World Water Day Celebration in Mall of Asia (MOA), Pasay City 2. 104th Foundation anniversary of College of Agriculture. 3. Kick Off Day of Women's Month Celebration. 4. Gender Sensitivity Training 5. First National Peace Jamboree- Luzon 6. 2nd Forum on Women Leaders in Biodiversity Conservation April 14-15, 2013, DENR Quezon City 7. Training on Writing Technical Articles for Scientific Journals May 14-16, 2013, BSP, Makiling Los Baños, Laguna 8. Orientation on Selection and Placement Guidelines (Luzon Group) June 18-22, 2013, La Breza Hotel, Quezon City 9. Skills Enhancement on Production of IEC Materials for ENR June 25-28, 2013, Pontefino Hotel, Batangas City 10. Documentation of ERDS Region 8's CBFM-CARP area in villa Consuelo, Biliran, Leyte, August 13-15, 2013. 11. "Writeshop on the Tools and procedures for Benchmarking NGP" September 2, 2013, ERDB Auditorium 12. Orientation on the Rationalization Plan for PENR Officers, September 6-7, 2013, Holiday Inn, Clark, Pampanga. 13. Symposium Workshop on "Survey of Bamboo Stands and Establishment of a Natural Database of Economically Improved Bamboo Resources in the Philippines, Sept. 10-13, 2013. El Cielito Hotel, Jamboree Site. Mt. Makiling, Los Baños, Laguna. 14. Research Sector RDE Planning Workshop, Sept. 17-19, 2013, Lima Hotel, Malvar, Batangas.
b) Maintenance of ENR Library			ENR Library maintained (no.)	1	1	1	1	100%	100%									Released one (1) acquisition list for the period for distribution to all divisions and the 16 DENR regional offices. A total of 651 important articles from newspapers were clipped, indexed and compiled in album form. Encoded and filed 358 new index card of periodicals.
d) Legal Services										184	589	214	501	162	385	76%	77%	
1. Review of MOAs/MOUs/contracts/policies, etc	MFO1		MOAs/MOUs/contracts/policies reviewed (no.)	100	300	154	409	154%	136%									One hundred fifty four (154) Job contracts and Contracts of Services were reviewed during the period.

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III. Operations																		
d.1 Ecosystems Research and Development																		
R and D on Climate Change																		
Subprogram I. Climate Change Adaptation																		
1. Adaptation Strategies to Climate change Impacts in Main Island Coastlines and Small Island Foreshore Areas	MFO1	1.2	Dataset gathered/analyzed/integrated (no.) - social component (coping mechanisms) - biophysical component (height, diameter, benthos, soil property and soil erosion)	1	2	1	2	100%	100%	31,575	107,792	32,669	107,590	29,566	98,095	91%	91%	Continuing activity Data gathering on the social component of the project in Regions 2, 3, 5, 7, 8, 9, 10, and 13) was completed during the period. Terminal reports from the regional counterparts will be collected for inclusion on the final technical report. For biophysical component, monitoring activities on the characterization of the mangrove ecosystem including soil loss was carried out in Regions 3 and 13. This was undertaken to determine if there were changes on the growth pattern of mangrove species and benthic population. In both regions, pagatpat has the highest importance value over Bungalon. In Region 3, the average landward erosion reading was 24.07 cm. compared to 25.39 cm and 24.98 cm in the middle ad seaward portion, respectively. While in Region 13, landward, middle and seaward average soil erosion was 27.44 cm, 20.37 cm and 20.93 cm, respectively.
			Technical information packaged (no.) - coping mechanisms of communities to climate change impacts	1	1	1	1	75%	75%									Continuing activity Packaging of information was already started and is expected to be completed 100% after all the data gathered have been completely analyzed and integrated by 4th quarter. For social component: Collation, integration and preparation of final reports for Regions 2, 3, 5, 7, 8, 9, 10, ad 13 were 75% completed.
2. Wildlife adaptation to climate change in selected conservation priority areas (CPA) in the Philippines			Baseline data on conservation status of 2 priority species of wildfauna in 3 CPAS gathered/analyzed (no.) - biological - physical - social	3	3	3	3	100%	100%									Continuing activity The three (3) baseline data sets were already gathered in Regions 5 and 7 (Caramoan and Cebu) 1. biological 2. physical 3. social
Sub-program 2 - Climate Change Mitigation																		
3. Estimation of carbon sequestration rates and carbon density of forest plantation species in the Philippines			Regional data set analyzed and integrated (no.)	2	2	2	2	100%	100%									Continuing activity A total of 90 remeasurements of PSPs in Regions 9 and 13 were conducted during the period. All trees were remeasured measured as to basal diameter, diameter at breast height and tree height. Each established plot was photo documented and regional database was updated.
			Technical information packaged (no.) - sequestration rates and carbon density of 5 plantation species maps covering 5 regions															Target activity for 4th quarter

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4. Biomass and carbon sequestration of four (4) economically important bamboo species in the Philippines			Data set gathered and analyzed (no.) - Growth (base diameter and total height) - Weight of leaves, branches & poles	2	2	2	2	100%	100%									Continuing activity The empirical data/information gathered from Regions 10 and 13 during the quarter will give more accurate lead to the biomass and carbon sequestration functions for more efficient and reliable estimation of the two (2) species of commercial bamboos (K. tinik and G. bamboo). Selected laboratory samples from the first batch (Regs. 1, 3 and 6) were submitted to IRRI Analytical Laboratory for carbon content analysis. Second batch (Regs. 7, 10 and 13) of selected laboratory samples is expected to be ready by 4th quarter for analysis.	
			Aboveground biomass prediction equation developed (no) - per bamboo species	2	2	-	-	-	-										Continuing activity Development of the aboveground biomass prediction equation and determination of carbon contents for Kawayan tinik and Giant bamboo is expected to be completed by 4th quarter 2013, after the needed datasets were gathered and analyzed. These data could give more accurate lead to the reliable estimation of the biomass and carbon sequestration functions of the commercial bamboos. Prior to this activity, data collection were completed as scheduled. Samples are brought to ERDB Laboratory for oven dry weight determination, and to be prepared for submission to IRRI for carbon content analysis.
			Carbon content (%) - per bamboo species	2	2	-	-	-	-										Target activity for 4th quarter.
			Technical information packaged (no) - biomass and carbon contents of 2 bamboo species																
5. Greenhouse gas (GHG) determination on mangrove soils			Data sets gathered and analyzed (no.) - vegetation/plant community - amount/volume of GHG	2	2	2	2	100%	100%									Continuing activity. During the period two (2) sites selected for the gathering of data were SBMA and Botolan, Zambales in Region 3. Data gathering/analysis on vegetation for the two sites was already started. During the period, the activities focused for the in-situ collection of gas samples from mangrove soils using the static closed chambers. Aside from gas, initial vegetation on plots, soil samples were collected in both sites for pH, N, P, K, OM, bulk density and moisture content determination. The data and samples are still being analyzed. Likewise, most thorough characterization of mangrove stand in both sites will be undertaken in the next quarter.	
Sub-program 3 - Climate Change Disaster Risk Reduction																			
6. Vulnerability assessment of selected watersheds with coastal areas in the Philippines to climate change			Biophysical and hydrological assessments conducted (no.)	5	5	5	5	100%	100%									Continuing activity Malitobog-Maridagao watershed (R12); Nayom watershed (R3); Tagudin-Atok watershed (R1/CAR); Sta. Cruz watershed (R4); and Busuanga watershed (R4B) were visited during the period for the conduct of biophysical and hydrological assessments and gender assessment which include reconnaissance survey, land use verification, sediment sampling, wet season hydrological measurements and secondary data gathering on political boundaries and socio- economic profile.	

