

QUARTERLY PHYSICAL REPORT OF OPERATIONS

Department  
Agency:  
Operational Unit  
Organizational Code (UACS)

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
ECOSYSTEMS RESEARCH AND DEVELOPMENT BUREAU

Programs/Activities/Projects (P/A/Ps)	Performance Indicators	PHYSICAL TARGET					PHYSICAL ACCOMPLISHMENT					VARIANCE	REMARKS
		1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	TOTAL	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	TOTAL		
<b>A.III.d.1 MOOE and CO Ecosystems Research and Development Service</b>													
<b>I. General Administration and Support Services (GASS)</b>													
<b>A. General Management and Supervision</b>	Financial reports submitted (no.) (quarterly, monthly, weekly)	12	12	12	12	49	12	12	12	13	49		
	Annual Procurement Plan prepared and submitted (no.)				1	1	0	0	0	1	1		Fourth quarter target. Annual procurement plan for FY 2021.
	ERDB building and facilities maintained (no.)	1	1	1	1	1	1	1	1	1	1		Constant target. ERDB building and facilities are regularly maintained. Maintenance activity include: replacement of roof, dilapidated room partitions, door knobs, and the likes.
	Records of ERDB Personnel Updated and Maintained (no.)	320	320	320	320	320	320	320	320	320	320		Constant target.
	Service vehicles maintained (no.)	45	45	45	45	45	45	45	45	45	45		Constant target. Activities include: change oil, regular servicing, replacement of tires and the likes
<b>B. Human Resource Development</b>	Trainings conducted (no.)	3	3			6	1		2	4	7	1	Feb 3-5, 2020 Learning Event on the HR Mechanics June 24, 2020 Webinar on Competency Based Assessment August 5, 2020 Webinar on DENR Merit and Selection & Promotion September 28-30, 2020 Technology Packaging October 14-15, 2020 Training on Republic Act No. 9184 and its 2016 and its 2016 Revised Implementing Rules and Regulations October 19, 2020 Webinar on Basic Laboratory Protocols and Chemical Handling
<b>C. Administration of Personnel Benefits</b>	Terminal leave benefits paid (no. of personnel)		2	2	3	7	0	0	1	6	7		
<b>II. Support to Operations (STO)</b>													
<b>A. Data Management including Systems Development and Maintenance</b>													
1. Generate and update RDE databases, information/technologies and statistics	ENR-RDE Information systems developed/enhanced (no.)	4	4	4	4	4	4	4	4	4	4		Constant target and continuing activity
	ICT equipment procured and maintained (no.)	var	var	var	var	var				83%	83%		Servers were already delivered, additional computers and laptops be purchased using the remaining fund.
2. Updating, maintenance and management of	Website updated/maintained (no.)	1	1	1	1	1	1	1	1	1	1		Constant target and continuing activity

websites and LAN	Internet connection via DSL maintained (no.)	1	1	1	1	1	1	1	1	1	1	1	Constant target and continuing activity
3. Review and validation of reports on ENR statistics	Sectoral statistics reviewed/consolidated and validated (no.)	7		7		14	7	7	7	7	14		Main Office and 6 RDECs statistical report for the 3rd and 4th quarter of FY 2019 were already submitted to DENR-SDRMD last
	DENR Statistical Committee Meetings attended (no.)	var	var	var	var	var			1	100%	100%		13 March 2020 and 1st quarter and 2nd quarter 2020 report submitted last August 4,2020
RLIP													September 22, 2020 Zoom Video Conference 31st National Statistics Month 2. 2020 Client Satisfaction Survey 3. Compendium on ENRS 4. Update on the National

<b>B. Production and Dissemination of Technical Popular Materials in the Conservation and Development of Natural Resources and Environmental Biodiversity</b>													
1. Packaging and publication of ENR generated technologies/information (technical and popular publications)	ENR technical materials packaged and produced (no.)												
	RISE (no. of new issues)		1		1	2		1	2	2	5	+3	
	RISE (no. of copies)	150	150	150	150	600	50		3	150	203	397	Printing of issues on hold. Coordination with regard to printing
	Articles edited and layouted		2	3	3	8	6	10	44	24	84	+76	
	ERDB Annual Report (no. of copies)		200			200	0				0	200	For printing
	Audio Visual Services (no. of major activities documented)	2	2	2	2	8	7	2	7	7	16	+8	Launch of online publications
2. Maintenance of ENR Library	ENR Library maintained (no.)	1	1	1	1	1	1	1	1	1	1		ERDB Annual Technical Seminar
<b>C. Legal Services including Operations Against Unlawful Titling of Public Land</b>													
1. Review of MOAs/MOUs	MOAs/MOUs reviewed (no.)	5	5	10	5	25		2	24	18	44	+19	demand driven
<b>D. Conduct of Special Studies, Design and Development in Support of Forestry, Mining and Environmental Management Operations, including Climate Change Resilience</b>													

1. Conduct/Hosting of International Conferences	International conferences conducted/hosted (no.)													International conferences shall no longer be conducted as per DENR guidelines. ( due to Covid 19 pandemic)
a. Asia-Pacific R&D Conference on Sustainable Coastal Tourism Management														
b. R&D Congress on Urban Parks and Green Cities: A Sustainable Future in Southeast Asia														
c. Congress on Sustainable and Climate Resilient Watershed Management through Ecosystem Disaster-Risk Reduction (ECO-DRR) in the Asia-Pacific Region														
d. ASEAN Conference on Medicinal Plants														
2. Conference Proceedings	Conference Proceedings prepared and submitted (no.)						4							Deffered
<b>E. Formulation and Monitoring of ENR Sector Policies, Plans, Programs and Projects</b>														
1. Conduct of planning and reprogramming workshop with DENR Central Office, Research Centers and other sectors/ bureaus	ERDB Budget Proposal FY 2021 prepared (no.)		1				1	1	1			1		
	ERDB Work & Financial Plan for FY 2021 prepared (no.)					1	1	0			1	1		
	Planning & programming workshop/meetings attended (no.)	2	2	2	2	8	5	1	4	2	12	+4		1. EAGLE Workshop (January 28-31, 2020) 2. UWM Workshop (January 7-8, 2020) 3. EAGLE Meeting (February 14, 2020) 4. SPMS Indicators Meeting (February 21, 2020) 5. NGP Implementers workshop (March 11-13, 2020) 6. 4th PC-11 Meeting: Formulation of the Enhanced Chapter 20 of the Philippine Development Plan (PDP) 2017-2022 Midterm 7. CY 2020 Midyear Assessment of DENR Priority Programs (July 28-31, 2020) 8. DENR National Meeting on Updating the GAD Strategic Plan for 2020-2025 and Preparation of 2021 GAD Plan and Budget (August 6, 2020) 9. FY 2021 DENR Planning Guidelines (Sep 15, 2020) 10. Sectoral Meeting on Baseline Data Gathering of Gender-Disaggregated Data of ENR Programs and Projects Sep 7-8 11. DENR Budget Reprogramming October 20-23, 2020 12. DENR Year-End Assessment December 1-3, 2020
	Conduct of Research Sector Management Conference/ consultation workshops/strategic planning/meetings (no.)	1		1	1	3	1			3	4	+1		1st Management Conference (March 4-5, 2020) The conduct of a Management Conference is not feasible due to the Covid 19, hence, the budget allotted was included in the re-allocated budget as per DBM NBC 580. 2. ERDB Planning and Budget Reprogramming for Research Center last October 13, 20, and 23, 2020 3. ERDB 2nd Management Conference 2020 held last October 29-30 4. ERDB 3rd Management Conference 2020 held last December 7, 2020
2. Conduct of Annual In-House Review of completed and ongoing RDE programs/projects	Annual in-house review of completed and ongoing RDE programs/projects conducted (no.)				1	1				1	1			
3. Attend local/global fora in line with the country's/agency's	Meetings/fora/symposia/conferences attended/	var	var	var	var	var			1	2	3			1. Orientation/Webinar on Mainstreaming Climate Change Concerns in the DENR Priority Programs (June 24, 2020)

