

QUARTERLY PHYSICAL REPORT OF OPERATION
SEPTEMBER 2021 (3rd Quarter)

P/P/A	PERFORMANCE INDICATOR/UWM	PHYSICAL TARGET					PHYSICAL ACCOMPLISHMENT					VARIANCE AS OF SEPTEMBER 2021	REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL		
A.III.d.1													
Ecosystems Research and Development Service													
I. General Administration and Support Services (GASS)													
A. General Management and Supervision													
Administrative, Finance, and Management activities/requirements, and submissions	Financial reports submitted (no.) (annual, quarterly, and monthly)	12	12	12	13	49	12	12	12		36.00	13.00	
	Annual Procurement Plan prepared and submitted (no.)				1	1			1		1.00	0.00	
	ERDB building and facilities maintained (no.)	7	7	7	7	7	7	7	7		7.00	0.00	
	Records of ERDB Personnel Updated and Maintained (no.)	320	320	320	320	320	320	320	320		320.00	0.00	
	Service vehicles maintained (no.)	45	45	45	45	45	45	45	45		45.00	0.00	
	Administrative, Finance, and Management meetings conducted/attended (no.)	6	6	6	6	24	13	16	18		47.00	-23.00	1. HRMPSB Deliberation (Jan 5, 8, 12, & 22) 2. Quality Management System (QMS) Jan 6, 7, 15, & 19) 3. 1st Legislative Meeting for 2021/Urgent Priority Bills and Others (Jan 6) 4. Meeting with Usec Teh re: ERDB Master Plan (Feb 24, 2021) 5. Research Center meetings (Feb 11, 2021) 6. ExeCom meetings (Feb 15) 7. BAC pre-bidding meeting (Feb 24) 8. PTWG For Forestry Sector (March 10) 9. QMS Core Meeting (March 15) 10. BAC Related Meetings (March 9 & 11) 11. HRMPSB meetings/deliberation (March 15, 23) 12. PMT and Sub-CMT meetings (March 23) 13. Levelling off meeting for ERDB's Health & Safety Officers (March 24) 14. DENR Presentation for the 2022 National Budget Call (April 7) 15. BAC Meeting-Opening of Eligibility Requirements for the Procurement of Consultancy Services for LLPHW (Apr 6) 16. Sub-CMT and PMT meeting (Apr 12, 15, 23) 17. PTWG meeting (Apr 16) 18. ERDB Budget Allocation/Distribution meeting May 3, 2021 19. Team Laban Covid Meeting on May 14, 2021 20. 3rd Research Center meetings (May 10) 21. Opening of Eligibility Requirements for the Procurement of Consulting Firm for the

	- Sylvatrop (no. of issues)			1	1	2			1		1.00	1.00	
	- 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		0.00	600.00	
	- ERDB Infojournal articles edited and layouted (no.)	2	2	2	2	8	2	6	40		48.00	-40.00	
	- 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	2		7.00	1.00	
	Annual Technical Seminar (ATS) conducted (no.)		1			1		1	1		2.00	-1.00	
	Knowledge Products mailed to regular subscribers (no.)	300	300	300	300	1200	500	1343	392		2235.00	-1035.00	
	Knowledge Products distributed to walk-in clients (no.)	200	200	200	200	800	43	28	438		509.00	291.00	
2. Maintenance of ENR Library	ENR Library maintained (no.)	1	1	1	1	1	1	1	1		1.00	0.00	
RLIP													
C. Legal Services including Operations Against Unlawful Titing of Public Land													
1. Review of MOAs/MOUs	MOAs/MOUs reviewed (no.)	6	7	7	5	25	17	11	13		41.00	-16.00	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 8. MOA between ERDB and Bagui City 9. MOA EBSCOHOST 10. MOA for the NILAD Project 11. LOA for FWRDEC 12. MOA between ERDB and Gavrilo Security Services 13. MOA between ERDB and DAP 14. MOA with Roman Catholic Archdiocese of Cebu 15. MOA between ERDB, DENR Region 7 and LGU Oslob, Cebu 16. MOA EbsCohost journal subscription 17. MOA Ubix Corp. 18. MOA WWRDEC consortium 19. MOA THWRDEC 20. MOU Malaybalay Exp. Forest 21. MOA LGU of Baguio 22. MOA Museum of Natural History 23. Deed of donation to LGU Los Baños 24. MOA S&T Based Nursery Plantation 25. MOA PCAARRD-DENR ERDB 26. MOA EbsCohost 27. MOA for the implementation and adoption of Carrying Capacity in Malapascua and Carnaza Island, Daanbantayan, Cebu. 28. MOA with UPLB on Macrofungi identification 29. MOA with University of the Philippines Los Baños Laguna 30. MOA with STAARDEC (Consortia) 31. MOA with AGATA Mining 32. MOA with Lobo Batangas for the Valuation Project 33. MOA Guarding Services Agreement