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7. Impacts of climate change on the extent and magnitude of flooding and landslides in selected major watersheds			Maps validated/generated (no.)	30	75	30	75	100%	100%									Continuing activity Provision of technical assistance was continued re: preparation and finalization of base maps which included the digitization of topographic maps.
			Reports reviewed/integrated (no.)	9	9	9	9	100%	100%									Continuing activity As of the period, four (4) regions (Regs. 2, 6, 10, and 11) were visited for field monitoring, mentoring and supervision. All the other regions (Regs. 5,7, 8, 9) were monitored through electronic communications such as e-mail, phone calls and text messages exchanges.
			Vulnerability assessment reports prepared (no) - w/ maps															Target activity for 4th quarter
			Report reviewed (no)	1	1	1	1	100%	100%									Reviewed report submitted by Region 3.
			Technical information packaged (no) - impacts of climate change on the extent and magnitude of flooding & water resources in selected major watersheds	1	1	1	1	40%	40%									Continuing activity Technical information on the impact of climate change on the extent and magnitude of flooding and water availability in different watersheds under varying climatic types is in progress and is. 40% completed as of the period. Only Regs. CAR, 1, 2 and 3 have submitted their accomplishment reports. Constant follow up with Regions 4B, 9, 10 and 11 will be done through e-mails, telephone calls, text messages etc. to facilitate submission of the reports.
8. Social impacts of sea level rise on coastal communities			Data set gathered and analyzed (no.) - Social parameters (demographic, economic, and psychosociological)	1	1	1	1	100%	100%									Interview schedule was finalized after the pre-testing done in San Antonio, Bay, Laguna. Household interviews were likewise conducted in the following sites: - Sitos of Sta. Clara, Looban and Centro, Brgy. Garreta, Palaui, Zambales - Little Baguio I, II And Duhok, Bgy. Bani, Masinloc - Sitio Galagala, Brgy. Binabalian, Candelaria Data from household interviews in Brgys Garreta, Palaui, Masinloc, Candelaria and Sta. Cruz were encoded/decoded for analysis.
			Technical Report packaged (no.) - Baseline information on the impact of sea level rise	1	1	1	1	25%	25%									As of the period, the survey of the four (4) coastal communities in Palawig, Masinloc, Candelaria and Sta. Cruz was already completed so with the tabulation of data (Palawig, Candelaria and Masinloc). Mapping of the mark location of the surveyed households were also done. Will facilitate the completion of the technical report by end of December 2013.
9. Survey of bamboo stands and establishment of national database of economically important bamboo resources in the Philippines			Regional reports reviewed/integrated (no.)	15	15	15	15	100%	100%									Continuing activity 1st, 2nd and 3rd quarter narrative reports of the regions were reviewed and integrated..
			National workshop conducted (no)	1	1	1	1	100%	100%									A technical symposium cum workshop on survey of bamboo stands was conducted on 10-13 September 2013 at BP International Makiling, Jamboree Site, Loss Baños, Laguna where regional accomplishments for 2011-2013 were presented.

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			National data base (no) - database w/ GIS maps on bamboo resources	1	1	1	1	90%	90%									Review and maintenance of regional database was continued and development of a national databases of each species of bamboo and production of GIS maps at the national level is in progress and 90% completed as of the period. Database for the bamboo species generated showed the date bamboo stands were surveyed, exact location (GPS readings, region, province, municipality and barangay) owner/manager, natural or planted, elevation, slope, aspect, soil depth in centimeter (cm), soil texture and soil pH. To date, the total area of 4 priority bamboo stands surveyed by the 15 regions 6,394.39 hectares with 638,508 clumps and 23,900,342 culms.
10.			Trial plantations maintained & protected (no. & has.) Medicinal	6	6	6	6	100%	100%									Ongoing activity Both plantation sites, 3 hectares each in Brgy. Mamala, Sariaya, Quezon and Brgy. Mahipon, Cavinti, Laguna planted with 2,700 seedlings of 6 medicinal species such as banaba, bignai, dita, igyo, kamachile and lipote were maintained by means of ring weeding (1-m radius).
			Data sets gathered and analyzed (no.) - Medicinal (diameter, height and survival)	3	3	3	3	100%	100%									Continuing activity A quarterly measurements of diameter and height was done in all outplanted seedlings in both plantation sites. Height and diameter increment of the outplanted 6 species of medicinal seedlings after 21 months of planting were gathered and computed.
11.			Pilot fuelwood plantation monitored (no.)	3	3	3	3	75%	75%									Continuing activity Only Regions 6 and 7 have established their fuelwood plantation and are now on the site preparation activities for the additional area of the mini experimental units. Region 1 had started the establishment of a 2 ha. plantation area. As a whole, the activity is only 75% completed as of the period.
			Regional reports reviewed/integrated (no.)	3	9	-	-	-	-									Still waiting for the submission of the regional reports for integration. Constant follow up with the regions involved thru phone calls, SMS and e-mail will be done to facilitate the submission of the reports.
12.			Regional reports reviewed, integrated and analyzed (no.)	3	9	3	6	100%	67%									Continuing activity 1st, 2nd and 3rd quarter accomplishment reports submitted by Regions 5, 7 and 8 were reviewed and integrated.
13.			Bamboo clumps assessed/remeasured (no.)	120	120	120	120	100%	100%									Recent data collection was done in May 2013. Gathered data on Kawayan tinik and giant bamboo were computed with the following results: - Average no. of culms per clump : k. tinik- 26; giant bamboo-13 - Average height (m.): K. tinik- 18.36; G. bamboo-21.68 - Average diameter (cm): K. tinik-11.75; G. bamboo- 9.89 Next assessment and remeasurement activities will be done in November.