commitments to various multilateral environmental agreements	participated (no.)													2. Webinar on Pursuing Climate, Gender, and Health Responsive Mineral Resources Development Programs (August 12, 2020)
	Membership to scientific and technical committees/ organizations participated (no.)	var	var	var	var	var	3		2		5		3. Meeting with the Climate Change Service for proposed areas for collaboration (August 23, 2020)	
4. Provision legislative assistance to Congress	Assistance provided to Congress (no.)	var	var	var	var	var			2	4	6		1. Protect Wildlife Protect Steering Committee meeting (February 04, 2020) 2. World Water Day Steering Committee meeting (February 5 and 26, 2020) 3. Biodiversity Expenditure Tagging Workshop (BIOFIN) (July 15, 2020) 4. Technical Committee on Statistical Concerns and Coordination (September 22, 2020)	
5. Review/Revision/Submission of draft policy	Policy recommended based on - Research Projects (no.) - Management Instructions (no.)				4	4			1	3	4		Congress and Senate Budget Hearing 1. 1st Congress budget hearing September 8, 2020 2. 1st Senate Committee on Environment budget hearing on September 24, 2020 3. 2nd Congress budget hearing October 6, 2020 4. 2nd Senate budget hearing October 9, 2020 5. Congress plenary budget hearing October 14, 2020 6. Senate Budget November 20, 2020	
<b>F. Ecosystems Research, Development and Extension Services</b>														
<b>F.1. ERDB Main Office</b>														
<b>F.1.a. Formulation, Coordination, and Monitoring of RDE programs/projects/ studies on Forest Ecosystem</b>														
1. Formulation of Research Directions on Forest Ecosystem for RDE Centers	Research Agenda on Forest Ecosystem reviewed and monitored (no.)				1	1				1	1		Continuing activity based on the identified research gaps, reviewed proposals, and mentoring of Research Centers' technical staff.	
2. Research Gap Analysis on Forest Ecosystem	RDE proposals/projects/outputs on Forest Ecosystem reviewed and evaluated (no.)	1	16	4	3	24	13	5	48	13	79	+55	A direction setting and mentoring of RDECs were done by technical divisions as part of their mandate.	
	Meetings with other Bureaus/ Offices conducted (no.)	1	1	1	1	4	2		1	1	4		Client Driven, proposals from RDEC. Proposals for 2nd and 3rd review were also included.	
	Research gap on Forest Ecosystem identified and analysed (no.)	var	var	var	var	var				var	100%		Continuing activity based on the identified research gaps, reviewed proposals, and mentoring of Research Centers technical staff.	
3. Conduct of Policy Research on Forest Ecosystem	Policy Research conducted (no.)	1	1	1	1	1	ongoing	on going	ongoing	ongoing	ongoing		Continuing activity. Commenced with the preparation of research proposal on Landscape Ecology Approach in Managing Candaba Swamp,	

													Pampanga, Philippines
<b>F.1.b. Formulation, Coordination, and Monitoring of RDE programs/projects/studies on Coastal and Freshwater Ecosystems</b>													
1. Formulation of Research Directions on Coastal and Freshwater Ecosystems for RDE Centers	Research Agenda on Coastal and Freshwater Ecosystems reviewed and monitored (no.)				1	1					1	1	Continuing activity based on the identified research gaps, reviewed proposals, and mentoring of Research Centers technical staff.
	RDE proposals/projects/outputs on Coastal and Freshwater Ecosystems reviewed and evaluated (no.)	8	3	2	2	15	8	5			4	17	+2  The ETRC on Biodiveristy reviewed the "Biodiversity and Ecotourism Carrying Capacity of Mahagnao Volcano Natural Park (MVNP), Burauen and La Paz, Leyte, Eastern Visayas, Philippines" on 19 May 2020 via Google Meet. (MQMoreno, DAAfrica, GHRueda, Jmanahan)  The Coastal and Marine Research Development Section reviewed the 3 proposals prepared by CRERDEC for submission to the GIZ project on Rethinking Plastics – Circular Economy Solutions to Marine Litter.  1. Marine Plastic Harvesting: Turning marine litter to financial opportunities through recycling and upcycling by CRERDEC (MBNatividad and AGAntong)  2. Wastes to Products: A Community Based Approach to Plastic Waste Management in Iloilo City Coastal Areas by CRERDEC (MBNatividad and AGAntong)  3. Piloting and Impact Assessment of Deposit-return System for the Management of Plastic Waste Bottles by CRERDEC (ASGestiada, MBNatividad and AGAntong)
2. Research Gap Analysis on Coastal and Freshwater Ecosystems	Meetings with other Bureaus/ Offices conducted (no.)	1	1	1	1	4	3				1	4	Meeting is client driven activity. West Philippine Sea Strategic Plan Consultation/ Program Review (12-14 Feb. 2020) Small Wokshop on Mangrove Road Map (06 Feb.) "Philippines' Eastern Seaboard Coastal Resilience Project (CRP)" Proposal to the Green Climate Fund (GCF) Workshop (10 March) For Jun 2020, CZFERD was involved on the submissions/meetings concerning the finalization of DENR-ERDB LPPWP project meeting (ASCastillo, CMarquez, ASGestiada,
	Research gap on Coastal and Freshwater Ecosystems identified and analysed (no.)	var	var	var	var	var					var	100%	
3. Conduct of Policy Research on Coastal and Freshwater Ecosystems	Policy Research conducted (no.)				1	1	ongoing	ongoing	ongoing	ongoing	ongoing	ongoing	Preparation of policy research on Water Quality Guidelines CZFERD staff attended the following webinars for relevant information on development and possible research gaps in freshwater, mangrove and coastal and marine ecosystems: ●CCSM Webinar: Prof. Ilan Kelman (UCL) Disaster by Choice: Why disasters are not natural' May 19, 2020. The Centre for Crisis Studies & Mitigation at the University of Manchester ●The Great Web: COVID-19, Climate Change and the Ocean, Series of Webinars on the State of Philippine Biodiversity, May 27-30, 2020: State of Philippine Biodiversity/State of Philippine
	Technical assistance provided/rendered												