													25. CHAMP-IT with UNDP (Sep 10)
													26. DENR Operational Guidelines (Sep 21-22)
	Conduct of Research Sector Management Conference/consultation workshops/strategic planning/meetings (no.)	1	1	1	1	4	1	2	1		4.00	0.00	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. 4. 3rd ERDB Management Conference on 28-29 September 2021. 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					0.00	1.00	
3. Submission of Accomplishment Reports	Physical and Financial Accomplishment reports (ParFar) submitted (no.)	2	3	3	4	12	3	3	3		9.00	3.00	Submitted the Parfar report for the months of December 2020, January, February, March April 2021, May 2021, June 2021, July 2021, and August 2021.
	Quarterly Accomplishment reports submitted		1	1	2	4	1	1	1		3.00	1.00	Submitted the 4th quarterly report for 2020 Submitted the 1st quarterly report for 2021
	Annual Report submitted (no.)	1				1	1				1.00	0.00	
4. Provision legislative assistance to Congress	Assistance provided to Congress (no.)	var	var	var	var	var	var	var	2		2.00	0.00	
5. Formulation of RDE Program on Climate Change	RDE Program formulated (no.)				1	1					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			1 1		1.00 0.00 1.00	1.00 1.00 0.00	1. Guidelines in the Implementation of Externally-Funded Projects submitted to DENR CO last September 9, 2021
<i>RLIP</i>													
E. Ecosystems Research, Development and Extension Services													
E.1. ERDB Main Office													
E.1.a. Formulation, Coordination, and Monitoring of RDE programs/projects/studies on Forest Ecosystem													
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	11		19.00	-3.00	- Green & Grey: A Strategy for Sustainable Biomass Production & Carbon Sequestration using Microalgae dated July 16, 2021 - Determination of Air Pollution Tolerance Index (APTI) & heavy Metal Sorption Capacity of Plants used in Vertical Garden & Urban/Per-Urban July 23, 2021 - Water Balance Estimation in Selected Watershed in the Philippines re-evaluation July 19-21, 2021 - Ecotourism Management Analysis of Selected Marine Protected Areas June 28, 2021 - Vulnerability Assessment of Sink Holes in Baguio City dated July 24 & August 17, 2021 - Assessment of the Effect of Stock Sources and Stock Type on the Field Growth Performance of Selected NGP Planting Materials in Tukuran, Zamboanga del Sur and Bislig, Surigao del Sur (August 5, 2021) - Determination of Air Pollution Tolerance Index