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Sub-prog 2: Protected Areas and Biodiversity																			
14. Bioecological characteristics of migratory water birds in priority wetlands in relation to climate change			Datasets gathered and analyzed (no.) -Biological (species diversity indices and macrobenthic)	3	3	3	3	100%	100%									Waterbird count and macrobenthic sampling was conducted during the peak migration season in three sites namely; LAPPACHEA, Candaba wetlands and Naujan Lake. The most abundant species were gastropods, barnacle, bivalves, insects, fish and crustaceans.	
			Database established (no) - migratory waterbirds w/ wetland profile	3	3	3	3	100%	100%									Database for 3 sites was already started. As of the period, a total of 7,494 individual species were identified in 3 sites. It belongs to 32 species and 9 families.	
			IEC conducted (no) - passive surveillance of migratory water birds (no.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Target activity for 4th quarter.
			Policy recommendations developed (no) - management options for migratory bird conservation and wetland management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Target activity for 4th quarter.
15. Formulation of ecotourism tracking tool in the Philippines			Ecotourism Tracking Tool drafted (no.)		1		1		100%									Draft ecotourism tracking tool was 100 completed as of the period.	
			Revised ecotourism tracking tool validated (no.)	1	1	1	1	90%	90%									The project focuses in the pre-testing and validating the Draft Ecotourism Tracking tool in Regions 6, 9, and 11. So far, this tracking tool appeared applicable in general and can be easily used in the future by the DOT and the DENR. However, some questions needed modification and rewording to be more suitable to other ecotourism sites and/or easier to administer. There are potential parameters that maybe included in the tracking tool which are as follows: a) safety and security of the tourists; b) legislation in support from the LGU; c) continuous training for technical staff and frontline service providers, d) availability of social enterprise in the area, and e) Presence of tourism/directional signage leading to and within the site.	
16. In situ conservation of rare and endangered species in strict protection zone			Integrated In-situ management plan generated for 3 sites (no.)	1	1	-	-	-	-									Continuing activity Continued the data gathering on identifying premium, endangered and IAS species within the strict protection zone as basis in the preparation of the Integrated Management Plan which is targeted in 4th quarter as a final output for the project.	
			Policy recommendation on in-situ conservation at protected zone prepared (no.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Target activity for 4th quarter.	
17. Biosafety measures for the protection of biodiversity against the potential impacts of products of modern biotechnology or genetically modified organisms (GMOs)			Impacts of GMOs on the environment analyzed (no)	4	4	2	2	50%	50%									Continuing Activity Data on site characterization and soil fertility were already processed. Analysis on soil anthropods and profiling of weeds are still in progress. Only Region 10 completed the 4 datasets. The 3 regions (Regions 2, 6 and 12) are not yet done with their field experiment due to different periods of planting season in the regions. Close monitoring on the project progress for these regions will be imposed to assure that the targets will be accomplished.	

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18. Biosecurity measures for the protection of biodiversity from invasive alien species			Harmonized/joint guidelines for environmental assessment of GMOs developed (no.)	1	1	0.5	0.5	50%	50%									Meeting with DA was scheduled this October to finalize the joint DA-DENR guidelines on the conduct of environmental risk assessment and monitoring of plants derived from the use of modern biotechnology for release into the environment before submission to DENR PTWG. This is expected to be completed within 4th quarter.
			Improved procedures for the environmental risk assessment of GMOs drafted (no.)	-	-	-	-	-	-									Target activity for 4th quarter.
			National database developed (no.)	1	1	1	1	100%	100%									Continuing activity ERDB project management team undertook field validation activities and in some instances undertook IAS assessment together with regional counterparts in some sites. Validation of IAS matrix submitted by the regions is being done before consolidation on a national scale by 4th quarter. As of the period, IAS National Database was already developed however, only available within the ERDB portal only. A total of 64 species were already encoded in the database.
			Regional profile on the presence and research documentation of IAS reviewed and validated per region (no.)	8	16	8	16	100%	100%									As of the period, the regional IAS profiles were already completed. A total of 70 species were already identified as potentially harmful and invasive alien species.
			Policy inputs generated for the National IAS Framework and Strategy (no.)	2	2	2	2	100%	100%									Already made inputs on the policy for the National IAS framework and strategy during the series of meetings of TWG members. Target policy inputs for the year (4) are expected to be completed 100% by end of 4th quarter.
Sub-prog 3: Coastal, Marine and Water Resources																		
19. Development of classification systems for abandoned fishponds under Fishpond Lease Agreement (FLA)			Datasets gathered/ analyzed (no. and types) - social and biophysical parameters	2	2	2	2	100%	100%									Continuing activity Field data collection at Infanta, Quezon for wet season were already done in three (3) abandoned fishponds namely: Lauro Fishponds and Fishponds in Antikin. Field data collection at Lian, Batangas were also conducted. Biophysical assessment were done except for macrobenthos assessment due to the typhoon Labuyo which carry large volume of water to the fishponds forbidding the project to collect macrobenthos. It will take weeks or even months for the water to subside during low tide. The other fishpond were again operationalized for family consumption. Socio-economic interviews were already completed in Lian, Batangas where thirty (30) respondents were interviewed. For Infanta, Quezon, only twenty eight (28) respondents were interviewed because those are allocated for tenants and fishponds caretakers. However, in the case of Lauro fishpond, the caretakers were no longer a residents in Infanta, Quezon.
20. Hydro-meteorological assessment of rivers being utilized as source of hydro-power irrigation and domestic water supply			Datasets gathered and analyzed (no.) - Streamflow - Rainfall - Temperature	3	3	3	3	75%	75%									Continuing Activity Regions 2 and 4A have submitted the complete datasets and analysis is ongoing. Constant follow up through phone, SMS and e-mail will be done with other regions involved (Regs. CAR and 5) to facilitate the submission of the required reports.

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21. Riparian zone assessment for rehabilitation protocol to minimize erosion/ sedimentation and enhance water quality			Hydromet gauging systems maintained and operationalized in watershed (no.) (joint activity with ERDS)	4	4	4	4	100%	100%									Hydromet gauging systems established in 4 watersheds are being maintained.
			Hydromet software on four (4) watersheds developed (no.)	1	1	1	1	100%	100%									Continuing activity The hydromet database system was already installed in Regions CAR and 4A. Installation for Regions 2 and 5 is expected to be completed by end of 4th quarter.
			Data sets collected, monitored and analyzed per region (no.)	3 75%	3 75%	3 67%	3 67%	67%	67%									All regions have submitted the soil erosion and rainfall data as of the period but for the period January to July only. Constant follow-up will be done to all regions through phone, SMS, and e-mail to facilitate the submission of the complete datasets required.
			Protocol developed on best adaptive species for restoration and management of riparian zone (no.)	1	1	1	1	50%	50%									Outline of the manual as well as the data to be imputed were prepared and is 50% completed as of the period..
22. Determination of appropriate water harvesting technology and its contribution in upland areas			IEC materials drafted/ prepared (no.)	-	-	-	-	-	-									Target activity for 4th quarter.
			Available indigenous/ introduced water harvesting techniques in the region documented (no.)	1	5	1	5	100%	100%									Continuing Activity Coordination with PENRO Zamboanga City (Region 9), RTDs of Regions 2 and 10, Regional DA and Local Water District (Reg 7) and Region 13 were conducted in relation to the documentation of existing water technologies in their respective regions. As of the period, four (4) regions were visited and nine (9) water harvesting technologies were documented as follows: 1. Region 2 - Springbox - Mt. Iraya, Batanes - Rooftop RW harvesting - Basco, Batanes - Hillslopes RWH - Tucon, Basco, Batanes 2. Region 7 - Tank Harvesting - Siliman University - Small Farm Reservoir - Siaton, Negros Oriental, Ubay, Bohol - Small Water Impounding Project - Dauin, Negros Oriental Malinao, Bohol - Diversion Canal - Brgy. Ilaya, Dapitan - Rooftop rainwater harvesting - San Carlos University, Cebu 3. Region 9 - Irrigation Canal - Sindanga, Zamboanga del Norte 4. Region 10 - Small Water Impounding Dam - Manticao, Misamis, Oriental 5. Region 13 - Small water impounding projects (6) - Brgys. Ginabsan, Macalang, Sangay, Buenavista, Agusan del Norte; Bayugan, Brgy. Bew Visayas, Triento; Sta. Josefa, Agusan del Sur - Spring water - Bacuag, Surigao del Norte
		Information on water harvesting techniques/ practices packaged (no.)	-	-	-	-	-	-	-									Target activity for 4th quarter.