														Marine Biodiversity/State of Philippine Freshwater Biodiversity/Threats to Biodiversity: Invasive Species and current practices to counter invasive species SEAMEO-UNESCO Joint Webinar on World Environment Day, PROTECT: Promoting Reef Observation Through Engagement of Citizens Today, June 8, 2020 ●Coral Triangle Initiative Webinar: A Webinar on Coral Reef Conservation for Plastic Free Seas, June 11, 2020 Biodiversity matters: A webinar series on biodiversity, human health and participatory biodiversity conservation, June 16-20, 2020
<b>F.1.c. Formulation, Coordination, and Monitoring of RDE programs/projects/studies on Urban Ecosystem</b>														
1. Formulation of Research Directions on Urban Ecosystem for RDE Centers	Research Agenda on Urban Ecosystem reviewed and monitored (no.)				1	1					1	1		Continuing activity based on the identified research gaps, reviewed proposals, and mentoring of Research Centers technical staff.
	RDE proposals/projects/outputs on Urban Ecosystem reviewed and evaluated (no.)					15	4		18	10	32	+17	This is actual accomplishment based on the projected number of proposals to be received and to be prepared following the procedure in proposal development process.	
													Prepared Concept Note Proposal titled " Governance and Management of Plastic Towards Circular Economy in Bacolod City, Philippines This is actual accomplishment based on the projected number of proposals to be received and to be prepared, in the WFP it is indicated as variable.	
2. Research Gap Analysis on Urban Ecosystem	Meetings with other Bureaus/ Offices conducted (no.)	1	1	1	1	4	8	3	6	4	21	+17	Meeting is demand driven activity.	
	Research gap on Urban Ecosystem identified and analysed (no.)	var	var	var	var	var	2			2	100%		Prepared and submitted a proposals for the Smart City and Smart Solution Project for possible assistance under the 2020 K-City network Global Cooperation Program.	
3. Conduct of Policy Research on Urban Ecosystem	Policy Research conducted (no.)				1	1				1	1		Revised the Valuation Proposal under the Built-up Areas Component Contributed in the CARCAP Manual. A proposal titled "Development of Strategies for Climate Resilient and Sustainable Urban Areas for Inclusive Growth" for review.	
<b>F.1.e. Monitoring and Evaluation of RDE Programs/Projects/Studies' Implementation</b>														
	RDE Programs/projects/studies monitored and evaluated (no.)	18	18	18	18	18	18	18	18	18	18			
<b>F.1.e. Sustainability of Laboratory and Experimental/Demonstration Services in Support to RDE Programs, Activities and Projects of ERDB Proper and Research Centers</b>														
Project 1. Quality Development and Management program for Laboratory Services in Support to RDE PAPs	Research laboratories maintained (no.)	10	10	10	10	10	10	10	10	10	10		Continuing Activity	

	Laboratory equipment maintained and calibrated (no.)	31	31/20	31/11	31	31/31	31	31	31	31	31		Laboratory equipment are regularly maintained. Calibration of equipment shall be done on the 4th quarter
Project 2: Science-based Management of Experimental Sites and Demonstration Areas in Support to RDE Programs/Projects	Demonstration areas maintained (no.)	2	2	2	2	2	2	2	2	2	2		Continuing activity Continued maintenance of the two (2) demonstration areas: 1. Los Baños Experiment Station (LBES) - LBS Facilities (including Jamboree Site) - Conservation Breeding of <i>Sus philippensis</i> - Butterfly Sanctuary - Rattan Genebank 2. Research and Development Demonstration Zone (RDZ) - RDZ Facilities - Bamboo and Rattan Gallery - Butterfly Garden - Bamboo and Nursery Garden - Charcoal Briquetting and Material Recovery Facility
<b>E.1.f. Client-Based Technology Transfer and Extension Services for Environment and Natural Resources (ENR) Management</b>													
ERDB Main Office RDE Centers	<b>ERDB Main Office RDE Centers</b>												
Project 1. Technology Assessment, Classification and Packaging of ENR Technologies													
- Workshop on the mainstreaming of the outputs to ERDB database	Workshop conducted (no.)				1	1	0		1		1		
- Reproduction and distribution of Technology Assessment Protocol (TAP) Manual	TAP Manual produced (no. of copies)				100	100	100		100		100		
- Roll out of TAP	Roll out conducted (no.)			4	2	6			6		6		A total of six (6) Online rollout of Technology Assessment Protocol (TAP) were conducted. Two conducted last September 1 and 8,
- Technology assessment	ENR technologies assessed (no.)			2	1	3				3	3		
	Table assessments conducted (no.)			2	1	3				3	3		
	Field assessments conducted (no.)			2	1	3				3	3		
- Development of database for technology assessment	Database developed (no.)	1	1	1	1	1	1	1	1	1	1		
Project 2. Extension Services on Viable Technologies Through Demonstration Strategies/Areas	ERDB Main Office RDE Centers												

Activity 1. Technology Needs Assessment (TNA)													
- Monitoring and consolidation of TNA activities conducted by RDECs	TNA monitoring reports consolidated (no.)				2	2	0	2		2	4	+2	
- Conduct of TNA	Survey or assessment conducted (no.)	2	1	1	1	5	4		1	1	6	+1	
Activity 2. Implementation and Monitoring of Strategic Communication Plan													
- Monitoring of Strategic Communication Plan implementation	Extension sites monitored (no.)				6	6				6	6		
	Monitoring reports consolidated (no.)				6	6				6	6		
	Monitoring reports analyzed (no.)				6	6				6	6		
	Recommendation based on findings formulated (no.)				6	6				6	6		
- Implementation of Strategic Communication Plan													
a. Partnership (with public and private organization)	Stakeholders partnered (no.)	1		1	1	4	1	1		2	4		
b. Capacity building	Trainings conducted (no.)		2	4	3	9	0	1	4	3	8	1	
	Training reports prepared and submitted (no.)				9	9	0	1	1	6	8	1	
	Action plan prepared (no.)	1	1	2	2	6	0	1	1	3	5	1	
c. IEC campaign for promotion of ENR technologies (showcase of ENR technologies)	Techno-forum/seminar/symposium/ educational tour conducted (no.)	1		3	1	5	1	1		3	5		
	Techno-forum/seminar/symposium/ educational tour report prepared and submitted (no.)				5	5	1			4	5		
	IEC materials produced (no.)			1	5	6	2		1	3	6		
	Demo Area/Show windows improved and maintained (no.)												Original target is 4, however the said activity cannot be accomplished due to travel restrictions. The target was removed in the revised FY 2020 WFP of ERDB
	Exhibit conducted/participated (no.)			3	1	4	0		1	3	4		
	Press releases prepared (no.)												
	Educational/appreciation tour conducted (no.)			1		1	0			1	1		Scheduled activities were suspended due to COVID 19.
	Media linkages established/ strengthened (no.)			1		1	1				1		
	FGD/Meetings conducted (no.)												