													(APTI) & Heavy Metal Sorption Capacity of Plants used in Vertical Garden & Urban/Per-urban Planting (August 4, 2021) - Biodiversity Assessment and Bioindicator Determination of Agroforestry Systems of Selected CBFM areas in the Philippines. - Augmenting Community Income in Sta. Lourdes using Sweet Potato (<i>Ipomea batatas</i> (L.) Lam.) grown in mercury adsorbent spiked soils around the vicinities of the Palawan Quick-Silver Mines Inc. (PQMI) Forest Restoration Sites - Vulnerability Assessment of CBFM Farming Areas to the Hazards of Climate Change in Region XI - Impacts of Covid-19 Pandemic on the Water Quality and Water Use of Water Constrained Cities in the Philippines.
	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's 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	2		33.00	-8.00	
	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 - Webinar titled "Valuation of Watershed Ecosystem Services for Policy: The Philippine and Malaysian Cases", organized by FDC dated August 4, 2021 - Webinar titled "Enhancing Wealth Creation for Forestlands Ecosystems: Policy Implications", organized by FDC dated August 10, 2021 - Workshop-seminar: Presentation of Market Chain Analysis Project Outputs & Seminar in Role of Research in Policy Formulation and Policy Brief, with DENR CO and Staff Bureaus (Aug 17-18)
3. Provision of technical assistance related to Forest Ecosystems	Technical assistance provided to various stakeholders (no.)	3	3	3	3	12	6	2	3		11.00	1.00	- 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 farm in Lipa, Batangas on June 3, 2021
E.1.b. Formulation, Coordination, and Monitoring of RDE programs/projects/studies on Coastal and Freshwater Ecosystems													
1. Formulation of Research Directions on Coastal and Freshwater Ecosystems for RDE Centers	RDE proposals/projects/outputs on Coastal and Freshwater Ecosystems reviewed and			12		12	2	7	8		17.00	-5.00	1.Comparative study on heavy metal accumulation in mangroves 2.GIS evaluation and pollution assessment of heavy

	evaluated (no.)																			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
																				9. Assessment of Heavy Metals Toxicity and Fecal Coliform Contamination in Asian Clams (Corbicula fluminea) from Selected Freshwater bodies in Luzon
																				10. Ecotourism Management Analysis and Biodiversity Assessment Towards Sustainability of Selected Terrestrial, and Wildlife Nature Parks in the Philippines
																				11. SAFE Greening the Cities using Vertical Planting and Floating Garden Technologies for Pollution Abatement in the National Capital Region (SAFE-Green Cities)
																				12. Green & Grey: A Strategy for Sustainable Biomass Production & Carbon Sequestration using Microalgae
																				13. Determination of Air Pollution Tolerance Index (APTI) and Heavy Metal Sorption Capacity of Plants used Vertical Garden and Urban/ Peri-urban planting.
																				14. Integration of coral reef-based factors in estimating the carrying capacity of selected dive sites in the Visayas Region, Philippines
																				15. Species Distribution Modelling using R Studio for Incorporation in the Carrying Capacity Determination Ecotourism Sites within Natural Parks
																				16. Biodiversity Conservation of Wildlife Diversity Fauna on a Changing Climate to Sustainable Selected Protected Areas in Talibon Group of Islands Protected Landscape and Seascape Talibon, Bohol
																				17. Ecological and Socio-Economic Assessment of Lake Panlabuhan in Agusan Marsh Wildlife Sanctuary Agusan del Sur, Lake Maragang in Tigbao, Zamboanga del Sur and Lake Sebu South Cotabato.
	RDE project proposals endorsed for approval (no.)				3	3		1	2			3.00	0.00							1. Updating of Profile/Status of Priority Peatlands in the Philippines
																				2. Relations of Multiple Habitata Continuity and Horseshoe Crab Population in Honda Bay & Quezon Province.
																				3. Heavy Metals Toxicity and Fecal Coliform

													Contamination in Asian Clam
2. Research Gap Analysis on Coastal and Freshwater Ecosystems	Meetings with other Bureaus/ Offices conducted/attended (no.)	2	2			4	2	2	4		8.00	-4.00	<ul style="list-style-type: none"> - Consultation meeting with HARIBON 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 - Small meeting on the National Coastal Greenbelt Program (August 13) - Meeting with SBMA (re Grande and Chiquita MSR on August 11) - Coral Reef Rescue: Resilient Coral Reefs, Resilient Communities (August 4)
	Draft RDE agenda on coastal & freshwater ecosystems for FY 2023-2028 prepared (no.)				1	1			0.6		0.60	0.40	Researchables areas were already identified based on the conducted Round Table Discussion with DENR Bureaus and attached agencies.
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	7		27.00	13.00	<p>The concerns of these TAs are as follows:</p> <ol style="list-style-type: none"> 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 trainings related to the conduct of natural resources accounting and selected protected areas within CALABARZON Region CY 2021. 4. Request for primary/secondary data on sediment quality in the Philippines. 5. Requesting professional help about their study in desalination of saltwater. 6. Request for technical assistance and expertise in mangrove IPM. 7. Request for Assistance in updating the Las Pinas-Paranaque Wetland Park (LPPWP) Vulnerability Assessment. 8. Request for information and documents for academics purposes. 9. Request for any available data regarding the total area of mangrove forest in Brgy. Ransohan, Lucena City and if there are study conducted about carbon sequestration on mangrove in that area. 10. Request for information regarding <ul style="list-style-type: none"> (1) Mangrove ecosystems in the Philippines (2) Mangroves Biodiversity in the Phil. (3) Mangroves Rehabilitation in the Philippines 11. Request for copy of coastal vulnerability assessment report or related study and data in the conduct of CVA for Ibayay watershed in the province of Aklan. 12. Request for articles on carbon assessment and mapping . 13. Updating of the proposed activities for the next 5-year Operational Plan of Snake Island-National Coastal and Marine Center for Research

