







II. Support to Operations (STO)											
A. Data Management including Systems Development and Maintenance											
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	4.00	0.00
	ICT equipment procured and maintained (no.)	var	var	var	var	var	var	var	far		
2. Updating, maintenance and management of websites and LAN	Website updated/maintained (no.)	1	1	1	1	1	1	1	1	1.00	0.00
	Internet connection via DSL maintained (no.)	1	1	1	1	1	1	1	1	1.00	0.00
3. Review and validation of reports on ENR statistics	Sectoral statistics reviewed/consolidated and validated (no.)	7		7		14	7	0		7.00	7.00
	DENR Statistical Committee Meetings attended (no.)	var	var	var	var	var	var	var	var		
RLIP											
B. Production and Dissemination of Technical Popular Materials in the Conservation and Development of Natural Resources and Environmental Education, including an Encyclopedia on Biodiversity											
1. Packaging and publication of ENR generated technologies/information (technical and popular publications)	ENR technical and popular materials packaged and produced (no.)										
	- Canopy International (no. of issues)		1		1	2	0	3		3.00	-1.00
	- Sylvatrop (no. of issues)			1	1	2	0	0		0.00	2.00
	- RISE (no. of new issues)		1		1	2	0	0		0.00	2.00
	- RISE (no. of copies)	150	150	150	150	600	0	0		0.00	600.00
	- ERDB Infojournal articles edited and layouted (no.)	2	2	2	2	8	2	6		8.00	0.00
	- ERDB Annual Report 2020 produced (no. of copies)		150			150	0	0		0.00	150.00
	Audio Visual Services provided (no. of major activities documented)	2	2	2	2	8	2	3		5.00	3.00
	Annual Technical Seminar (ATS) conducted (no.)		1			1	0	1		1.00	0.00
	Knowledge Products mailed to regular subscribers (no.)	300	300	300	300	1200	1481	1343		2824.00	-1624.00
	Knowledge Products distributed to walk-in clients (no.)	200	200	200	200	800	43	28		71.00	729.00
2. Maintenance of ENR Library	ENR Library maintained (no.)	1	1	1	1	1	1	1		1.00	0.00
RLIP											
C. Legal Services including Operations Against Unlawful Titling of Public Land											
1. Review of MOAs/MOUs	MOAs/MOUs reviewed (no.)	6	7	7	5	25	17	11		28.00	-3.00
											1. MOA between ERDB and BSU
											2. MOA between ERDB and La Paz
											3. MOA Between ERDB and Bell Petron
											4. Contract of Service BSU
											5. MOA among ERDB; Municipal Gov't of La Trinidad Benguet; Benguet State University
											6. MOA between ERDB and Baguio City
											7. CarCap



	Conduct of Research Sector Management Conference/ consultation workshops/strategic planning/meetings (no.)	1	1	1	1	4	1	2		3.00	1.00	1. 1st ERDB Management Conference held last 16-17 March 2021 via Zoom 2. Planning and Budgeting 101 on 06-07 May 3. 2nd ERDB Management Conference held last 24-25 June 2021.
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	0	0		0.00	1.00	
3. Submission of Accomplishment Reports	Physical and Financial Accomplishment reports (ParFar) submitted (no.)	2	3	3	4	12	3	3		6.00	6.00	Submitted the Parfar report for the months of December 2020, January, February, March April 2021, and May 2021.
	Quarterly Accomplishment reports submitted		1	1	2	4	1	1		2.00	2.00	Submitted the 4th quarterly report for 2020 Submitted the 1st quarterly report for 2021
	Annual Report submitted (no.)	1				1	1	0		1.00	0.00	
4. Provision legislative assistance to Congress	Assistance provided to Congress (no.)	var	var	var	var	var	var	var				
5. Formulation of RDE Program on Climate Change	RDE Program formulated (no.)				1	1	0	0		0.00	1.00	
6. Review/Revision/Submission of draft policy	Policies recommended based on - Research projects (no.) - Management instructions (no.)				2 1 1	2 1 1	0 0 0	0 0 0		0.00 0.00 0.00	2.00 1.00 1.00	
<i>RLIP</i>												
<b>E. Ecosystems Research, Development and Extension Services</b>												
<b>E.1. ERDB Main Office</b>												
<b>E.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	RDE proposals/projects/outputs on Forest Ecosystem reviewed and evaluated (no.)	4	4	4	4	16	4	4		8.00	8.00	
	RDE project proposals endorsed for approval (no.)				3	3		1		1.00	2.00	Endorsed the project of the Watershed and Water Resources RDE Center titled "Water Balance Estimation in Different Climatic Types in Luzon Island Philippines" for ERDB ExeCom deliberation and proposed implementation on August 2021.
2. Research Gap Analysis on Forest Ecosystem	Meetings with other Bureaus/ Offices conducted/attended (no.)	5	5	8	7	25	22	9		31.00	-6.00	
	Draft RDE agenda on forest ecosystem for FY 2023-2028 prepared (no.)				1	1				0.00	1.00	Consultation with FMB, BMB, and Philippine Bamboo Industry Development Council Webinar on Bioremediation to Restore Life and Ecosystems: A Science Experience for Policy Considerations in the Philippines organized by Forest Development Center (FDC) of UPLB
3. Provision of technical assistance related to Forest Ecosystems	Technical assistance provided to various stakeholders (no.)	3	3	3	3	12	6	2		8.00	4.00	- Resource Persons re: Learning event on the Establishment of Bamboo in Mining Areas dated March 11-12, 2021 - TA for Mr. Vincent John Augustin of Taguig on List of Local/Native Tree Species in the Philippines on June 9-13, 2021. - A for Leviste Farm re: Deployment of staff for the Rapid Resource Assessment of the private