	Show window established (no.)													
d. Progress Tracking	Monitoring activities conducted (no.)	5	2	7	7	21	1	7	1	12	21			
	Progress report prepared and submitted (no.)	3		3	4	10	0	2	2	6	10			
Activity 3. Strategic Communication Plan	Strategic Communication Plan consolidated (no.)			6	6	0				6	6		Targets are set for 4th quarter to be conducted by RDECs	
	Strategic Communication Plan prepared and submitted (no.)				6	6	0			6	6		Submission by RDECs are set on the 4th quarter	
	KAP Survey/Stakeholder Analysis report prepared and submitted (no.)			3	2	4	0		2	2	4		Consolidation shall be done on the 4th quarter based on the submission of RDECs	
Activity 4. Database Development and Management	Database developed and managed (no.)	1	1	1	1	1	1	1	1	1	1			
Project 3. IEC Campaign on Research Based Information for Sustainable Ecosystems Management	<b>ERDB Main Office</b> <b>RDE Centers</b>													
Activity 1. Production of Printed Knowledge Products and IEC Materials														
- Production of Printed Knowledge Products and IEC Materials	Building Brand Identity for ERDB technologies (Phase 2 - Brand expansion) Production and printing of branding collaterals													
	ERDB Notebooks (no. of copies)			300	300	0				257	257	43		
	ERDB Calling Cards (no. of copies)			25000	25000	0				100	100	24900		
	ERDB Folders/Envelopes (no. of copies)			500	500	0					0	500		
	Brochure for Technical Assistance (no. of copies)			500	500	0					0	500		
	Sylvatrop printed (no. of copies)			700	700	1400	0				0	1400	Sylvatrop copies are published online. As of Dec 78576 visited the Sylvatrop website to access the different issues of sylvatrop published	
	Sylvatrop articles reviewed (no. of articles)	5	5	5	5	20	5	10		15	30	+10		
	Canopy International printed (no. of copies)			1000	1000	2000						2000	Printing of Canopy was put on hold. The publication was made available online through the ERDB website	
	Workshop on the development of Techno-Transfer Manual conducted (no.)				1	1	0				0	1	Due to the pandemic, there were some changes to the nature of some of the services offered by the Techno Transfer. Further formulation for the manual is to be done and compiled adjusting to the new normal	
	Technology Transfer and Extension Manual printed (no. of copies)				50	50	0				0	50	Printing is on hold since the content of the manual is still being discus	
Activity 2. Mass Media Campaign of Ecosystem Technologies	Press Releases published (no.)	1	1	1	1	4	0	2	4	3	9	+5		
	Web Releases published (no.)	1	1	2	2	6	10	2	6	7	25	+19		
	TV/Radio guestings facilitated/	1	1	1	1	4	2		4	1	7	+3		

	coordinated (no.)													
	Social Media pages maintained/updated (no.)	1	1	1	1	1	1	1	1	1	1	1		
	i. Stories uploaded (no.)	3	3	3	3	12	10	15	19	8	52		+40	
	ii. Followers invited (no.)	100	100	100	100	400	1022	699	3529	2568	5250		+4850	
	iii. Cover design uploaded (no.)	3	3	3	3	12	1	3	9	3	16		+4	
Activity 3. Visual Communication of Ecosystem Technologies	Exhibit conducted/participated (no.)					2	2	1		1	2			
	Technology Forum/Technology Transfer Day (no.)					1	1			1	1			
	i. Technologies showcased (no.)					10	10	0		10	10			There were 8 Technologies showcased in the episodes of enviotak and more technologies were discussed during the enviotech forum
	ii. Posters prepared (no.)					10	10	0		23	23			Posters prepared were used in the NBW celebration
	iii. Participants invited (no.)				100	100	0			500	500		+400	500 participants were invited to attend the celebration of the NBW
Activity 4. Technical Assistance for ERDB Clients	Database of technical assistance and experts managed (no.)				1	1	1	1	1	1	1			
	Technical assistance reports prepared (no.)	1	1	1	1	4				1	1		+3	
	Client Feedback Forms consolidated and analyzed (no.)	1	1	1	1	4				8	8		+4	
Activity 5. Database Management for Production of IEC Materials	Database management for production of IEC materials managed/maintained (no.)	1	1	1	1	1	1	1	1	1	1			
Project 4. Evaluation of Transferred ENR Technologies cum Documentation of Success Stories of Adoption	<b>ERDB Main Office</b>													
Activity 1. Evaluation of Transferred ENR Technologies	Transferred ENR technologies for evaluation identified (no.)													
	Adopters of ENR technologies for evaluation identified (no.)			15		15	3			12		15		
	Evaluation tool developed (no.)			1		1	1					1		
	Datasets gathered and analyzed (no.)				1	1	0			1	1			
	Evaluation reports prepared and submitted (no.)					1	1	0		1	1			
Activity 2. Documentation of Success Stories of Technology Adoption	ENR technology identified (no.)	1				1	1			1	1			
	Datasets gathered (no.)					1	1	0		1	1			
	Field validation and documentation conducted (no.)					1	1	0	0	0	0		1	Due to Covid-19 pandemic, the project was not able to conduct field data gathering, thus available information from previous years documentation are being consolidated to be used as material in the preparation of booklet of success stories of bamboo technology adoption.
	Documentation report on success stories of adoption prepared and submitted (no.)					1	1	0			0		1	
	IEC material prepared for dissemination (no.)					1	1	0			0		1	