												14. Request for answer and references for PhilStar interview of Dir. Adornado about seagrass ecosystem	
												15.Updates on Proposed Grande and Chiquita Islands Marine Scientific Research (MSR) Station	
												16. Tree risk assessment	
												17. Technical Assistance on the implementation of the LPPWP project.	
												18. Vulnerability Assessment in San Luis Watershed.	
												19. Coastal vulnerability assessment in Region 3	
												20. Coastal vulnerability assessment in Region 13	
												21. Presentation of Vulnerability Concepts for Nicholas Galvez School	
												22. Resource Speaker for the webinar titled "Usapang Bakawan at Kabataan: Ikaw, Ako, Tayo ang Kalikasan"	
												23. Resources Speaker for Sylvatrop Workshop	
												24. Interview on Mangrove Crabs of Pagbilao, Quezon	
												25. Coastal Vulnerability Assessment in Region 1.	
												26. Grande and Chiquita Island MSR	
												27. Valuation in Lobo, Batangas	
E.1.c. Formulation, Coordination, and Monitoring of RDE programs/projects/ studies on Urban Ecosystem													
1. Formulation of Research Directions on Urban Ecosystem for RDE Centers	RDE proposals/projects/outputs on Urban Ecosystem reviewed and evaluated (no.)	5	5	5	5	20	8	5	10		23.00	-3.00	Reviewed and evaluated the following research proposal and Terminal Reports: - Determination of Air Pollution Tolerant Index (APTI) and Heavy Metal Sorption capacity of Plants Used in Vertical/Urban Planting in Metro Manila - Development f LGU Managed Parks (Terminal Report) - Screening of Selected Bamboo Species Capable to Uptake Heavy Metal Pollutants from the Soil - Social Acceptability of the Floating Garden Project in Brgy. Pulang Lupa Uno, Las Piñas - Completion Report: Documentation of Indigenous Knowledge Practices on Weather and Climate Forecasting of Selected tribes of Cordillera Administrative Region (CAR) - Development of Urban Area Readiness Index for Rapidly Urbanizing Areas - Determination of Air Pollution Tolerance Index (APTI) and Heavy Metal Absorption Capacity of Plants used in vertical /Urban Planting in Metro Manila. - Socio-economic Impact of the Implementation of the Land Distribution Program through Proclamation/Human Settlement Project to some beneficiaries. - Extension services on viable ecosystems Technologies Through Demonstration Strategies / Areas - Green and Grey: A strategy for Sustainable Biomass Production and Carbon Sequestration using Microalgae - SAFE Greening the cities using vertical planting nd floating garden technologies for pollution abatement in the National Capital Region (SAFE-Green Cities) - The Five Endemic Species of Philippine