<b>E.1.b. Formulation, Coordination, and Monitoring of RDE programs/projects/studies on Coastal and Freshwater Ecosystems</b>										farm in Lipa, Batangas on June 3, 2021	
1. Formulation of Research Directions on Coastal and Freshwater Ecosystems for RDE Centers	RDE proposals/projects/outputs on Coastal and Freshwater Ecosystems reviewed and evaluated (no.)			12	12	2	7		9.00	3.00	1.Comparative study on heavy metal accumulation in mangroves 2.GIS evaluation and pollution assessment of heavy metals contamination in surface water and streambed sediments of Marilao-Meycauayan-Obando River System (MMORS) Philippines 3. Development of PMEF and long-term monitoring of surrounding mangrove forests (March 2021) 4. Re-evaluation of the revised proposal on Development of an in-situ phytoremediation scheme for Phosphates and Nitrates in Wastewater from Households along Dalig Creek 5. Microplastics in surface water, sediments, and fish in Taal Lake, Nauhan Lake and Buhi Lake 6. Endocrine disruptors in Taal Lake, Nauhan Lake and Buhi Lake: Occurrence, Distribution, and Risk assessment 7. Assessment of Community Perception and Local Ecological Knowledge on Emerging Pollutants in Taal Lake, Batangas, Naujan Lake, Mindoro, and Lake Buhi, Camarines Sur Through Participatory Rural Appraisal 8. Determination of Air Pollution Tolerance Index (APTI) and Heavy Metal Sorption Capacity of Plants used in Vertical Garden and Urban / Peri-Urban Planting 9. Assessment of Heavy Metals Toxicity and Fecal Coliform Contamination in Asian Clams (Corbicula fluminea) from Selected Freshwater bodies in Luzon
	RDE project proposals endorsed for approval (no.)				3	3			0.00	3.00	
2. Research Gap Analysis on Coastal and Freshwater Ecosystems	Meetings with other Bureaus/ Offices conducted/attended (no.)	2	2			4	2	2	4.00	0.00	- Consultation meeting with HARBON Foundation and MBFDS on March 5, 2021 - Data assembly for coastal resources monitoring in Snake Island, Puerto Princesa, Palawan with DENR-PENRO Palawan on March 15, 2021 - Consultation meeting with BMB on March 29, 2021 - Training-Workshop on Basic Valuation, Concepts and Methodologies with DENR Offices on April 19-22, 2021 - Training-Workshop on Carbon Stock, Sequestration and Valuation with DENR Offices on May 5-7, 2021
	Draft RDE agenda on coastal & freshwater ecosystems for FY 2023-2028 prepared (no.)				1	1			0.00	1.00	
3. Provision of technical assistance related to Coastal and Freshwater Ecosystems	Technical assistance provided to various stakeholders (no.)	10	10	10	10	40	12	8	20.00	20.00	The concerns of these TAs are as follows: 1. Request for endorsement to conduct an interview with a representative from our office; Copy/Lists and records of (1) Space requirements needed for research facility of Mangrove Conservation (2) Staff/Position involved in a research facility (3) Eco-museum space requirements 2. Request/Query for information in relation for thesis proposal about "Underwater Biobank Facility. A preservation for living Corals". 3. Request for inclusion on the series of





												capacity of Plants Used in Vertical/Urban Planting in Metro Manila
												2. Development f LGU Managed Parks (Terminal Report)
												3. Screening of Selected Bamboo Species Capable to Uptake Heavy Metal Pollutants from the Soil
												4. Social Acceptability of the Floating Garden Project in Brgy. Pulang Lupa Uno, Las Piñas
												5. Completion Report: Documentation of Indigenous Knowledge Practices on Weather and Climate Forecasting of Selected tribes of Cordillera Administrative Region (CAR)
												6. Development of Urban Area Readiness Index for Rapidly Urbanizing Areas
												7. Determination of Air Pollution Tolerance Index (APTI) and Heavy Metal Absorption Capacity of Plants used in vertical /Urban Planting in Metro Manila.
												8. Socio-economic Impact of the Implementation of the Land Distribution Program through Proclamation/Human Settlement Project to some beneficiaries.
	RDE project proposals endorsed for approval (no.)				3	3	2	0			2.00	1.00 Endorsed the project of the Toxic and Hazardous Wastes RDE Center titled "Healthcare Waste (HCW) Management Practices by Non-Hospital-based Clinical Laboratories in Selected Cities in Metro Manila" implemented April 2021
												Endorsed the project of the Watershed and Water Resources RDE Center titled "Assessment of the Prevalence of Sinkholes in Baguio City" implemented June 2021.
2. Research Gap Analysis on Urban Ecosystem	Meetings with other Bureaus/ Offices conducted/attended (no.)	3	3	4	4	14	6	24			30.00	-16.00 DENR, other Government offices, and Stakeholders
												1. Meeting with USEC Analiza Teh, ASEC Cora Davis, and Execom Member of ERDB
												2. Levelling off Meeting with LGU-Coron, Region 4B, PENRO Palawan, and CENRO Coron
												3. SEARCA Webinar titled "Jurisdiction Sustainability approach for Climate Change initiatives in the Forestry and Natural Resources Sector
												4. Introduction to GAD Concepts and SOGIESC
												5. Levelling off meeting with LGU Coron R4B, PENRO Palawan, and CENRO Coron
												6. Webinar on Women's Role in Environment and Natural Resources-Friendly Livelihood
												7. Overview of Circular Economy (Nature - based Solutions/Constructed Wetlands)
												8. Restore Our Earth: Wetland and Restoration thru Circular Economy
												9. Wealth Accounting and Valuation Ecosystem Exploratory Meeting
												10. Consultation Meeting on Updating of Philippine Red List
												11. Round table discussion with EMB, BMB, MGB, and FMB
												12. Meeting with USEC Jonas Leones regarding Manila Bay White Beach
												13. Meeting with Sen. Cynthia Villar regarding the



Project 1. Technology Assessment, Classification and Packaging of ENR Technologies													
ERDB Main Office													
- Development of ERDB Technology Packaging Protocol (TPP)	TPP developed (no.)		1		1	0	1			1.00	0.00		
	Copies of TPP reproduced (no.)			100	100	0				0.00	100.00		
	Roll out conducted (no.)			6	6	0				0.00	6.00		
- Technology Characterization	Mentoring writeshop conducted (no.)	1			1	1	1			2.00	-1.00		