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<i>Sub-prog 4: Mines, Degraded Areas and Lands</i>																		
23.			Improved rehabilitation strategies, schemes and technologies for areas adversely affected by mining activities and highly vulnerable and severely eroded areas in watersheds	Regional reports reviewed/integrated (no.)	6 1	18 3	5 1	17 3	83% 100%	94% 100%								Region 13 was not able to submit their report during the period. Regular coordination will be done with the concerned study leader in Region 13 to facilitate the submission of the report. Review and integration of the submitted reports were done.
24.			Application of mycorrhiza and other soil amelioration in improving reforestation and agroforestry in the uplands	Regional reports reviewed/integrated (no)	10 1	30 3	9 1	29 3	90% 100%	97% 100%								All implementing regions except Region 1 have submitted their reports on the deadline set. Constant communication through e-mails, calls and SMS, with the study leader of Region 1 will be done to facilitate the submission of the report. Review and integration of the reports submitted were done.
25.			Alternative rehabilitation technology in limestone areas using direct seeding approach.	Direct seeding trial area established (no.)	2	2	2	2	100%	100%								Two (2) direct seeding trial areas in Holcim Bulacan and Bohol targeted during the period were already established. All target activities to include sowing and planting techniques completed by 75% and 50%, respectively. Data collection has already been started in the two sites.
				Dataset gathered and analyzed (no.) - Biological * survival * growth * biomass	-	-	-	-	-	-								Target activity for 4th quarter.
				Direct seeding technology developed for non-metallic mined-out area	-	-	-	-	-	-								Target activity for 4th quarter.
26.			Development of criteria/indicators for the management and disposition of patrimonial properties	Set of criteria and indicators developed (Joint with ERDS)(no.)	3	3	-	-	-	-								Regs. 1 and 3 carried out their work on agricultural patrimonial properties; regions NCR and 7 on commercial/industrial patrimonial properties while Regions CAR and 10 worked on residential properties. The different circumstances surrounding the use, management and/or disposition of the land based on assets were noted in the course of the inquiry. The data and information will be processed in a workshop early 4th quarter to determine the final set of criteria and indicators for the use, disposition, and management of the properties that will be included in the draft policy that will be developed.
				Draft policy recommendation prepared (no)	-	-	-	-	-	-								Target activity for 4th quarter.

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R and D Program on Environmental Management and Pollution Control			27. Development of bioremediation for water pollution control in selected rivers															Continuing activity Socio-demographic and environmental awareness survey was conducted in riparian communities of Lapad River, Sta. Cruz, Laguna and Calambayugan River . Biological (macrobenthos, flora and avi-fauna), physico- chemical, and bacteriological (coliform test) characterizations were also conducted.	
			Indigenous microorganisms tested for bioremediation of polluted rivers (no.) - Laboratory condition	1	3	1	2	100%	67%										Laboratory screening of isolated bacteria is composed of two (2) experiments - determination of microbial tolerance to high concentration of heavy metals and absorption of heavy metals by bacteria (biosorption). <i>Heavy metal tolerance</i> The bacterial isolates were subjected to heavy metal tolerance experiment as initial screening for its bioremediation capabilities. The significance of this experiment relies on the scientific findings that bacteria used in bioremediation are tolerant to high amounts of toxic materials such as chlorinated solvents, petroleum and heavy metals. At the end of the experiment, the tolerance to varying concentrations of heavy metals will be determined. An estimate of isolates limit of heavy metal tolerance will also be determined. <i>Biosorption Assay</i> Two (2) isolates, MMO2 and SER, were selected for the biosorption assay. The selection is based on the ability to grow at high concentration in both Chromium and Mercury. The main objective of the biosorption assay is to determine the ability of the isolates to 'bisorb' heavy metals from the solution. Target activity for 4th quarter.
			Protocols drafted (no.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28. Rehabilitation strategies for important tree species in parks and roadside plantations			Training conducted (no) - Personnel trained(4 per region)		1 8		2 8		200% 100%									Trainings on tree rehabilitation strategies were conducted in Palawan Wildlife Rescue and Conservation Center (PWRCC) (Region 4B) and Misamis Oriental Provincial Capitol and ERDS-Region 10 compound (Region 10). Priority unhealthy trees in the mentioned sites were rehabilitated through surgery and sanitation pruning as part and parcel of environmental management program. Out of the 50-100 trees diagnosed, PWRCC performed tree surgery to a Talisai tree and proper pruning to a Calmito, Agoho and Rain trees. Likewise, tree surgery was also done to a Narra and Mangliya trees with multiple/active cavities in Misamis Oriental Provincial Capitol and ERDS Region 10 compound. More than the eight (8) target partakers from Regions 4B and 10 were mentored in the actual rehabilitation strategies applied per tree with various degrees of decay and crown problem.	