														Ironwoods
														- Determination of Air Pollution Tolerance Index (ATI) and Heavy Metal Absorption Capacity of Plants used in Vertical/Urban Planting in Metro Manila
														- Application of Green Technologies to Brace Communities Against Impacts of Urbanization in the National Capital Region
														- Development of Waste Management System for Household Hazardous Wastes (HHWs) in Selected Barangays in Quezon City, Metro Manila
														- Documentation of Indigenous Knowledge Practices in Weather and Climate Forecasting of Selected Tribes in Cordillera
														- S&T Action Frontline for Emergencies and Hazards (SAFE) - Greening the Cities for Pollution Abatement in the National Capital Region (SAFE-Green Cities)
														- Phytoremediation of Polluted Rivers within Priority Watershed in Northern and Central Luzon.
	RDE project proposals endorsed for approval (no.)				3	3	2			3		5.00	-2.00	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.
														Endorsed the project of the Toxic and Hazardous Wastes RDE Center titled "Ecological Characterization of Tanza Marine Tree Park, Navotas City, Metro Manila.
														Development of Urban Area Readiness Index for Rapidly Urbanizing Areas
														Determination of Air Pollution Tolerance Index (APTI) and Heavy Metal Sorption Capacity of Plants used in Vertical/Urban Planting
2. Research Gap Analysis on Urban Ecosystem	Meetings with other Bureaus/ Offices conducted/attended (no.)	3	3	4	4	14	6	24	13		43.00	-29.00	DENR, other Government offices, and Stakeholders	
														- Meeting with USEC Analiza Teh, ASEC Cora Davis, and Execom Member of ERDB
														- Levelling off Meeting with LGU-Coron, Region 4B, PENRO Palawan, and CENRO Coron
														- SEARCA Webinar titled "Jurisdiction Sustainability approach for Climate Change initiatives in the Forestry and Natural Resources Sector
														- Introduction to GAD Concepts and SOGIESC
														- Levelling off meeting with LGU Coron R4B, PENRO Palawan, and CENRO Coron
														- Webinar on Women's Role in Environment and Natural Resources-Friendly Livelihood
														- Overview of Circular Economy (Nature - based Solutions/Constructed Wetlands)
														- Restore Our Earth: Wetland and Restoration thru Circular Economy
														- Wealth Accounting and Valuation Ecosystem

													Circular Economy in the Philippines - Action Plan to Address the Water Hyacinth Removal and Proliferation in Marikina and Pasig Rivers - Draft East Asia Summit (EAS) Leaders' Statement on Green Recovery: Advancing Towards a Sustainable and Resilient Future
E.1.d. Monitoring and Evaluation of RDE programs/ Projects/Studies' Implementation	RDE Programs/projects/studies monitored and evaluated (no.)	16	22	27	25	33	16	4	3		23.00	10.00	Table evaluation thru review of submitted monthly & quarterly reports and field validation for projects implemented by WWRDEC and UBRDEC. To date, there are 23 RDE projects monitored from January to September 2021; 5 of which were already completed as of June 31, 2021.
E.1.e. Sustainability of Laboratory and Experimental/Demonstration Services in Support to RDE Programs, Activities and Projects of ERDB Proper and Research Centers													
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		10.00	0.00	
	Laboratory equipment maintained and calibrated (no.)												
	- ERDB Main Office	46	46	46	46	46	46	46	46		46.00	0.00	In compliance with the results of the QMS audit, regular maintenance is being done in all laboratory equipment. Calibration of these equipment shall be done on the 3rd and 4th quarters. Documents for calibration were already prepared for processing.
	- RDECs	30	30	30	30	30	30	30	30		30.00	0.00	
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		2.00	0.00	
E.1.f. Client-Based Technology Transfer and Extension Services for Sustainable Environment and Natural Resources (ENR) Management													
ERDB Main Office RDE Centers													
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	0		1.00	0.00	
	Copies of TPP reproduced (no.)			100		100	0	0	0		0.00	100.00	
	Roll out conducted (no.)			6		6	0	0	7		7.00	-1.00	
- Technology Characterization	Mentoring writeshop conducted (no.)	1				1	1	1	0		2.00	-1.00	
	Technology Characterization Reports reviewed (no.)		2	2	2	6	2	2	2		6.00	0.00	
- Technology Assessment	ENR technologies assessed (no.)		2	2	2	6	2	2	2		6.00	0.00	
- Development and Maintenance of ENR Database	Database developed and maintained (no.)	1	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	0		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	0			3.00	1.00	
- Conduct of TNA (RDECs)	Survey or assessment conducted (no.)	2	2	1	5	0	5	0			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	6			6.00	0.00	
	Monitoring reports consolidated (no.)		3	3	6	0	0	6			6.00	0.00	
	Monitoring reports analyzed (no.)		3	3	6	0	0	6			6.00	0.00	
	Recommendation based on findings formulated (no.)		3	3	6	0	0	6			6.00	0.00	
- Implementation of Strategic Communication Plan (RDECs)													
a. Partnership (with public and private organization)	Stakeholders partnered (no.)	1	4	1	6	2	3	1			6.00	0.00	WWRRDEC, ARDEC
b. Capacity building	Trainings conducted (no.)		3	6	9	1	1	5			7.00	2.00	WWRRDEC
	Training reports prepared and submitted (no.)		3	6	9	0	1	2			3.00	6.00	
	Action plan prepared (no.)		1	2	4	0	1	1			2.00	2.00	
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	1		4.00	4.00	
	Techno-forum/seminar/symposium/ educational tour report prepared and submitted (no.)	1	3	2	2	8	0	2	2		4.00	4.00	
	IEC materials produced (no.)		1	1	2	0	1	1			2.00	0.00	
	Demo Area/Show windows improved and maintained (no.)	1	1	1	1	1	1	1			1.00	0.00	WWRRDEC
	Exhibit conducted/participated (no.)		1	2	3	0	1	0			1.00	2.00	
	Radio guesting conducted (no.)	1	1	1	1	4	1	1	1		3.00	1.00	ARDEC
	Show window established (no.)			1	1	0	0	1			1.00	0.00	