	Technology Characterization Reports reviewed (no.)		2	2	2	6	2	2		4.00	2.00	
- Technology Assessment	ENR technologies assessed (no.)		2	2	2	6	2	2		4.00	2.00	
- Development and Maintenance of ENR Database	Database developed and maintained (no.)	1	1	1	1	1	1	1		1.00	0.00	
- Results-Based Monitoring and Evaluation (RBME) of RDECs with Technical Divisions	RBME participated (no.)		1		1	2	0	1		1.00	1.00	
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 (Main Office)	TNA monitoring reports consolidated (no.)			2	2	4	0	3		3.00	1.00	
- Conduct of TNA (RDECs)	Survey or assessment conducted (no.)	2	2	1		5		5		5.00	0.00	
Activity 2. Implementation and Monitoring of Strategic Communication Plan												
- Monitoring of Strategic Communication Plan implementation (Main Office)	Extension sites monitored (no.)			3	3	6	0			0.00	6.00	
	Monitoring reports consolidated (no.)			3	3	6	0			0.00	6.00	
	Monitoring reports analyzed (no.)			3	3	6	0			0.00	6.00	
	Recommendation based on findings formulated (no.)			3	3	6	0			0.00	6.00	
- Implementation of Strategic Communication Plan (RDECs)												
a. Partnership (with public and private organization)	Stakeholders partnered (no.)	1	4		1	6	2	3		5.00	1.00	WWRRDEC, ARDEC
b. Capacity building	Trainings conducted (no.)		3	6		9	1	1		2.00	7.00	WWRRDEC
	Training reports prepared and submitted (no.)		3	6		9	0	1		1.00	8.00	
	Action plan prepared (no.)		1	2	1	4	0	1		1.00	3.00	
c. IEC campaign for promotion of ENR technologies (showcase of ENR technologies)	Techno-forum/seminar/symposium/ educational tour conducted (no.)	1	3	2	2	8	0	3		3.00	5.00	
	Techno-forum/seminar/symposium/ educational tour report prepared and submitted (no.)	1	3	2	2	8	0	2		2.00	6.00	
	IEC materials produced (no.)		1	1		2	0	1		1.00	1.00	
	Demo Area/Show windows	1	1	1	1	1	1	0		1.00	0.00	WWRRDEC

	improved and maintained (no.)											
	Exhibit conducted/participated (no.)		1	2		3	0	1			1.00	2.00
	Radio guesting conducted (no.)	1	1	1	1	4	1	1			2.00	2.00 ARDEC
	Show window established (no.)				1	1	0				0.00	1.00
d. Progress Tracking	Monitoring activities conducted (no.)	6	8	6	7	27	5	6			11.00	16.00
	Progress report prepared and submitted (no.)	4	5	4	5	18	6	5			11.00	7.00
Activity 3. Strategic Communication Plan (Main Office and RDECs)	Strategic Communication Plan 2020-2021 reviewed (no.)	6				6	5	0			5.00	1.00
	Strategic Communication Plan consolidated (no.)				6	6	0	0			0.00	6.00

	Strategic Communication Plan prepared and submitted (no.)	1		1	3	5	0	1			1.00	4.00
	KAP Survey/Stakeholder Analysis report prepared and submitted (no.)	2		7	7	16	2	0			2.00	14.00 WWRDEC
	Technology promotion report prepared and submitted (no.)				1	1	0	0			0.00	1.00
Activity 4. Database Development and Management	Database developed and managed (no.)	7	7	7	7	7	7	7			7.00	0.00
Project 3. IEC Campaign on Research Based Information for Sustainable Ecosystems Management												
ERDB Main Office RDE Centers												
Activity 1. Production of Printed Knowledge Products and IEC Materials												
- Production of Printed Knowledge Products and IEC Materials (Main Office and RDECs)	(Main Office)			1		1	0	0			0.00	1.00
	- TTE Framework 2022 - 2026 (Manual) prepared (no.)			1		1	0	1			1.00	0.00
	- Enhanced techno transfer and extension workshop report prepared and submitted (no.)	1				1	0	1			1.00	0.00
	- Booklet on Success stories on Bamboo produced (no.)			1		1	0	0			0.00	1.00
	- Sylvatrop printed (no. of copies)			500	500	1000	0	0			0.00	1000.00
	- Canopy International printed (no. of copies)			1000	1000	2000	100				100.00	1900.00
	(WWRDEC)											
	- Flyers produced (no. of copies)			500		500	0	0			0.00	500.00
	- Coffeetable Book produced (no. copies)	300				300	0	300			300.00	0.00
	- Briefing kits produced (no. of copies)			500		500	0	0			0.00	500.00
	- TeKnow Comics (no. of copies)				500	500	0	0			0.00	500.00
	(UBRDEC)											
	- Poster produced (no. of copies)	200				200	0	0			0.00	200.00
	- Brochure produced (no. of copies)		500			500	0	0			0.00	500.00
	- focused IEC collaterals produced (no.)			500		100	0	0			0.00	100.00
	- UBRDEC Experimental Forests Booklet (no. of copies)				100	100	0	0			0.00	100.00
	(THWRDEC)											
	- IEC materials printed/produced (no.)		2	3		5	0	3			3.00	2.00
	- IEC materials distributed to clientele/stakeholders (no. of copies)	100	200	400	300	1000	113	205			318.00	682.00
	(CRERDEC)											
	- Fact sheet printed (no. of copies)			100		100	0	0			0.00	100.00
	- Branding collaterals produced (no. of pieces)		100			100	0	100			100.00	0.00
	(ARDEC)											
	- Briefing kits produced (no. of copies)		100			100	0	100			100.00	0.00
	- Primer produced (no.)		200			200	0	200			200.00	0.00
	- Poster of technology being promoted produced (no. of copies)			200		200	0	0			0.00	200.00

	- Coffeetable Book of Agroforestry Best Practices produced (no. of copies)				10	10	0	0			0.00	10.00
Activity 2. Mass Media Campaign of Ecosystem Technologies (Main Office and RDECs)	Web Media Releases published (no.)	20	21	20	21	82	18	31			49.00	33.00
	Ecoklaro episodes uploaded (no.)		1		1	2	1	2			3.00	-1.00
	Social Media pages maintained/updated (no.)	7	7	7	7	7	7	7			7.00	0.00
	ENR infographics/stories/photo releases uploaded (no.)	27	28	28	28	111	38	28			66.00	45.00
	Increased Facebook followers (no.)	375	375	375	375	1400	392	620			1012.00	388.00
	TV/Radio guestings facilitated/coordinated (no.)	8	9	8	7	28	2	10			12.00	16.00