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29. Assessment of ecological solid waste management with emphasis on material recovery facility (MRF) strategies in selected municipalities for environmental conservation and protection			Post tree surgery monitored (joint activity with ERDS) (no.)	10	20	10	20	100%	100%									Rehabilitated trees in Malolos, Bulacan; Benguet State University (BSU, Baguio City); Iloilo Provincial Capitol, Plaza Libertad and Eco Park in Brgy. Ingore, Iloilo City; La Independencia Park; and high way plantations in Carcar and Argao, Cebu City; and DENR-Region 8 compound, Tacloban City were monitored, assessed and re-evaluated. The treated trees were responding to treatment as well as manifested by calli development. It is recommended that repair by means of re-shaping and re-application of coal tar be done in order to enhance the growth of calli. Continuous monitoring is encouraged to be able to keep track of the response of trees to treatment applied and control disease development.
			Guidelines on improved tree rehabilitation protection and management strategies recommended (no.)	-	-	-	-	-	-									Target activity for 4th quarter
			Data Sets Reviewed/Integrated (no.)		1		1		100%									Continuing activity Coordination with all concerned regions has been done re: progress of the terminal report preparation.
			Information packaged on Good/Best Practices on ESWM (no.)	1	1	1	1	90%	90%									All the eleven (11) regional counterparts have already submitted their final terminal reports. Packaging of information as to the best practices on Ecological solid waste management had started and is expected to be completed by October 2013.
R and D Program on Forest Tree Improvement																		
30. Domestication, breeding and conservation of priority indigenous forest tree species																		
Comp. 1: Provenance trials of Molave and Narra			Provenance trials established (no.)	2	2	1	1	-	-									Continuing activity The provenance trial for molave (<i>Vitex parviflora</i>) was deferred because of the low germination turn out of molave seeds in Regions 3, 7, and 13 which only produced adequate seedlings of one (1) provenance. Only Region 3 completed the establishment of provenance trial of narra for climatic type 1. ERDS Region 6 has planted 1 replicate and is expected to be completed only in October due to lack of manpower in the field. ERDS Region 7 completed the experimental design lay out and will start planting at the first week of October. However, some seedlings were of low quality (small in size and yellowish leaves).
Comp. 2: Progeny test cum seedling seed orchards			Progeny test cum seedling orchards managed and supervised (No.)	8	16	8	16	100%	100%									Progeny test cum seedling orchards of all regions involved were managed and supervised wherein the selected plus trees and production of planting materials were verified. Inspection of plus trees were based on its important traits (height, diameter at breast height, stem straightness, forking, circularity, branching habit and tree health) and on the distance of 25 meter between trees. Field surveys or scouting of potential plus trees in the different provinces of the regions will continue to accomplish the 100 plus trees required of the project..

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Comp. 3: Clonal tests cum clonal seed orchards			Clonal test cum clonal seed orchard managed and supervised (No.)	8	16	8	16	100%	100%									Clonal test cum clonal seed orchards of all regions involved were managed and supervised wherein the selected plus trees and production of planting materials were verified. Inspection of plus trees were based on its important traits (height, diameter at breast height, stem straightness, forking, circularity, branching habit and tree health) and on the distance of 25 meter between trees. Field surveys or scouting of potential plus trees in the different provinces of the regions will continue to accomplish the 50 plus trees required of the project..
Comp. 4: Establishment of Ex-situ conservation sites			Ex-situ conservation stands established (no.)	2	2	2	2	100%	100%									As of the period, ex-situ conservation stands were established in Regions 6 and 12 in Brgy. Rizal, Varotac Viejo, Iloilo and Brgy. Lamalahak, Lake Sebu, South Cotabato, respectively. Seven hundred fifty (750) seedlings were already outplanted in the ex situ conservation sites in both regions using indigenous forest tree species. Vermicompost was applied in each seedling as basal fertilizer.
31. Development, validation and pilot testing of vegetative propagation techniques in the nursery for priority forest tree species																		
Comp. 1: Macropropagation techniques (hedge garden establishment and macro-propagation protocol development)			Propagation protocol using macro-propagation techniques developed (no.)	3	3	3	3	100%	100%									Initial rooting experiments for the 3 targeted species were already finished. The resulting potential best treatments for each species which exhibited best in total growth performance rating in terms of given parameters is as follows: NATO (<i>Palaquium luzoniense</i>) IBA - 500ppm: (Average) Percent rooting = 93.06% No. of roots produced = 3.56 Length of root produced = 16.03 cm. MALUNGAI (<i>Pometia pinnata</i>) IBA - 500ppm: (Average) Percent rooting = 97.22% No. of roots produced = 5.03 Length of root produced = 25.20 cm. LANETENG GUBAT (<i>Kibatalia gitingensis</i>) IBA - 500ppm: (Average) Percent rooting = 97.22% No. of roots produced = 6.65 Length of root produced = 32.14cm. As of the period, these results are currently being validated except from Laneteng Gubat which experiments shall be set up on the first week of October 2013. The validation experiments for Nato and Malungai that have been set up and currently undergoing growth monitoring each has 3 treatments (i.e. IBA 500ppm (Control-T1), IBA 450ppm (T2) and IBA 550ppm (T3)) with four (4) 24-cutting replicates. They are being propagated under non-mist watering scheme using CRD experimental design with rooting medium that has 1:1 mixture ratio of pure fine river and and coconut coil dust. The percent rooting shall be determined next quarter.

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32. Evaluating the effects of different nursery cultural practices on the growth and performance of priority forest tree species			Protocols developed on biofertilizer / vermicompost / organic matter no.)	3	3	3	3	100%	100%									<p>The purpose of validation experiment is to validate whether or not the potential best treatment discovered during the initial phase of macro-propagation protocol development (i.e. initial rooting experiment) will deliver the same highest result in terms of rooting percentage, number and length of root produced compare to other treatments.</p> <p>Eight (8) treatments namely TO (control), T1 (chicken manure); T2 (mycorrhiza); T3 (vermicompost) T4 (CM +Mycorrhiza); T5 (CM + Vermicompost); T6 (Mycorrhiza + Vermicompost) and T7 (CM + Mycorrhiza + Vermicompost) with 3 replications at 30 seedlings/treatment were laid out using Complete Randomized Design in the nursery. These were done in narra, acacia mangium and akleg parang, Protocols for the three (3) species were already determined.</p> <p>Conducted and completed the growth measurement in height of the three (3) priority species: akleg parang, narra and mangium applied with various treatments mentioned above. The measurements were done for three (3) months for akleg parang, four (4) months for narra and five (5) months for mangium. Statistical analysis on the effects of various treatments on height survival and total biomass of the three (3) species Was also done for the period.</p>
			Forest tree species tested (no.)	3	3	3	3	100%	100%									
33. Application of the propagation protocols developed and best nursery cultural practices for the production of priority indigenous forest tree species			Best propagation protocol pilot-tested (no.)	5	5	5	5	100%	100%									<p>Seeds from five (5) indigenous tree species (narra, akleg parang, kalumpit, kupang, and amugis) available in Mt. Makiling were collected and propagated. Necessary seed pre-treatment for each species was applied to ensure good germination. Soil amelioration treatments from FTI project 4 were adopted for Narra and Akleg parang germinants.</p> <p>Narra and guijo are pilot tested using the mist propagation system. On the other hand, Narra as well as mayapis cutting were propagated using the non-mist. Comparing the results of propagation of narra for different propagation systems higher rooting percentage was observed using the non-mist system.</p>
34. Development and management of database and information system			Database system established with data from the regional offices (no.)	1	1	1	1	100%	100%									<p>Refinement of the database was conducted. Currently, the Forest Tree Improvement Database (initial DB name) can hold the information of a tree species and specific data per location which is the general profile of the tree. The general profile of the tree species included the scientific and common names, genus, species, sub-species, classification, wood properties, growth rate, cultural management, site requirement and end users. On the other hand, the specific data per location included the local names, specific locations, phenological data and the year when the seeds were collected. One of the features of the FTI DB is the search interface where the desired tree species can be searched by family, specific, common and local names, and also by location.</p> <p>As of the period, thirty three (33) indigenous tree species were inputted in the FTIDB. Those species were the results of the study conducted by Ms. Dayan on the Indigenous Forest Tree species identified as potential plus trees within the province of Laguna.</p> <p>The database has already been upgraded and tested. It can now</p>