<b>F.2. Research, Development and Extension Centers' Implementation of RDE Programs/ Projects/Studies</b>													
<b>F.2.a. Watershed and Water Resources Research, Development, and Extension Center (WRRDEC)</b>													
<b>1. Program on Forests Ecosystem Resiliency and Sustainability</b>													
Project. Natural Regeneration Status of Pinus kesiya Royle ex Gordon in Forest Reserve and Watersheds in Baguio City (NEW) (February 2020 - June 2021)	Benguet pines status assessed within watershed and forest reserve (no.)		0	2	2	4				4	4		
RDE project in the FY 2020 proposal pipeline (NEW proposal stage)	RDE proposal reviewed and approved for implementation (no.)	1	1	2	2	2			1	1	1		
<b>2. Program on Emerging Issues</b>													
Project. IPM Development in Forest Plantations Areas within watersheds of Regions I, II, III, and (January 2017 - March 2022)	Regions assessed for pest/diseases infestations (no.)			1	1	2		ongoing	ongoing		0	2	Assessment was not done due to the travel restriction inside and outside Baguio City. Target sites for this year shall be included in the FY 2021 target.
	Dataset on pests and diseases infestation collected and analyzed (no.) - incidence and severity	2	2	2	2	2	2	2	2	2	2		
	Plantation sites monitored for pest/disease infestation (no.)			1	2	3			2	1	3		
	Database on pest infestation updated (no.)				1	1				1	1		
<b>3. Program on Promoting Ecosystem Health and Sustainability of Urban Areas through Research and Development</b>													
<b>Sinkholes</b>													
in Baguio City (Proposed New Project for 3rd QTR) (July 2020 - June 2022)													
<b>4. Maintenance of Laboratory in Support to the Centers RDE projects</b>													
	Laboratory maintained (no.)	1	1	1	1	1	1	1	1	1	1		
<b>F.2.b. Urban and Biodiversity Research Development and Extension Center (UBRDEC)</b>													
<b>1. Program on Forests Ecosystem Resiliency and Sustainability</b>													
Project. Market Chain Analysis of Selected Non-Timber Forest Products for Equitable Revenue Distribution (July 2019 - June 2020)	Market data for non-timber forest products gathered (no. of products)	5		5	5	5	5	5	5	5	5		Non-timber forest products
	Market Channel Sites for Non-timber forest products identified and analysed (no.)			10	7	17	17				17		
RDE project in the FY 2020 proposal pipeline (NEW proposal stage)	RDE proposal reviewed and approved for implementation (no.)			Deferred									

<b>2. Program on Ecosystems Dynamics and Sustainable Management of Coastal and Freshwater Ecosystems</b>													
Project. Ecological Characterization and Carrying Capacity of Puerto Princesa Underground River (July 2019 - June 2020)	Water samples collected and assessed (no.)	36	12	24		72	24		48		72		
	Carbon dioxide and Oxygen concentrations determined (no. of site)					1	1				1	1	Air quality of the Puerto Princesa Underground River (PPUR) were documented/recorded using RS CO2 Detector for carbon dioxide concentration. The assessment was conducted on 6 established permanent sampling stations inside and outside the cave. Traceable meter was used to determine the air temperature & humidity of PPUR.
	Technical information on the biogeochemical processes of Puerto Princesa Underground River (PPUR) generated (no.)					1	1				0	1	Originally the project was extended until December 2020, however, due to travel restrictions imposed by the LGU of Palawan, the management decided to extend the project further until June 2021. The extension shall cover the final interview and analysis of samples for the updating of the carcap model.
	Carrying capacity model of PPUR updated					1	1				0	1	
Project. Development of Pagbilao Mangrove Experimental Forest Station (April 2017 - March 2022)	Mangrove nursery maintained (no.)	2	2	2	2	2	2	2	2	2	2	2	Constant target and continuing activity
	Mangrove experimental plantations maintained (no.)	1	1	1	1	1	1	1	1	1	1	1	Constant target and continuing activity
	Mangrove production protocol developed (no.)			2	3	5	0			5	5		Target is set for 3rd and 4th quarter
	Mangrove growth data gathered and analyzed (no.)	1	1	1	1	1	1	1	1	1	1	1	Constant target and continuing activity
Project. Accounting and Mapping of Ecosystem Carbon Stock of Mangrove Forest and C Losses Arising from Deforestation (June 2018 - May 2021)	Sites surveyed (no.)	2		1	1	4	1				1	3	Survey activities affected by the quarantine.
	Datasets gathered and analyzed - Biomass C Stocks - Soil C Stocks and losses			3	3	6	1		1		2	4	Field is done in Olas, Lagonoy, Camarines Sur Field activities affected by the quarantine.
	Biomass Maps generated (no.)				3	3	0			6	6	+3	maps of aboveground biomass for the first six sites of the project produced; maps are still preliminary and being analyzed for accuracy
<b>3. Program on Promoting Ecosystem Health and Sustainability of Urban Areas through Research and Development</b>													
Project. Solid Waste Management and Climate Change Readiness of Fast Urbanizing Areas (Proposed New Project for 2nd QTR) (April 2020 - March 2022)	Deferred for implementation in compliance to DBM NBC 580												
<b>4. Maintenance of Laboratory in Support to the Centers RDE projects</b>	Laboratory maintained (no.)	1	1	1	1	1	1	1	1	1	1		Continuing activity
<b>F.2.c. Coastal Resources and Ecotourism Research, Development, and Extension Center (CRERDEC)</b>													

1. Program on Ecosystems Dynamics and Sustainable Management of Coastal and Freshwater Ecosystems												
Project. Growth variation in selected mangrove plantations as affected by different habitat conditions in the Philippines (January 2018 - December 2020)	Growth performance and survival rate measured (no. of parameters)	1		5	4	10	2			8	10	Collection of data for Batangas, Davao, Dinagat Islands, and Surigao del Norte was not accomplished due to travel restriction. Sites measured last month were the same ones measured for the month of September
Project. Development of Mangrovetum for Biodiversity Conservation Towards Ecotourism (January 2018 - December 2020)	Growth variation of Mangrove plantations determined (no.)	1	1	1	1	1	1	1	1	1	1	Continous analysis of collected data (survival and growth performance)
Project. Microplastic Contamination Determination of Selected Major Water Bodies of the Philippines (October 2018 - September 2020)	Mangrovetum maintained and protected (no.)	3	3	3	3	3	3	3	3	3	3	Regular target every quarter until project completion on December 31, 2020
	Dataset on physical and growth parameters gathered and analyzed (no.)	3	3	3	3	3	3	3	3	3	3	
RDE project in the FY 2020 proposal pipeline (NEW proposal stage)	Water samples collected and analyzed for microplastic contamination (no. )											Original target is for Apo Reef for summer data, however, data collection was not feasible during the summer season due to country wide community quarantine. Target was removed on the revised FY 2020 WFP of ERDB
	Water bodies assessed with microplastic contamination (no.)	10		10	10	10	0		10	10	10	
2. R&D Program on Emerging Issues												
Carrying Capacity Assessment of Ecotourism Sites (June 2019 - Decemeber 2020)	RDE proposal reviewed and approved for implementation (no.)			Deferred								
Capacity Buidling of DENR personnel on the conduct of carrying capacity assessment	Carrying capacity of ecotourism sites assessed (no. of sites) - Coron and Puerto Galera			2	2	2		on going	2	2	2	Initial assessment shall be done for FY 2020 and to be spearheaded by UBRDEC of Pagbilao, Quezon and UERD of the Main Office since CRERDEC is based on Cebu where air travel is restricted for the meantime. As of September, selection and delineation of assessmer vegetation analysis, and coordination with provincial DTI for tourist a accomplished for Puerto Galera.
	DENR personnel capacitated on carrying capacity assessment of ecotourism sites by cluster (no.)			1	2	3	0			3	3	Online roll-out of CarCap Manual shall be done towards the end of the 3rd quarter and 4th quarter of FY 2020. Roll for Luzon, initially tar 3rd quarter shall be conducted on 19 October 2020.
3. Maintenance of Laboratory in Support to the Centers RDE projects	Laboratory maintained (no.)	1	1	1	1	1	1	1	1	1	1	Constant and continuing activity
F.2.d. Agroforestry Research, Development, and Extension Center (ARDEC)												
1. Program on Forest Ecosystem Resiliency and Sustainability												