Activity 3. Visual Communication of Ecosystem Technologies (Main Office and RDECs)	Technology exhibitions produced (no.)	1	3	3	1	8	0	1		1.00	7.00
	Exhibit viewers' feedback reports prepared (no.)	1		2	1	4	1	0		1.00	3.00
	Exhibit posters designed (no.)	5			5	10	5	0		5.00	5.00
	Audio Visual Production (AVP) produced (No.)	2	4	6	6	18	2	3		5.00	13.00
Activity 4. Technical Assistance (TA) for ERDB Clients (Main Office and RDECs)	Database of TA (conducted) updated (no.)	1	2	2	2	2	2	2		2.00	0.00
	Consolidated TA reports prepared and submitted (no.)	3	4	5	4	16	4	1		5.00	11.00
	Database of TA Resource Persons maintained (no.)	1	1	1	1	1	1	1		1.00	0.00
	TA provided (no.)	9	10	11	10	40	20	4		24.00	16.00
Activity 5. Database Management for Production of IEC Materials (Main Office and RDECs)	Database management for production of IEC materials managed/maintained (no.)	6	6	6	6	6	6	6		6.00	0.00
	Consolidated IEC reports prepared and submitted (no.)	2	2	2	2	8	3	1		4.00	4.00
Project 4. Evaluation of Transferred ENR Technologies cum Documentation of Success Stories of Adoption											
ERDB Main Office											
Activity 1. Evaluation of Transferred ENR Technologies	Evaluation tool developed (no.)	1				1	100%	100%		100%	0.00
	Adopters of ENR Technology interviewed (no.)		10	10	10	30	0	10		10.00	20.00
	Datasets gathered and analyzed (no.) (Socio-economic data, Factors affecting adoption, Recommendations)		3	3	3	3	0	0		0.00	3.00
	Evaluation reports with policy recommendations prepared and submitted (no.)				1	1	0	0		0.00	1.00
Activity 2. Documentation of Success Stories of Technology Adoption	Conceptualization workshop conducted (no.)	1				1	1	0		1.00	0.00
	Workshop/writeshop on consolidation and processing of data/materials conducted (no.)		1	1	1	3	0	0		0.00	3.00
	Set of data/materials processed (no.) (LGU, Business Enterprise, PO/Private Individual)		1	1	1	3	0	0		0.00	3.00
	Field validation and documentation conducted (no.)		1	1	1	3	0	0		0.00	3.00
	Booklet drafted/layouted (no.)				1	1	0	0		0.00	1.00
	Printed IEC material produced (no. of copies)				200	200	0	0		0.00	200.00
<b>E.2. Research, Development and Extension</b>											





<b>2. Program on Promoting Ecosystem Health and Sustainability of Urban Areas through Research and Development</b>											
<b>Project.</b> Assessment of the Prevalence of Sinkholes in Baguio City ( <i>Proposed New Project for 2nd QTR</i> ) (April 2021 - March 2023)											
Preliminary activities were done for the 2nd quarter, activities include: coordinatio with DENR regional offices, LGUs, and other stakeholders. Existing land-use plans were also reviewed.											
<b>3. Program on Emerging Issues</b>											
<b>Project.</b> IPM Development in Forest Plantations in NGP/CBFM Areas within Watersheds of Regions I, II, III, and CAR (January 2017 - March 2022)											
Regions assessed for pest/diseases infestations (no.)	1	1			2	1	2		3.00	-1.00	Bauang, La Union; Green Valley, Baguio City; and Orani-Hermosa, Bataan
Plantation sites monitored for pest/disease infestation (no.)	1	1	1	1	1	1	1		1.00	0.00	
Dataset on pests and diseases infestation collected and analyzed (no.) - callus formation & pest incidence	2	2	2	2	2	2	2		2.00	0.00	
Database on pest infestation in Regions 1, 2, 3 & CAR updated (no.)					1	1			0.00	1.00	
Integrated pest management strategies developed (no.)					1	1			0.00	1.00	
<b>Project.</b> Benguet Pine Characterization in Selected Disturbed and Undisturbed Sites of Benguet Province											
<b>Component 1.</b> Biophysical Assessment of Selected Pine Forests in Benguet Province (August 2020 - December 2021)											
Soil samples collected and analyzed (no.)	1	1			2	1	1		2.00	0.00	
Water quality and quantity assessed (no.)	2	5			7	2	1		3.00	4.00	
Pine forest documented for existing and potential threats (no.)	1	1			2	1	0		1.00	1.00	Data analysis for the 2nd pine forest is still on process
Database on the Biophysical Accounts of Selected Pine Forests in Benguet Province developed (no.)					1	1			0.00	1.00	
<b>Component 2.</b> Population Structure and Regeneration Status of <i>Pinus kesiya</i> Royle ex Gordon Forests in the Province of Benguet (August 2020 - December 2021)											
Primary data on pine forest regeneration gathered (no.)	2	4	2		5	2	2		4.00	1.00	
Database and maps on the population structure and regeneration of Benguet Pine forests developed (no.)					1	1	1		1.00	0.00	
<b>Component 3.</b> GIS-based Forecasting Model Early Detection of Bark Beetle Outbreak in Disturbed and Undisturbed Pine Forests in Baguio City. (August 2020 - July 2023)											
Sites assessed and characterized (no.)	2				2	1	1		2.00	0.00	
Bark beetle life history assessed and documented (no.)	1	1	1	1	1	1	0	1	1.00	0.00	Collection and early stage assessment
Biotic and abiotic data gathered (dataset)					2	2			0.00	2.00	
<b>Project.</b> Environmental Carrying Capacity of Baguio City (July 2020 - June 2021)											
Biophysical parameters assessed/characterized (no.) - Flora & Fauna	2				2	2	2		2.00	0.00	
Physical parameters assessed (no.) - Water - Soil	3	3			3	2	2		2.00	1.00	Awaiting results from external implementers for analysis of infrastructue.

	- Infrastructure												
	Carrying capacity of Baguio City determined (no.)		1			1		1			1.00	0.00	The project was extended until September 2021 for the processing and computing of Carrying Capacity values.
4. Maintenance of Laboratory in Support to the Centers RDE projects	Laboratory maintained (no.)	1	1	1	1	1	1	1			1.00	0.00	Continuous/regular activity.
<b>E.2.b. Urban and Biodiversity Research Development and Extension Center (UBRDEC)</b>													
<b>1. Program on Forests Ecosystem Resiliency and Sustainability</b>													