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																		be accessed through the local area network (LAN)

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Technology Transfer and Extension Program																			
34. Production of IEC Materials on ENR technologies through tri-media			IEC materials on ENR technologies through tri-media produced																
			Media releases produced (no.)	2	4	2	5	100%	125%										
			Exhibits produced (no.)	2	5	2	6	100%	120%										
			Technology manuals produced (no.)		1		1		100%										
			Publishable articles produced (no.)	4	6	5	8	125%	133%										
<p>The following articles were submitted to the newspapers and posted in the ERDB website news as of the period:</p> <ol style="list-style-type: none"> 1. ERDB inks MOA with Avilon Wildlife Conservation Foundation 2. ERDB and Army Reserve Command join hands in greening Regions 4A and 4B 3. UN International Day of Biodiversity: ERDB Youth officers serve as facilitators 4. MOA signing of ERDB-DENR and DND Bamboo Project 5. SUCs to complete NGP Clonal Nursery Development projects by 2013 <p>As of the period, exhibits were produced for the following events:</p> <ol style="list-style-type: none"> 1. Clonal propagation technology and NGP-Production of Quality Planting Materials at Green Environment Technologies for a greener present, better tomorrow. Feb. 12, 2013. 2. ERDB exhibit and video presentation on bamboo vulnerability assessment of watershed and mangroves at the Boy Scouts of the Philippines, Jamboree, Los Baños, Laguna, Feb. 22-28, 2013. 3. UPLB-CFNR Alumni Homecoming, April 22-26, 2013 4. DENR 26th Anniversary, June 2-10, 2013 5. National Science and Technology Week (NSTW) Celebration at the SMX Convention Center, MOA Pasay City, Manila July 23-27, 2013 6. LBSCFI Syensaya Wonderama Exhibit at the Copeland Gym, UPLB, July 30 - Aug. 2, 2013 <p>One thousand (1,000) copies of the Handbook on Erect Bamboo Species Found in the Philippines were delivered on April 10, 2013.</p> <p>Ongoing activity</p> <p>As of the period, after the two trainings conducted entitled "Writing Technical Articles for Scientific Journals" and "Writing Popular Articles for Science Magazines" held last May 21-24, 2013 and August 27-30, 2013, respectively, the following were some of the articles produced by the participants:</p> <ol style="list-style-type: none"> 1. Is the Youth Committed to combat climate change? YES 2. Policy Development and Review in the DENR Research Sector 3. Human Economic Activities that Affect the Integrity and Ecological Balance of the Meycauayan-Marilao-Obando River System 4. Boosting the Growth of Molave and Narra through Mycorrhiza 5. Mt. Makiling and its Dilemma to Flooding 6. Agroforestry: A Promising Enterprise for the Farmers in Poooc II, silang, Cavite 7. The Toog Tree Bears Fruit Again (But only after two decades?) 8. Disease Free Seedlings for National Greening Program 																			

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				THIS QTR	TO DATE	THIS QTR	TO DATE	THIS QTR	TO DATE	THIS QTR	TO DATE	THIS QTR	TO DATE	THIS QTR	TO DATE	THIS QTR	TO DATE	
35. Extension services for application of ENR technology			Training on IEC materials production conducted (no.)	1	2	1	2	100%	100%									Two (2) trainings on Skills Enhancement on Production of IEC materials on ENR were already conducted on June 25-28, 2013 at Hotel Pontefino, Batangas City and on September 10-13, 2013 at Tagaytay International Convention Center (TIICC) .
			Regional production of IEC materials on ENR technologies coordinated and monitored (no)	16	16	16	16	100%	100%									Production of IEC materials of the sixteen (16) regions are being coordinated and monitored.
			Technologies assessed (no.)	1	3	1	4	100%	133%									Technologies assessed as of the period are as follows: 1. Seed production of gugo technology 2. Rattan plantation establishment and management technology 2. Seed technology protocols for Dungon and Molave 3. Propagation protocols for Saplungan, bitaog and eucalyptus
			Extension services for application of ENR technology rendered Technology forum conducted (no)		1		1		100%									The ERDB Technology Forum on Gugo was conducted on June 27-28, 2013. This is the first of the two technology fora targeted for 2013. the second technology forum will be conducted in 4th quarter.
			PARTNER-BOND conducted (no)	3	9	7	12	233%	133%									Five (5) coaching/consultative meetings/leveling-off sessions by cluster were conducted during the 1st and 2nd quarter period in CAR, Regions 1 and 2; Region 4A; Region 4B and NCR; Regions 6, 7 and 8; and Regions 11 and 12. While during the period, focus group discussion (FGD) was facilitated in the following regions: Regions 1, CAR, 2, 4A, 4B, NCR and 11.
Demonstration Areas of ENR Technologies			Post-evaluation of transferred technologies conducted (no)	4	12	3	6	75%	50%									Questionnaire form was provided to 9 regions, which participated in the implementation of the activity, as basis for their face to face interview and for analysis of data and report writing. Technologies already evaluated as of the period are as follows: 1. Charcoal Briquetting 2. Bamboo propagation 3. Bamboo Plantation 4. Agroforestry 5. Mangrove propagation 6. Mangrove plantation establishment
			Demonstration areas of ENR technologies established and maintained (no)		1 per region (14)		1 per region (14)		100%									One (1) demo area per region involved is being maintained. CAR - Tiger Grass Plantation NCR - Demo area of Charcoal Briquetting Technology Reg. 1 - Bamboo Propagation Technology Reg. 2 - Palmetum and Bambusetum Reg. 3 - Nipa Propagation Reg. 4B - Bambusetum (Palawan) or Clonal Propagation (Mindoro) Reg. 5 - Bamboo Propagation Reg. 6 - Bamboo Propagation Reg. 7 - Bamboo Propagation Reg. 8 - Bamboo Propagation Reg. 9 - Bamboo Propagation Reg. 10 - Cloned dipterocarp, Premium and Commercially Important Indigenous Species Reg. 11 - Cloned Dipterocarp, Premium and Commercially Important Indigenous Species