Project. Phytological control of cogon ( <i>Imperata cylindrica</i> (L.) Beau) using tree seedlings applied with biofertilizer and combination of NPK and vermicast in degraded ancestral domain area, Talaingod, Davao del Norte	Experimental plots maintained (no.)	36	36	36	36	36	36	36	36	36	36		Quarterly assessment
	Live fence maintained (linear meter)	800	800	800	800	800	800	800	800	800	800		
	Rainfall data monitored (no.)	3	3	3	3	12	3	2	4	3	12		
	Biological datasets collected and analyzed (no.) - survival - height - diameter - health	4	4	4	4	4	4	4	4	4	4		
<b>Project.</b> Control and management of invasive alien species (IAS) ( <i>Piper aduncum</i> L.) to improve productivity and biodiversity of Lake Sebu, South Cotabato	Pilot areas protected, maintained and monitored (has.)	5	5	5	5	5	5	5	5	5	5		
	Dataset (pests and diseases, growth performance, and survival of planted indigenous tree species) collected and analyzed (no.)	3	3	3	3	3	3	3	3	3	3		
<b>Project. Data Integration and Analysis on the Impact of CBFM Livelihood Projects in Selected Areas of the Philippines</b> (Proposed New Project for 3rd QTR) (July 2020 - June 2021)	Live fence maintained (linear meter)	13,000	13,000	13,000	13000	1300	1300	1300	1300	1300	1300		
	Demonstration area/learning site established and maintained (no.)	1	1	1	1	1	1	1	1	1	1		
	RDE project in the FY 2020 proposal pipeline (NEW proposal stage)												
2. Maintenance of Laboratory in Support to the Centers RDE projects	Laboratory maintained (no.)	1	1	1	1	1	1	1	1	1	1		Plant tissue and Soil Laboratory located at Nabunturan, Compostela Valley
<b>F.2.e. Forest and Wetland Research, Development and Extension Center (FWRDEC)</b>													
<i>1. Program on Forests Ecosystem Resiliency and Sustainability</i>													
Project. Performance of different cloned climax species interplanted in existing tree plantation within mined-out areas of Carmen Copper Corporation (CCC) (May 2017 - December 2021)	Growth performance dataset (survival, height, diameter, and health status) collected (no.)	1	1	1	1	1	1	1	1	1	1		Quarterly data gathering
	Installed micro-climate device monitored, maintained, and protected (no.)	1	1	1	1	1	1	1	1	1	1		
	Experimental plots monitored, maintained, and protected (no.)	3	3	3	3	3	3	3	3	3	3		

	Database on micro-climatic data updated (no.)	1	1	1	1	1	1	1	1	1	1		
	Soil samples collected and analyzed for NPK and heavy metals (no.)	22		22		44	22			22	44		September target. Collection soils was not done and shall look into the possibility of collecting said samples on the 4th quarter.
Project. Establishment of Demonstration Areas (September 2018 - August 2022)	Demonstration area maintained and monitored (no.)	4	4	4	4	4	4	4	4	4	4		Continuing activity
	Growth dataset collected (no. of sites)	4	4	4	4	4	4	4	4	4	4		Quarterly assessment. Data collection was done only for 3 sites. Last done on the 4th quarter.
Project. Development of Propagation and Plantation Establishment and Management Protocol of Lapnisan (Aquilara spp.) (Proposed New Project for 3rd QTR) (July 2020 - June 2025)				Deferred									
<b>2. Program on Ecosystems Dynamics and Sustainable Management of Coastal and Freshwater Ecosystems</b>													
Project. Greenhouse gas (GHG) flux measurements and microbial diversity assessment in disturbed and managed peatlands (January 2018 - Dec. 2019)	Soil and water quality assessed (no. of sites)			1		1	0			1	1		GHG and carbon collection in Caimpugan peatland for the 3rd quarter was cancelled due to COVID 19. Travel arrangements were already done for the site assessment on the 4th quarter.
	GHG flux measurements measured (no. of sites)			1		1	0				0	1	Analysis was not done due to the late processing of samples. The project requested for an extension for FY 2021 with no additional fund.
	Emission rate of Greenhouse gasses (GHG) within peatland area determined (no. of GHG)				3	3	0				0	3	to process and analyse the data and preparation of completion report
Project. Inventory, Survey, Mapping, and Assessment of Philippine Peatland Forest Areas (Proposed New Project for 3rd QTR) (July 2020 - June 2025)				Deferred									
RDE project in the FY 2020 proposal pipeline (NEW proposal stage)	RDE proposal reviewed and approved for implementation (no.)			Deferred									
<b>3. R&amp;D Program on Emerging Issues</b>													
Development of Integrated Pest Management for Industrial Tree Plantation Species (ITPs) and other Forest Plantations in Mindanao in Response to Climate Change (January 2018 - December 2020)	Database developed and maintained (no.)	2	2	2	2	2	2	2	2	2	2		
	Dataset on pests and diseases infestation collected and analyzed (no.) - incidence - disease severity - plant height - root collar diameter	4		4	4	4	4	4	4	4	4		
	Project sites surveyed and monitored (no.)	3	3	3	3	12		2	8	4	14	+2	