<b>Project.</b> Market Chain Analysis of Selected Non-Timber Forest Products for Equitable Revenue Distribution (July 2019 - December 2021) <i>extended</i>	Market data for non-timber forest products gathered (no. of products)	5	5			5	5	5			5.00	0.00	Integration and analysis of data gathered from the market channels is on process for the crafting/drafting of recommendations that will serve as inputs to policy on Non-timber forest product.
	Market Channel Sites for Non-timber forest products identified and analysed (no.)	2	4			6	2	4			6.00	0.00	
<b>2. Program on Ecosystems Dynamics and Sustainable Management of Coastal and Freshwater Ecosystems</b>													
<b>Project.</b> Ecological Characterization and Carrying Capacity of Puerto Princesa Underground River (July 2019 - June 2021) <i>extended</i>	Water samples assessed (no.) - dry season	12	36			48	12	36			48.00	0.00	Data analysis is on process for the preparation of completion report.
	Carbon dioxide and Oxygen concentrations determined (no. of site)		1			1		0			0.00	1.00	
	Technical information on the biogeochemical processes of Puerto Princesa Underground River (PPUR) generated (no.)		1			1		0			0.00	1.00	
	Carrying capacity of PPUR updated (no.)		1			1		0			0.00	1.00	Initial computation of PPUR's carrying capacity is done subject to the review of ERDB Technical Divisions and CarCap Committee.
<b>Project.</b> Development of Pagbilao Mangrove Experimental Forest Station (April 2017 - March 2022)	Mangrove nursery maintained (no.)	2	2	2	2	2	2	2			2.00	0.00	Continuous/regular activity
	Mangrove experimental plantations maintained (no.)	2	2	2	2	2	2	2			2.00	0.00	Continuous/regular activity
	Seeds of mangrove and beach forests species collected (no.)		1,000	1,000	1,000	3,000	1500	500			2000.00	1000.00	
	Mangrove production protocol developed (no.)			2	3	5		1			1.00	4.00	
	Mangrove growth data gathered and analyzed (no.)	1	1	1	1	1	1	1			1.00	0.00	Assesment of 38 IPTs was done on April 19
<b>Project.</b> Accounting and Mapping of Ecosystem Carbon Stock of Mangrove Forest and C Losses Arising from Deforestation (June 2018 - June 2021)	Sites surveyed (no.)	1				1	1	0			1.00	0.00	
	Datasets gathered and analyzed (no. of site)												
	- Biomass C Stocks	1	1			1	1	0			1.00	0.00	
	- Soil C Stocks and losses	1	1			1	1	0			1.00	0.00	
	Biomass Maps generated (no.)		1			1		0			0.00	1.00	Data integration is on process prior generation of Biomass Maps.
<b>3. Program on Promoting Ecosystem Health and Sustainability of Urban Areas through Research and Development</b>													
<b>Project.</b> Solid Waste Management and Climate Change Readiness of Fast Urbanizing Areas (Proposed New Project for 2nd QTR) (July 2021 - March 2023)	Solid waste management practices surveyed and evaluated (no. of sites)			1	2	3					0.00	3.00	
	Climate Change readiness assessed (no. of sites)			1	2	3					0.00	3.00	
<b>4. Program on Emerging Issues</b>													
<b>Project.</b> Assessment of Carrying Capacity of Puerto Galera, Oriental Mindoro (August 2020 - December 2021)	Biophysical parameters assessed/ characterized (no.)	4				4	4	4			4.00	0.00	
	Carrying capacity parameters assessed (no.)	3	3			3	2	1			3.00	0.00	

	- socio-economic												
	- traffic and transport												
	- solid and liquid wastes												
	Carrying capacity of Puerto Galera determined (no.)			1		1		1		1.00	0.00	Initial computation/analysis was accomplished for review of ERDB Technical Divisions and CARCAP Committee.	
5. Maintenance of Laboratory in Support to the Centers RDE projects	Laboratory maintained (no.)	1	1	1	1	1	1	1		1.00	0.00	Continuous/regular activity.	

<b>E.2.c. Coastal Resources and Ecotourism Research, Development, and Extension Center (CRERDEC)</b>											
<b>1. Program on Ecosystems Dynamics and Sustainable Management of Coastal and Freshwater Ecosystems</b>											
<b>Project.</b> Growth variation in selected mangrove plantations as affected by different habitat conditions in the Philippines (January 2018 - June 2021) <i>extended</i>	Growth performance and survival rate measured (no of sites)	2	3		5	2	3		5.00	0.00	Preparation of completion report is on process. The project will be providing a comparative analysis of 3-year growth and survival rate of selected mangrove sites and will serve as baseline information.
	Growth variation of Mangrove plantations determined (no.)	1	1		1	1	1		1.00	0.00	
<b>Project.</b> Ecotourism Management Analysis of Selected Marine Protected Area (MPAs) in the Philippines (Proposed New Project for 2nd QTR) (April 2021 - March 2025)											
<b>Project.</b> Relationship of Multiple Hbaitat Continuity and Horseshoe Crab Population in Honda Bay and Quezon Province (Proposed New Project for 3rd QTR) (July 2021 - September 2022)	Datasets gathered (no.) - horseshoe crab population - vegetation - sediment and water			1	2	3			0.00	3.00	Individual work and financial plan is under review prior implementation on July 2021.
	Crab samples analyzed (no.)			1	1	2			0.00	2.00	
RDE project in the FY 2021 proposal pipeline (NEW proposal stage)	RDE proposal reviewed and approved for implementation (no.)		2	2	2	2			0.00	2.00	
<b>2. R&amp;D Program on Emerging Issues</b>											
Carrying Capacity Assessment of Coron, Palawan (July 2020 - December 2021)	Biological parameters characterized/ assessed (no.) - flora & fauna - wetlands - other landforms used for tourism	var	var			var					Collection of secondary data was done and reconnaissance survey and initial data gathering were done in different ecosystems
	Carrying capacity parameters assessed (no.) - socio-economic - traffic and transport - solid and liquid wastes	3	3	3		3	3	3	3.00	0.00	Initial interview survey was done. Other parameters shall be assessed on the 3rd quarter. Close coordination with DENR offices, LGYS are being done for the collection of secondary data for the meantime until such time where travel to Coron is not that much restricted by the imposed quarantine.
	Carrying capacity of Coron, Palawan determined (no.)					1			0.00	1.00	
<b>3. Maintenance of Laboratory in Support to the Centers RDE projects</b>	Laboratory maintained (no.)	1	1	1	1	1	1	1	1.00	0.00	Continuous/regular activity.
<b>E.2.d. Agroforestry Research, Development, and Extension Center (ARDEC)</b>											
<b>1. Program on Forests Ecosystem Resiliency and Sustainability</b>											
<b>Project.</b> Phytological control of cogon (Imperata cylindrica (L.) Beau) using tree seedlings applied with biofertilizer and combination of NPK and vermicast in degraded ancestral domain area, Talaingod, Davao del Norte (January 2018 - December 2022)	Experimental plots maintained (no.)	36	36	36	36	36	36	36	36.00	0.00	Installed erosion pins as part of the maintenance activity
	Live fence maintained (linear meter)	800	800	800	800	800	800	800	800.00	0.00	Conducted maintenance and brushing of the madre de cacao perimeter firelines through the supervision of the Research technician for the month of June.
	Rainfall data monitored (no.)	3	3	3	3	12	2	4	6.00	6.00	
	Biological datasets collected and analyzed (no.) - survival	4	4	4	4	4	4	0	4.00	0.00	Presence of insect pest was observed in Molave. such as curling of leaves and presence of black ants on the stem almost 20% was affected.