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			- demo areas maintained (no.)	8	8	8	8	100%	100%									<p>Reg. 12 - Rattan Propagation Technology</p> <p>While at ERDB in Los Banos Experimental Station (LBES) five (5) technologies were chosen to be showcased in the demonstration areas such as bamboo, rattan, agroforestry, medicinal and clonal propagation.</p> <p>Ongoing activity</p> <p>Eight demo areas are being maintained at Los Baños Experiment Station (LBES) as follows:</p> <ol style="list-style-type: none"> 1. Bambusetum - a 6 ha area that contains forty two (42) bamboo species. It has thirty (30) exotic species, six (6) endemic and one (1) indigenous species. 2. Rattan genebank - established in 1992, this serve as ERDB's initial effort to conserve rattan spp. A total of fifty five (55) species of rattan are maintained in the area. 3. Medicinal genebank - An area containing one hundred sixty five (165) individuals of trees, herbs, vines, shrubs with medicinal value are maintained in the area. Propagation of plants having curative value is a continuing activity. 4. Agroforestry - 15,400 sq. m. that showcases sustainable land-use management system for productive and protective functions. Different agroforestry crops being maintained include black pepper, cassava, pineapple, coffee, rambutan and lanzones. 5. Palmetum - A hedge garden of fifteen (15) palm species complementing biodiversity conservation activities and palm production. Continuous collection and propagation is being done to increase the diversity of the species and to augment the need of our clientele for planting materials. 6. Ornamental Area - Continuous propagation of different species of ornamental plants including host and nectar plants of butterfly is being done to sustain the existence of flowering plants that adds color and beauty to the surrounding of the station. 7. Butterfly Garden - a 4m x 4m area established at the station intended for the production and conservation of endemic butterflies. 8. Forest Nursery - a nursery for the growing and rearing of premium quality seedlings of indigenous and exotic forest trees and bamboo species. It was established for continuous propagation of planting materials for distribution to DENR clientele and partners in the conservation and reforestation of our denuded forest. <p>The research and development of the different demonstration areas are being handled by the different technical divisions as follows:</p> <ol style="list-style-type: none"> 1. Bambusetum - collaboration effort with FERD is ongoing. Continuous production of bamboo stocks are regularly undertaken to ensure steady supply of bamboo seedlings. 2. Rattan Project - collaborative work with GDAERD. Re-inventory of different species of rattan is ongoing. Labeling is also undertaken for easy identification of the species. 3. Agroforestry Project in collaboration with UFERD. 4. Assessment of Epiphytes - collaborative project with CZFERD which had already identified and documented twelve (12) species of epiphytes in the area.
			- studies conducted (no.)	5	5	7	7	140%	140%									

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37. Application and piloting of sustainable ENR technologies in the rehabilitation of typhoon affected areas			Bamboo/Rattan Gallery maintained (no.)	1	1	1	1	100%	100%									5. Survey and Identification of vines - number of vines were already surveyed and identified. 6. Assessment of Butterfly - collection of butterfly and eggs within the vicinity to be placed in the garden is ongoing. Likewise, collection and propagation of host and nectar plants were also done to attract more butterfly and ensure the diversity of the species and to augment the supply of food of caterpillars, respectively. 7. Enhancement of wildlife faunal biodiversity for conservation education and environmental protection of the Los Baños Experiment Station (LBES). ERDB Bamboo/Rattan Gallery is being maintained	
			Data sets gathered/analyzed (no.)	3	3	3	3	100%	100%										Region 4A earlier declined in the implementation of the project so ERDB now takes the lead. Demo areas were identified in Brgy. Manggahan, San Jose, Burgos, and San Rafael, Rodriguez, Rizal (Reg. 4A) for bamboo production., Demo areas (1 each) for bamboo plantation and forest tree plantation were established in Region 8. While demo area for bamboo and agroforestry plantation were established in Region 10. Monitoring of survival and growth of bamboos in plantations will be done on the succeeding quarters CY 2013. Ongoing activity. Office laboratories being maintained are: 1. Seed Laboratory 2. Entomology Laboratory 3. Botany Laboratory cum Herbarium 4. Zoology Laboratory 5-6. Analytical Laboratory - Chemistry Laboratory - Soils Laboratory 7. Microbiology Laboratory 8. Biotechnology Laboratory (Forest Molecular) A total of 759 soil samples have already been analyzed as of the period. These samples came from the different projects being implemented by ERDB and the regional counterparts.
			sites coordinated and monitored (no.)	6	6	3	3	50%	50%										
			Research and Service laboratories maintained and rehabilitated (no.)	8	8	8	8	100%	100%										
Species/samples collected, tested and treated (no.)	225	621	359	759	160%	122%													
Laboratory Services																			
- Maintenance of research and service laboratories			Research and Service laboratories maintained and rehabilitated (no.)	8	8	8	8	100%	100%										
Project Management/Monitoring and Supervision	MFO1	1.1																	
1. Conduct consultation workshops and conferences with concerned stakeholders			Management Conference/consultation/leveling off workshop conducted (No.)	1	3	1	3	100%	100%									1st Research Sector Management Conference and leveling off Workshop Conducted on 19-21 March 2013 at Heritage Hotel, 2nd Research Sector Management Conference in Baguio City conducted on 10-11 July 2013; 3rd RDE Planning Workshop, held in Malvar, Batangas on S17-19 September 2013.	

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2. Conduct of assessment/supervision of RDE programs, projects and activities - Geotagging/georeferencing of RDE projects			National/Regional Accomplishment monitored/evaluated (no.)	17	17	17	17	100%	100%										
			Studies conducted (no.)	1	1	1	1	100%	100%										Continuing project
			Procurement of ICT equipment for Geotagging/Georeferencing of RDE projects	1	1	1	1	100%	100%										Tablets for use in geotagging were delivered in August 2013.
III.d.2 Clonal Nursery and Production of Quality Planting Materials of Premium and Indigenous Forest Species for the National Greening Program (NGP)										7,000	28,991	7,000	24,588	7,000	23,888	100%	97%		
1. Maintenance/Operation of Clonal Nursery Complex			Clonal Nursery complex maintained (no.)	1	1	1	1	100%	100%										Two (2) clonal nursery complex of ERDB (Special Project Area and clonal nursery at Jamboree site) are being maintained and operationalized
			Ramet/Hedge garden maintained (no. and ha) (old) new (establishment for 2012)	13/563 sq.m	13/563 sq.m	13/563 sq.m	13/563 sq.m	100%	100%										ERDB has maintained the existing hedge gardens and has established additional 400 sq.meter planted with 3 species.
			Seeds Collected (kg./ sp)	45 kg./ 10 sp.	75 kg./ 26 sp.	61 kg./ 10 sp.	102 kg./ 26 sp.	134%	136%										The seeds collected exceeded the target quantity of 45 kilos since the time of fruiting of many indigenous forest tree species was May to June. The 55 species targeted in the WFP will be until the end of the year 2013. Other species of indigenous forest trees will be collected from other regions by 4th quarter 2013.
2. Production of quality planting materials of premium/indigenous species			Quality planting materials (QPM)																
			- premium/indigenous species (P15/seedlings)	350,000	550,000	124,679	376,473	36%	68%										To date, ERDB has a target of 550,000 seedlings of indigenous tree species and 100,000 seedlings of fruit trees for procurement amounting to 8,750,000. A total of 35,000 seedlings of indigenous and premium species were already procured and delivered. The rest of the seedlings procured are expected to be delivered within 4th quarter.
			- fruit trees (P 20/seedling)	50,000	100,000	-	-	-	-										
3. Project Monitoring and Supervision (PMS) relative to NGP																			
			a) Provision of technical assistance to/linkaging with LGUs, schools, & other stakeholders	5	15	5	15	100%	100%										