	GIS map on Pest and Disease distribution generated (no.)	3	3	3	3	12	3	1	5	3	12		
	Key pests and diseases in forest nurseries/ITPs/other forest plantations identified and mapped (no.)	var.	var.	var.	var.	2	2	2	2	2	2		
	Integrated pest and disease management strategies for ITPs evaluated (no.)				1	1				1	1		
	Economic Threshold Level (ETL) and Economic Injury Level (EIL) models of major pest of Falcata developed (no.)				1	1				1	1		
4. Maintenance of Laboratory in Support to the Centers RDE projects	Laboratory maintained (no.)	1	1	1	1	1	1	1	1	1	1		Constant target and continuing activity
<b>F.2.f. Toxic and Hazardous Wastes Research, Development, and Extension Center (THWRDEC)</b>													
<i>1. Program on Promoting Ecosystem Health and Sustainability of Urban Areas through Research and Development</i>													
Project. Development of low-cost adsorbents from rice, coconut, sugarcane and maize residues for the removal of hexavalent chromium in tannery wastewater (October 2018 - September 2020)	Adsorption Kinetic parameters determined (no. of sets)			4		4	0			4	4		Adsorption Kinetic Experiments were performed. A total of 72 samples submitted for Cr(VI) analysis. The results are expected by end of
	Adsorption Equilibrium parameters determined (no. of sets)			4		4				4	4		Adsorbents were collected. Sample collection from tanneries in Meycauyan are being coordinated.
	Water quality parameters determined (no. of datasets)				4	4	0			1	1	3	Samples for FTIR characterization were submitted for analysis, results are expected next year (FY 2021). Due to limited number of available orbital shaker and insufficient time to perform the experiments brought about by the delayed activities, a 3 month extension was requested to attain the remaining targets and preparation of completion report.
	Low-cost adsorbents characterized thru Fourier Transform Infrared (FTIR) spectroscopy and Scanning Electronic Microscope (SEM)				12	12						0	12
Project. Screening of selected bamboo species capable to uptake heavy metal pollutants from the soil (October 2018 - June 2020)	Heavy metal content analyzed (no.) (lead, mercury, cadmium, arsenic, chromium).		4	4		4	0		4		4		On going activities. Prepared bamboo tissue samples and submitted to Intertek for heavy metal analysis.
	Heavy metal absorptive capacity of selected bamboo species determined (no.)			6		6				6	6		
Project. Development of Barangay Management System for Household Hazardous Wastes in Quezon City, Metro Manila (NEW) (February 2020 - March 2021)	Sites identified (no.)	3				3				3	3		Three (3) small group meetings were conducted in the Barangay Hall of the 2 barangays. Signing of the Memorandum of Agreement was also conducted during the said meetings. Analysis of data (survey) shall be done on the 1st and 2nd quarter of FY 2021 due to delayed survey brought about by the community quarantine in NCR.
	Respondents interviewed (no.)			368		368				237	237	131	
	Datasets gathered (no.)				3	3							
	Barangay HHWs management system proposed (no.)				1	1							



Project. Bioremediation of Wastewater Quality in Selected Esteros and Pasig River Tributaries using Asian Clams ( <i>Corbicula flumenea</i> ) (Proposed New Project for 3rd QTR) (July 2020 - June 2021)														
RDE project in the FY 2020 proposal pipeline (NEW proposal stage)	RDE proposal reviewed and approved for implementation (no.)													
<b>Deferred</b>														
<b>Deferred</b>														
<b>Project Management and Supervision</b>														
<b>Fixed Expenditures and Mandatories</b>														
														Mandatories such as electricy, water, and the likes GAD impositions Youth impositions Senior impositions Anti Red Tape impositions
<b>III. Operations</b>														
<b>MOOE and CO</b>														
<b>A. Natural Resources Conservation and Development Program</b>														
<b>Forest and Watershed Management Sub-Program</b>														
<i>Forest Development, Rehabilitation and Maintenance and Protection</i>														
1. Maintenance and Operation of Clonal Nurseries and Production of Quality Planting Materials	Clonal nurseries maintained (no.) Quality planting materials of idigenous forest tree species produced (no.)	6 30,000	6 30,000	6 6	6 6	6 60,000	6 37,479	6 6	6 6	6 41,046	6 78,525	+18525		Ongoing maintenance and operation of clonal nurseries
ERDB Main Office		1 5,000	1 5,000	1 1	1 1	1 10,000	1 16,615	1 1,999		1 1	1 18,614	(8,614)		Mortality contingency normally around 10 to 20%, up to a high of 25%. Provision of 19 to 30% for mortality allowance.
Research Centers:														
1) WWRRDEC		1 5,000	1 5,000	1 1	1 1	1 10000	1 5,080	1 7,135	40		1 12,255	(2,255)		
2) UBRDEC		5,000	5,000	1	1	10000	1	7,455	2,545		10,000	-		
3) CRERDEC		5,000	5,000	1	1	10000	3,659	4,639	1,867		10,165	(165)		
4) FWRDEC		5,000	5,000	1	1	10000	6,000	7,568			13,568	(3,568)		
5) ARDEC		5,000	5,000	1	1	10000	6,125	5,100	2698		13,923	(3,923)		
2. Plantation Establishment and Development	Area planted (has.)			60	60	120				120	120			Targets are set for 3rd and 4th Quarter
ERDB Main Office				10	10	20				20	20			Out-planting shall commence on September 2020
Research Centers:														
1) WWRRDEC				10	10	20				20	20			Out-planting shall commence on September 2020
2) UBRDEC				10	10	20				20	20			
3) CRERDEC				10	10	20				20	20			
4) FWRDEC				10	10	20				20	20			
5) ARDEC				10	10	20			15	5	15			
3. Maintenance and Protection of Established Developed Plantations for the 1st year	Plantation maintained and protected (has.)				120	120				120	120	120		Targets are set for 4th Quarter

ERDB Main Office Research Centers: 1) WWRRDEC 2) UBRDEC 3) CRERDEC 4) FWRDEC 5) ARDEC					20	20				20	20	20		
					20	20				20	20	20		
					20	20				20	20	20		
					20	20				20	20	20		
					20	20			15	20	20	20		
					20	20				5	20	20		
4. Maintenance and Operation of Production Area and Production of Hi-Q Vam 1	Production facilities maintained and operationalized (no.)	4	4	4	4	4	4	4	4	4	4		Ongoing maintenance and operation of Hi-Q Vam1 facilities	
	Hi-Q Vam 1 inoculants harvested and packed with acceptable spore count, viability, and purity (tons)			200		200					345	345.1	+145	Targets are set for 2nd - 4th quarters
	Hi-Q Vam 1 distributed to DENR Regional offices (tons)	134				134	7.8	5.6	2.65		10.45	26.5	117.95	
5. Maintenance/Operationalization of Forest Tree Seed Centers (FTSC)	Forest Tree Seed Center (FTSC) maintained/operationalized (no.)	6	6	6	6	6	6	6	6	6	6		Constant target and continuing activity	
ERDB Main Office Research Centers: 1) WWRRDEC 2) UBRDEC 3) CRERDEC 4) FWRDEC 5) ARDEC		1	1	1	1	1	1	1	1	1	1	1		
		1	1	1	1	1	1	1	1	1	1	1		
		1	1	1	1	1	1	1	1	1	1	1		
		1	1	1	1	1	1	1	1	1	1	1		
		1	1	1	1	1	1	1	1	1	1	1		
	Phenological calendar updated (no.)	3	7	7	7	24	2	22	15	38	77		+53	
	Seeds validated (species/seedlot)	var.	var.	var.	var.	var.	5	7		4	16			
	Seed documented and registered (no.)	15	25	25	25	90	15	6	28	35	84		6	Target is set for 2nd quarter
	Seed protocol developed (no. of species)	1	3	7	7	18	2	4	9	5	20		+2	
	Seed disposed and distributed (no.)	var.	var.	var.	var.	var.	-	10	9		19			
6. Other Related Activities														
a) Impact Assessment of 2015 NGP sites	NGP sites assessed (no.)			6	3	9		on going preparation		11	11		+2	On going coordination with PENROs/CENROs regarding travel protocol requirements in relation to COVID 19
	Database system on the biological, physical, socio-economic, and spatial characteristics of assessed 2015 NGP sites developed (no.)				1	1							1	Updating of database shall be done after data collection
	Executive summary submitted (no.)				11	11							11	
b) Special studies	Special studies conducted (no.)	2	2	2	2	2			2	2	2		2	
b.1. Growth performance of seed planting materials from different sources (MMNF, Clonal, PO)	Planting materials produced thru MMNF, Clonal, and PO (no.)	Deferred												
	Experimental sites established (sites)	Deferred												
	Growth data gathered (no.) - survival, height, diameter													