	Live fence maintained (linear meter)	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1300.00	0.00	
	Demonstration area/learning site established and maintained (no.)	1	1	1	1	1	1	1	1	1.00	0.00	
<b>Project.</b> Valuation of Ecosystem Services in a Community-based Forest Management Agroforestry (Proposed New Project for 2nd QTR) (April 2021 - March 2023)	Ecosystem goods and services identified for accounting (no.)		4			4			4	4.00		Conducted field immersion and actual observation in the existing land use of the area. The agricultural, residual forest, the CBFM boundaries (including outside and within the area), brushland, watershed and agroforestry areas were reached and mapped out for actual data gathering activities & subsequent Valuation analysis. Identified four ecosystem services existing in the CBFM project site follows; total Carbon stock, soil erosion and prevention value, existence value and stumpage value of timber and agroforestry products
	Ecosystem goods and services assessed and accounted				2	2						
	Ecosystem goods and services analyzed verified, and validated				2	2	0	0				
RDE project in the FY 2021 proposal pipeline	RDE proposal reviewed and approved for implementation (no.)		2	2	2	2				0.00	2.00	
<b>2. Maintenance of Laboratory in Support to the Centers RDE projects</b>	Laboratory maintained (no.)	1	1	1	1	1	1	1	1	1.00	0.00	Continuous/regular activity.
<b>E.2.e. Forest and Wetland Research, Development and Extension Center (FWRDEC)</b>												
<b>1. Program on Forests Ecosystem Resiliency and Sustainability</b>												
<b>Project.</b> Performance of different cloned climax species interplanted in existing tree plantation within mined-out areas of Carmen Copper Corporation (CCC) (May 2017 - April 2022)	Growth performance dataset (survival, height, diameter, and health status) collected (no.)	1	1	1	1	1	1	1	1	1.00	0.00	Quarterly data gathering
	Experimental plots monitored, maintained, and protected (no.)	3	3	3	3	3	3	3	3	3.00	0.00	Continuous activity
	Database on micro-climatic data updated (no.)	1	1	1	1	1	1	1	1	1.00	0.00	
	Soil samples collected and analyzed for NPK and heavy metals (no.)			22		22				0.00	22.00	
	Manual on Rehabilitation of Mined-out Areas using Climax Species drafted (no.)				1	1				0.00	1.00	
<b>Project.</b> Establishment of Demonstration Areas (September 2018 - August 2022)	Demonstration area maintained and monitored (no.)	4	4	4	4	4	4	4	4	4.00	0.00	Continuous site status monitoring through coordination with project site incharge and partner BLGU Sumile.
	Growth dataset collected (no. of sites)	4	4	4	4	4	4	4	4	4.00	0.00	
RDE project in the FY 2021 proposal pipeline (NEW proposal stage)	RDE proposal reviewed and approved for implementation (no.)		2	2	2	2			0	0.00	2.00	
<b>2. Program on Ecosystems Dynamics and Sustainable Management of Coastal and Freshwater Ecosystems</b>												
<b>Project.</b> Updating of Profile/Status of Priority Peatlands in the Philippines (Proposed New Project for 2nd qtr)	Flora and fauna assessed (no. of sites)		2	2		2			2	2.00	0.00	Assessment was rescheduled on the 3rd quarter



(April 2021 - March 2023)	Water samples collected and analyzed (no.)		4	4		8		4		4.00	4.00	
	Experimental sampling plots established (no. of sites)		1	1		2		1		1.00	1.00	
RDE project in the FY 2021 proposal pipeline ( <b>NEW</b> proposal stage)	RDE proposal reviewed and approved for implementation (no.)		1	1	1	1		1		1.00	0.00	One proposal approved for implementation. WFP is under review. Project title: <b>Heavy Metal Contamination and Spatial Distribution of Soild in Selected Urban Areas in the Philippines</b>
3. <i>Maintenance of Laboratory in Support to the Center's RDE projects</i>	Laboratory maintained (no.)	1	1	1	1	1	1	1		1.00	0.00	Continuous/regular activity.
<b>E.2.f. Toxic and Hazardous Wastes Research Development, and Extension Center (THWRDEC)</b>												
<b>1. Program on Promoting Ecosystem Health and Sustainability of Urban Areas through Research and Development</b>												
<b>Project.</b> Development of low-cost adsorbents from rice, coconut, sugarcane and maize residues for the removal of hexavalent chromium in tannery wastewater	Water quality parameters determined (no. of datasets)	3				3	3	3		3.00	0.00	Project is already completed. Completion report was already submitted to DENR CO PPS last June 30, 2021
	Low cost-absorbent from Agricultural		4			4	4	4		4.00	0.00	

(October 2018 - June 2021)	Waste Materials developed (no.)												
<b>Project.</b> Development of Barangay Management System for Household Hazardous Wastes in Quezon City, Metro Manila (February 2020 - September 2021)	Data validation (no.)	3				3	0	0			0.00	3.00	
	Propose Barangay Household Haardous Wastes Management System developed (no.)			1		1					0.00	1.00	For drafting based on the results of the project
<b>Project.</b> Healthcare Waste (HCW) Management Practices by Non-Hospital-based Clinical Laboratories in Selected Cities in Metro Manila (Propose NEW project for 2nd qtr) (April 2021 - June 2022)	Clinical laboratories validated (no. of sites)		3			3		2			2.00	1.00	List of respondent clinical labs for (1) Makati City and (2) City of Manila were already validated. Site validation for the CLs in QC is ongoing and expected to be completed by the end of June 2021
	Laboratory waste management system and policies reviewed and assessed (no.)			43	43	86					0.00	86.00	
	Respondents interviewed (no.)			258	258	516					0.00	516.00	
RDE project in the FY 2021 proposal pipeline (NEW proposal stage)	RDE proposal reviewed and approved for implementation (no.)		2	2	2	2		1			1.00	1.00	
<b>Project.</b> Heavy Metal Contamination and Spatial Distribution of Soils in Selected Urban Areas in the Philippines (New Project under proposal pipeline) (April 2021 - September 2022)	Sites selected and evaluated (no.)			32	14	46							One proposal approved for implementation. WFP is under review. Project title: <b>Heavy Metal Contamination and Spatial Distribution of Soild in Selected Urban Areas in the Philippines</b>
	Soil samples collected (no.)			34	16	50							
	Soil samples analysed (no.)			32	14	46							
<b>E.3. Emerging Issues and other Research Initiatives in support to Major Programs of the Philippine Government</b>	Research project conducted (no.)	var.	var.	var.	var.	2	2	2			2.00	0.00	Support to the implementation of CO-based funded projects on LPPWP and Nilad
<b>Project Management and Supervision (PMS)</b>													
Management and Supervision of RDE programs/projects/activities	RDE projects' implementation supervised (no. of projects)	16	22	27	25	33	16	4			20.00	13.00	16 On-going RDE projects as of April 31, 2021 4 New projects approved for implementation.
	Consortium related to RDE participated/partnered (no.)	7				7	5	2			7.00	0.00	Final and 2nd review of MOA for the ff: 1. Western Visayas Agriculture Resources Research and Development Consortium 2. Central Visayas Agriculture and Aquatic and Natural Resources Research and Development Consortium 3. Northern Mindanao Consortium for Agriculture Aquatic and Natural Resources Research and Development 4. Caraga Consortium for Agriculture, Aquatic and Natural Resources Research and Development 5. Western Mindanao Agriculture, Aquatic, and Natural Resources Research and Development Consortium 6. STAARRDEC 7. Cordillera Consortium for Agriculture, Aquatic, and Resources Research and Development 8. Cagayan Valley Agriculture and Aquatic Resources Research and Development
Review of Completion Report, Manuals, and Technical Bulletins	CarCap Completion Report reviewed (no.)			2	2	2					0.00	2.00	
	ERDB Manuals reviewed (no.)				2	2					0.00	2.00	
<b>Fixed Expenditures/Mandatory</b>													
RLIP													
<b>III. Operations</b>													