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b) Conduct of trainings			Stakeholders capacitated (no.)	2	4	2	4	100%	100%									11. Region 5 ERDS SPA Project 12. Negros Oriental State University 13. Pampanga Agricultural College 14. Ramon Magsaysay Technological University 15. Bamboo Project with DND at Fort Magsaysay, Nueva Ecija The In-house Training on the Collection, Processing and Handling of Planting Materials was conducted on 11 February 2013 while On site hands-on- training on Nursery Establishment and Operations was conducted on 29-30 March 2013 with 4RCDCG AREASCOM Philippine Army. A reorientation workshop on the Establishment and Management of Seed Sources (Seed Production area and Individual Plus Trees) was conducted with the technical staff of Provincial Environment and Natural Resources Office on July 29 to August 01, 2013 for Luzon Group and on August 05-08, 2013 VisMin Group at ERDB, College, Laguna
c) Production of IEC materials			IEC materials produced and distributed (no.)	2	4	2	3	100%	75%									Brochure about NGP and a flyer on basic information about NGP was already finalized and will be made available for distribution to various stakeholders. Eight (8) albums about the activities of NGP were uploaded to the official Facebook of NGP-PQPM. Accomplishments and undertakings were duly posted and published on ERDB website and networking sites.
d) Monitoring and assessment of regional accomplishment on seedling production and area planted			Regional accomplishment monitored/assessed and validated (no.) a) seedling production b) area planted	16 regions	16 regions	11 regions	11 regions	69%	69%									Monitoring of seedling production of the 5 regions (NCR, 6, 8, 10 and 11) were not accomplished due to the postponement of the activity as per instruction by the Director and PQPM ANC to further to level-off for the validation and it coincided with the ongoing regional benchmarking activity for the NGP. Will facilitate the completion of the activity by November 2013.
e) Preparation of Status Reports for submission to DENR			Consolidated Status report prepared submitted on regular basis (weekly/monthly)	12	36	12	32	100%	89%									Reports are submitted on NGP-PQPM OpCen on a weekly basis. A template for the reporting was forwarded to the regions as guide for a more systematic submission of reports and status updates.
f) Oversee the maintenance and operation of the clonal nursery for submission to DENR			Operation of the clonal nursery facilities maintained and supervised (no.) a) DENR regional clonal facilities b) SUCs clonal facilities	22	22	14	14	64%	64%									Continuing activity The updates on the Clonal Nursery Operations of 14 of the 22 DENR and 12 of the 17 SUCs were monitored by the NGP-PQPM OpCen. Technical staff and ERDB Senior Technical Staff. The rest of the DENR regional and SUCs clonal nurseries will be monitored within 4th quarter.
g) Monitor the seed collection and seed banking activities			Regional seed collection and seed banking activities monitored (no.)	16	16	10	10	63%	63%									Continuing activity The updates on the seed collection process of the 9 regions and on-site validation of the identified SPA/PT of the 15 PENROs were conducted by the NGP-PQPM OpCen technical staff and ERDB senior technical staff. On site validation of the remaining potential areas for SPA/PTs will be carried out on the 4th quarter this year.

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4. R&D Program for Forest Tree Improvement			h) Oversee the establishment and maintenance of new Seed Production Areas (SPAs)	35	60	15	42	43%	70%									Validation of the newly established SPAs is expected to be completed within 4th quarter.		
			i) Oversee the production/procurement of QPM of premium and indigenous forest species and fruit trees	Regional seedling production/ procurement monitored (no.)																Continuing activity
				a) DENR regional PQPM	22	22	14	14	64%	64%										The updates on the seed production of the 14 of 22 DENR and 12 of the 17 SUCs were monitored by the NGP-PQPM OpCen technical staff and ERDB senior technical staff. Monitoring on the update of seedling production/procurement of the remaining 8 DENR and 5 SUC Clonal Nurseries will be conducted by 4th quarter of this year.
			b) SUCs PQPM	17	17	12	12	71%	71%											
			j) Supervise the establishment of mycorrhizal production facilities and and monitor mass-production of mycorrhizal inoculants			Established mycorrhizal production areas monitored and validated (no.)	2	2	2	2	100%	100%								The supervision of the establishment of two mycorrhizal facilities was conducted by the Mycorrhizal Project Technical staff.
			a. Germplasm collection, seed production, and seed banking of superior forest trees			Seed laboratories and facilities rehabilitated (No.)	1	1	1	1	75%	75%								Rehabilitation of the seed laboratory is ongoing and is 75% completed as of the period
						Seed sources identified and selected (No.)	1	3	1	3	100%	100%								Seed sources identified and selected as of the period were: 1) Maraili, Aborlan, Palawan (Kupang); 2) Brgy. Cabulayan, Mangatarem, Pangasinan (Acacia mangium) and 3) Quezon National Park and ERDS clonal site (dulitan, kalantas, duguan and tanghas).
			Germplasm collected and documented (No.)	1	2	1	2	100%	100%								As of the period, seeds of kupang, Acacia mangium, dulitan, kalantas, duguan, tanghas were collected in Aborlan, Palawan; Mangatarem, Pangasinan and Quezon National Park and ERDS Clonal site. Seed tests conducted for all species included moisture content determination, germination test and seed health test. In addition, phenological observations of 35 species of kupang and 62 species of Acacia mangium were also accomplished for the updating of phenology calendar.			
			Project Managed and Supervised (no.)	6	14	6	14	100%	100%								Continuing activity As of the period, 14 of the 16 regions involved in the project were visited and supervised to monitor the implementation of the project. Phenological observations of the forest tree species selected were recorded. This activity is expected to be 100% completed by end of December.			
b. Assessment of genetic diversity through DNA Analyses			Analyzed DNA assay of target species (no.)	2	2	2	2	100%	100%								Continuing activity Analysis of DNA assay of narra and molave was continued during the period.			

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c. Micropropagation techniques (hedge garden establishment and micro-propagation protocol development)			Propagation protocol using micro-propagation techniques developed (no.)	2	2	2	2	75%	75%										Ongoing activity <i>Philippine Teak</i> Shoot tip explants were used for Philippine teak. Sterilization treatments involved the use of different combination and concentration of liquid soap, fungicide, hydrogen peroxide, antibiotics, ethyl alcohol, sodium hypochlorite and betadine. Ascorbic acid and activated charcoal were also used in sterilization and were supplemented in the culture media to prevent browning of explants. High rate of contamination was obtained (90 - 100%). Those explants that were able to produce new shoots were subcultured but exhibited browning afterwards. <i>Batikuling</i> The leaves and nodes of Batikuling seedlings were initially cleaned with liquid soap, alcohol and sodium hypochlorite and wiped carefully with cotton. Explants were also sterilized with 20% hypochlorite and pure betadine before inoculation. This procedure gave 90% contamination. Leaf and nodal explants were planted in MS medium with Nitsch and Nitsch vitamins. 1.0 ppm BA and 0.01 ppm NAA. After two (2) weeks, bud formation was observed on the nodal explants which survived. Sterilization protocol for Philippine teak and Batikuling is expected to be 100% completed by end of 2013.
GRAND TOTAL										49,128	181,869	50,152	176,876	46,840	166,064	93%	94%		

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