b. 2. Carbon sequestration potential of selected NGP sites	NGP sites assessed for carbon sequestration potential (no. of provinces)	Deferred												
	Inputs to policy on carbon sequestration provided (no.)	Deferred												
b. 3. Assessment of Field performance of Planted QPMs for NGP	Experimental sites maintained (no.)	3	3	3	3	3	3	3	3	3	3	3		
	Quality Planting Materials (QPMs) assessed (datasets per site) - diameter, height, survival	3	3	3	3	3	3	3	3	3	3	3		
b. 4. Time and Motion study on the Production of QPMs using rooted cuttings through macro-somatic cloning and seed-based propagation technologies	Seedlings produced (no.)		300	300		600		0			0	600		Collection of seeds was put on hold due to community quarantine. Production of seedlings shall be done upon collection of seeds.
	Cuttings produced (no.)		600			600		700			700	100+		
	Efficiency of propagation technologies assessed and documented (no.)				2	2	2				1	1	1	Propagation thru seeds was not assessed since no seeds were collected for this year. The seedling production shall be done by the 2nd quarter of FY 2021.
b.5. Soil Mapping for the preparation of Forest Soils Map	Soil properties/parameters analyzed (no.)													
	Maps generated (no.)													
c) Maintenance and protection of experimental forests	Experimental forests maintained and protected (no.)	24	24	24	24	24	24	24	24	24	24	24	0	Constant target and continuing activity
ERDB Main Office (maintained under LESD)		1	1	1	1	1	1	1	1	1	1	1		
Research Centers:														
1) WWRRDEC		4	4	4	4	4	4	4	4	4	4	4		
2) UBRDEC		5	5	5	5	5	5	5	5	5	5	5		
3) CRERDEC		6	6	6	6	6	6	6	6	6	6	6		
4) FWRDEC		7	7	7	7	7	7	7	7	7	7	7		
5) ARDEC		1	1	1	1	1	1	1	1	1	1	1		
d) Conduct of Trainings/Workshops/Seminar	Trainings/workshops/seminars conducted (no.) - Phenological calendar and seed testing - Carbon Sequestration Potential	Deferred												
	IEC materials produced (no.)													
e) Technical assistance/support to NGP Regional implementers	Technical assistance provided (no.) - Turned-over clonal nurseries - De-listed Seed sources - Bamboo Plantations - Mangrove Plantations	var.	var.	var.	var.	var.	3					3		
	Guidelines/Techno Bulletin on the Monitoring & Evaluation of Mangrove and Beach Forest finalized (no.)				1	1						0	1	
f) UPLB project (Integrated Research and Development for High Value Forest Crops)	Propagation protocols of high value forest crops developed (no.)				3	3							3	Funds to be downloaded to 'UPLB with Separate "work and financial plan. No accomplishment report yet was submitted by UPLB to ERDB.
	DNA analyzed (no. of population)			20	20	20							20	
	Field gene bank maintained (ha.)		0.5	0.5	0.5	0.5							0.5	
7. Project Management and Supervision ERDB Main Office														

a) Joint Assessment and Evaluation	Sites monitored and evaluated (no.) - Turned-over clonal nurseries (regions) - Distribution and use of Mycorrhiza Mycorrhiza (regions) - Retained Seed sources (sites) - Bamboo Plantations (regions) - Mangrove Plantations (regions)			10	6	16				16	16		Activity on hold due to ECQ. In the meantime, requests will be accommodated through online platforms. Initial arrangements were made for ERDB Research Centers to conduct monitoring in their respective areas of jurisdiction.
			6	6	4	16				8	8	8	
		2	6	5	2	15				1	1	14	
		5	5	3		13				6	6	7	
b) Submission of Reports	Report prepared and submitted (no.) - Monthly - Quarterly - Semi-annual - Annual						3	3	3	3	12		
							1	1	1	1	4		
							0	1		1	2		
							0			1	1		
c) Conduct and participation in the NGP consultation meetings/workshops	NGP consultation meetings/workshops attended (no.)	var	var	var	var	var	2	1			3		
8. Hiring of Project Development Officers	Project Development Officers hired (no.)	4	4	4	4	4	4	4	4	4	4		
<b>B. Environmental and Natural Resources</b>													
Natural Resources Assessment Sub-Program													
B.1. Vulnerability Assessment													
1. Provision of technical assistance in the inclusion of climate resiliency aspect in the implementation of vulnerability assessment	Vulnerability assessment implementation assisted (no.)			14		14			2	12	14		
2. Review of 2019 VA reports submitted by regional offices with characterization report	Vulnerability assessment reports reviewed and evaluated (no.) (CY 2019 targets)	3	3			6	5	4		10	19	+13	Accomplishment is based on actual requests made by the concerned offices. Four WCVA and one IWMP reports from Regions 1 and 13 were forwarded by FMB for review.
	Workshop/training on vulnerability assessment report writing conducted (no.)				1	1						1	The target activity was postponed and scheduled on January 2021. This is due to limited time, logistics preparation has not been made on the set scheduled. Also, as per information from VA focal, other regions are still on-going on their data analysis and map generation. Furthermore, COVID-19 pandemic is one factor that delays the field implementation of the project.
B.2. Natural Resources Accounting and Valuation Program													
1. Conduct of workshop/training	Ecosystem Valuation training module prepared (no.)				1	1		on going	on going	1	1		Ecosystem Valuation Training Module 1
2. Conduct of Resources Valuation study	Ecosystem services valued (no.)												
PMS and M&E													
Fixed Expenditures/Mandatories													

Prepared by:

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Recommended by:

Approved by:



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