A. Natural Resources Conservation and Development Program											
Forest and Watershed Management											
Sub-Program											
Forest Development, Rehabilitation and Maintenance and Protection											
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 20777	6 46685		6.00 67462.00	0.00 -7462.00
ERDB Main Office		1 5,000	1 5,000	1 1	1 1	1 10,000	1 1200	1 10862		1.00 12062.00	0.00 -2062.00
Research Centers:											
1) WWRRDEC		1 5,000	1 5,000	1 1	1 1	1 10,000	1 980	1 12297		1.00 13277.00	0.00 -3277.00
2) UBRDEC		1 5,000	1 5,000	1 1	1 1	1 10,000	1 4167	1 5833		1.00 10000.00	0.00 0.00
3) CRERDEC		1 5,000	1 5,000	1 1	1 1	1 10,000	1 5020	1 5173		1.00 10193.00	0.00 -193.00
4) FWRDEC		1 5,000	1 5,000	1 1	1 1	1 10,000	1 4400	1 7000		1.00 11400.00	0.00 -1400.00
5) ARDEC		1 5,000	1 5,000	1 1	1 1	1 10,000	1 5010	1 5520		1.00 10530.00	0.00 -530.00
	Macro-propagation protocol developed (no.)				6	6	1	2		3.00	3.00
2. Plantation Establishment and Development	Area planted (has.)			60	60	120				0.00	120.00
ERDB Main Office				10	10	20				0.00	20.00
Research Centers:											
1) WWRRDEC				10	10	20				0.00	20.00
2) UBRDEC				10	10	20				0.00	20.00
3) CRERDEC				10	10	20				0.00	20.00
4) FWRDEC				10	10	20				0.00	20.00
5) ARDEC				10	10	20				0.00	20.00
3. Maintenance and Protection of Established Developed Plantations for the 1st year	Plantation maintained and protected (has.)				120	120				0.00	120.00

ERDB Main Office					20	20				0.00	20.00
Research Centers:											
1) WWRDEC					20	20				0.00	20.00
2) UBRDEC					20	20				0.00	20.00
3) CRERDEC					20	20				0.00	20.00
4) FWRDEC					20	20				0.00	20.00
5) ARDEC					20	20				0.00	20.00
Maintenance and Protection of Established Developed Plantations for the 2nd year	Plantation maintained and protected (has.)	120	120	120	120	120	120	120		120.00	0.00
ERDB Main Office		20	20	20	20	20	20	20		20	0.00
Research Centers:											
1) WWRDEC		20	20	20	20	20	20	20		20	0.00
2) UBRDEC		20	20	20	20	20	20	20		20	0.00
3) CRERDEC		20	20	20	20	20	20	20		20	0.00
4) FWRDEC		20	20	20	20	20	20	20		20	0.00
5) ARDEC		20	20	20	20	20	20	20		20	0.00
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		4.00	0.00
	Equipment calibrated (no.)		10			10		0		0.00	10.00
a) Establishment of trap plants and production of mycorrhizal inoculants	Mycorrhizal inoculants produced (no.)	50	50			100	0	100		100.00	0.00
	Hi-Q VAM 1 inoculants harvested and packed with acceptable spore count, viability, and purity (tons)			50	50	100				0.00	100.00
	Hi-Q VAM 1 distributed to DENR Regional offices (tons)	200				200	34.32	180.39		214.71	-14.71
b) Monitoring of the distributed Hi-Q VAM 1 to DENR Regional Offices	Effectiveness of Hi-Q VAM 1 in NGP sites documented (no. of sites)	2	2	1	1	6	1	0		1.00	5.00
c) Nursery Screening of Hi-Q VAM 2	Patent for Hi-Q VAM 2 applied (no.)				1	1				0.00	1.00
d) Production of IEC Materials	IEC Materials produced (no.)	1				1	0			0.00	1.00
	IEC Materials printed (no. of copies)	20,000		15,000		35,000	0			0.00	35000.00
e) Conduct of Buil-in Research on the effectiveness of mycorrhiza	Experimental sites for mycorrhiza established (no.)		2	2		2	0	0		0.00	2.00
	Species tested (no.)			2	2	4	0	0		0.00	4.00
5. Maintenance/Operationalization of Forest Tree Seed Centers (FTSC)	Forest Tree Seed Center (FTSC) maintained/operationalized (no.)	6	6	6	6	6	6	6		6.00	0.00
ERDB Main Office		1	1	1	1	1	1	1		1.00	0.00
Research Centers:											
1) WWRDEC		1	1	1	1	1	1	1		1.00	0.00
2) UBRDEC		1	1	1	1	1	1	1		1.00	0.00
3) CRERDEC		1	1	1	1	1	1	1		1.00	0.00
4) FWRDEC		1	1	1	1	1	1	1		1.00	0.00
5) ARDEC		1	1	1	1	1	1	1		1.00	0.00
	Candidate plus trees identified (no.)	55	35	40	40	170	73	62		135.00	35.00
	Phenological calendar updated (no. of species)	5	11	11	10	37	25	25		50.00	-13.00
	Seeds collected (no. of seedlot)	10	15	15	14	54	13	26		39.00	15.00
	Seeds validated (no. of seedlot)	5	10	15	10	40	1	10		11.00	29.00
	Collected seeds processed	12	15	15	15	57	12	28		40.00	17.00