d. Progress Tracking	Monitoring activities conducted (no.)	6	8	6	7	27	5	6	6		17.00	10.00	
	Progress report prepared and submitted (no.)	4	5	4	5	18	6	5	6		17.00	1.00	
Activity 3. Strategic Communication Plan (Main Office and RDECs)	Strategic Communication Plan 2020-2021 reviewed (no.)	6				6	5	0	0		5.00	1.00	
	Strategic Communication Plan consolidated (no.)				6	6	0	0	0		0.00	6.00	
	Strategic Communication Plan prepared and submitted (no.)	1		1	3	5	0	1	0		1.00	4.00	
	KAP Survey/Stakeholder Analysis report prepared and submitted (no.)	2		7	7	16	2	0	2		4.00	12.00	WWRRDEC
	Technology promotion report prepared and submitted (no.)				1	1	0	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		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 IEC Materials (Main Office and RDECs)	(Main Office)			1		1	0	0	0		0.00	1.00	
	- TTE Framework 2022 - 2026 (Manual) prepared (no.)			1		1	0	0	0		0.00	1.00	
	- Enhanced techno transfer and extension workshop report prepared and submitted (no.)		1			1	0	1	0		1.00	0.00	
	- Booklet on Success stories on Bamboo produced (no.)			1		1	0	0	0		0.00	1.00	
	- Sylvatrop printed (no. of copies)			500	500	1000	0	0	1200		1200.00	-200.00	
	- Canopy International printed (no. of copies)			1000	1000	2000	100	0	0		100.00	1900.00	
	(WWRRDEC)												
	- Flyers produced (no. of copies)			500		500	0	0	0		0.00	500.00	
	- Coffeetable Book produced (no. copies)		300			300	0	300	0		300.00	0.00	
	- Briefing kits produced (no. of copies)			500		500	0	0	0		0.00	500.00	
	- TeKnow Comics (no. of copies)				500	500	0	0	0		0.00	500.00	
	(UBRDEC)												
	- Poster produced (no. of copies)	200				200	0	0	100		100.00	100.00	
	- Brochure produced (no. of copies)		500			500	0	0	500		500.00	0.00	
	- focused IEC collaterals produced (no.)			500		100	0	0	100		100.00	0.00	
	- UBRDEC Experimental Forests Booklet (no. of copies)				100	100	0	0	0		0.00	100.00	
	(THWRDEC)												
	- IEC materials printed/produced (no.)		2	3		5	0	3	2		5.00	0.00	
	- IEC materials distributed to clientele/stakeholders (no. of copies)	100	200	400	300	1000	113	205	600		918.00	82.00	