	(no. of seedlot)											
	Seedlot tested (no.) - purity test, % germination, seed count, % moisture content	20	20	20	30	90	21	59			80.00	10.00
	Seed documented and registered (no.)	20	30	25	25	100	17	65			82.00	18.00
	Seed protocol developed (no. of species)	2	10	8	10	30	2	14			16.00	14.00
	Operations Manual produced (no.)				1	1					0.00	1.00
6. Other Related Activities												
a) Impact Assessment of 2015 & 2016 NGP sites	NGP sites assessed (no.)	3		8		20	4	6			10.00	10.00
	Database system on the biological, physical, socio-economic, and spatial characteristics of assessed 2015 & 2016 NGP sites developed (no.)				1	1					0.00	1.00

	Executive summary submitted (no.)				1	1				0.00	1.00	
	Reports prepared (no.)				20	20				0.00	20.00	
b) Special studies	Special studies conducted (no.)	4	4	4	4	4	1	2		3.00	1.00	
b.1. Assessment of the Effect of Stock Source and Stock Type on the Field Growth Performance of Selected NGP Planting Materials in Tukuran, Zamboanga Del Sur (Region 9) and Bislig, Surigao del Sur (CARAGA)	Planting materials produced thru MMNF, Clonal, and PO (no.)	300	300			600	0			0.00	600.00	No activities conducted yet.
	Experimental plots established (no. of sites)			2		2				0.00	2.00	
	Growth data gathered (no.) - survival, height, diameter				6	6				0.00	6.00	
b. 2. Whole-Ecosystem Carbon Stocks and Sequestration of Forest Plantations under the National Greening Program in Davao and Central Luzon Regions	NGP sites assessed for carbon sequestration potential (no.) - Central Luzon - Davao Region	2				2	0			0.00	2.00	Levelling-off meeting already conducted and initial coordination for the target sites were accomplished.
	Data gathered (no.)	1	3	4		8	0			0.00	8.00	
	Data analyzed (no.)		4	4		8						
b. 3. Assessment of Field performance of Planted QPMs for NGP	Experimental sites maintained (no.)	3	3	3	3	3	3	3		3.00	0.00	
	Quality Planting Materials (QPMs) assessed (datasets per site) - diameter, height, survival	3	3	3	3	3	0	3		3.00	0.00	No data gathering was conducted for the 2nd quarter.
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.)		600			600	200	0		200.00	0.33	Collection shall be done on the 3rd quarter
	Cuttings produced (no.)	600				600	0			0.00	600.00	Collection of new cuttings from mother trees was done.
	Efficiency of propagation technologies assessed and documented (no.)			2	2	2				0.00	2.00	
c) Soil Mapping for the preparation of Forest Soils Map	NGP sites assessed (no.)		3	3	2	8				0.00	8.00	
	Soil properties/parameters analyzed (no.)				10	10				0.00	10.00	
	Maps generated (no.)				8	8				0.00	8.00	
d) Maintenance and protection of experimental forests	Experimental forests maintained and protected (no.)	24	24	24	24	24	24	24		24.00	0.00	
ERDB Main Office (maintained under LESD)		1	1	1	1	1	1	1		1.00	0.00	
Research Centers:												
1) WWRRDEC		4	4	4	4	4	4	4		4.00	0.00	
2) UBRDEC		5	5	5	5	5	5	5		5.00	0.00	
3) CRERDEC		6	6	6	6	6	6	6		6.00	0.00	
4) FWRDEC		7	7	7	7	7	7	7		7.00	0.00	
5) ARDEC		1	1	1	1	1	1	1		1.00	0.00	
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.	var	3		3.00	100%	
f) UPLB project (Integrated Research and Development for High Value Forest Crops)	<b>Downloaded to UPLB-CFNR with separate WFP</b>											
g) Monitoring and Evaluation												
Turned-over Clonal Facilities and Seed Sources	Sites monitored and evaluated (no.) - Turned-over clonal nurseries (regions) - Retained Seed sources (sites)	3	5	5	3	16	0	0		0.00	16.00	
		14	25			39	0	1		1.00	38.00	

	- Bamboo Plantations (regions)	2	6	5	2	15	0	0			0.00	15.00
	- Mangrove Plantations (regions)	var.	var.	var.	var.	0	0	0			0.00	0.00
	Bamboo IEC materials produced (no. of copies)		1,500			1,500	0	0			0.00	1500.00
7. Project Management and Supervision												
a) Submission of Reports												
	Report prepared and submitted (no.)											
	- Monthly	3	3	3	3	12	3	3			6.00	6.00
	- Quarterly	1	1	1	1	4	1	1			2.00	2.00
	- Semi-annual		1			1		1			1.00	0.00
	- Annual				1	1					0.00	1.00
b) Conduct and participation in the NGP consultation meetings/workshops												
	NGP consultation meetings/workshops attended (no.)	var.	var.	var.	var.							

c) Conduct of Trainings/Workshops/ Seminar	Trainings/workshops/seminars conducted (no.)		2			2		2		2.00	0.00	
	- Phenological calendar and seed testing		1			1		1		1.00	0.00	
	- Carbon Sequestration Potential		1			1		1		1.00	0.00	
8. Hiring of Project Development Officers	Project Development Officers hired (no.)	4	4	4	4	4	4	4		4.00	0.00	Hired for 6 months (Jan to June 2021)
<b>B. Environmental and Natural Resources</b>												
<b>Natural Resources Assessment Sub-Program</b>												
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.)		3	8	3	14	1	1		2.00	12.00	Provided technical assistance in Region 6 CapiZ
2. Review of 2019 VA reports submitted by regional offices with characterization report	Vulnerability assessment reports reviewed and evaluated (no.) (CY 2020 targets)	2	3	2		7	6	9		15.00	-8.00	Reviewed reports from R 6 (Barotac Viejo) R 2 (Dummun Watershed), R 8 (Palo, Daguitan, and Mainit Watershed), R3, R13, R8, and R11.
	Workshop/training on vulnerability assessment report writing conducted (no.)				1	1				0.00	1.00	For the month of May, reviewed WCVA & IWMP reports from four (4) regions (4B, 1, 12, and CAR)
B.2. Natural Resources Accounting and Valuation Program												
1. Conduct of Resources Valuation study	Ecosystem services valued (no. of sites)		1	1	1	1		1		1.00	0.00	
<i>PMS and M&amp;E</i>												
Fixed Expenditures/Mandatories												Preparatory activities were conducted. Data collection shall commence on the 3rd quarter.

Reviewed and Submitted by:

  
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Recommended by:

  
**MAYUMI QUINTOS-NATIVIDAD**  
 Assistant Director

Approved by:

  
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 Director