	(CRERDEC)											
	- Fact sheet printed (no. of copies)			100		100	0	0	0		0.00	100.00
	- Branding collaterals produced (no. of pieces)	100				100	0	100	0		100.00	0.00
	(ARDEC)											
	- Briefing kits produced (no. of copies)	100				100	0	100	0		100.00	0.00
	- Primer produced (no.)	200				200	0	200	0		200.00	0.00
	- Poster of technology being promoted produced (no. of copies)		200			200	0	0	200		200.00	0.00
	- Coffeetable Book of Agroforestry Best Practices produced (no. of copies)			10		10	0	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	29		78.00	4.00
	Ecoklaro episodes uploaded (no.)		1		1	2	1	2	0		3.00	-1.00
	Social Media pages maintained/updated (no.)	7	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	36		102.00	9.00
	Increased Facebook followers (no.)	375	375	375	375	1400	392	620	391		1403.00	-3.00
	TV/Radio guestings facilitated/coordinated (no.)	8	9	8	7	28	2	10	12		24.00	4.00
Activity 3. Visual Communication of Ecosystem Technologies (Main Office and RDECs)	Technology exhibitions produced (no.)	1	3	3	1	8	0	1	4		5.00	3.00
	Exhibit viewers' feedback reports prepared (no.)	1		2	1	4	1	0	2		3.00	1.00
	Exhibit posters designed (no.)	5			5	10	5	0	0		5.00	5.00
	Audio Visual Production (AVP) produced (No.)	2	4	6	6	18	2	3	4		9.00	9.00
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		2.00	0.00
	Consolidated TA reports prepared and submitted (no.)	3	4	5	4	16	4	1	8		13.00	3.00
	Database of TA Resource Persons maintained (no.)	1	1	1	1	1	1	1	1		1.00	0.00
	TA provided (no.)	9	10	11	10	40	20	4	13		37.00	3.00
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		6.00	0.00
	Consolidated IEC reports prepared and submitted (no.)	2	2	2	2	8	3	1	1		5.00	3.00
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	1	0	0		1.0	0.00
	Adopters of ENR Technology interviewed (no.)		10	10	10	30	0	10	10		20.00	10.00

	Datasets gathered and analyzed (no.) (Socio-economic data, Factors affecting adoption, Recommendations)	3	3	3	3	3	3	3	3	3.00	0.00	
	Evaluation reports with policy recommendations prepared and submitted (no.)			1	1	0	0	0		0.00	1.00	
Activity 2. Documentation of Success Stories of Technology Adoption	Conceptualization workshop conducted (no.)	1			1	1	0	0		1.00	0.00	
	Workshop/writeshop on consolidation and processing of data/materials conducted (no.)	1	1	1	3	0	0	2		2.00	1.00	
	Set of data/materials processed (no.) (LGU, Business Enterprise, PO/Private Individual)	1	1	1	3	0	0	2		2.00	1.00	
	Field validation and documentation conducted (no.)	1	1	1	3	0	0	0		0.00	3.00	
	Booklet drafted/laid out (no.)			1	1	0	0	0		0.00	1.00	
	Printed IEC material produced (no. of copies)			200	200	0	0	0		0.00	200.00	
E.2. Research, Development and Extension Centers' Implementation of RDE Programs/ Projects/Studies												
E.2.a. Watershed and Water Resources Research, Development, and Extension Center (WWRDEC)												
1. Program on Forests Ecosystem Resiliency and Sustainability												
Project. Water Balance Estimation in Different Climatic Types in Luzon Island, Philippines (Proposed New Project for 2nd QTR) (April 2021 - March 2023)												Currently endorsed to ERDB ExeCom for approval. Implementation was re-scheduled on August 2021 considering the travel restrictions in the project sites.
2. Program on Promoting Ecosystem Health and Sustainability of Urban Areas through Research and Development												
Project. Assessment of the Prevalence of Sinkholes in Baguio City (Proposed New Project for 2nd QTR) (April 2021 - March 2023)	Vegetation and soil characteristics assessed (no. of sites)		3	4	7	0	0	0		0.00	7.00	Preliminary activities were done for the 2nd quarter, activities include: coordination with DENR regional offices, LGUs, and other stakeholders. Existing land-use plans were also reviewed.
	Sinkholes characterized (no. of sites)		3	4	7	0	0	0		0.00	7.00	
	Demographic-economic socio-psychological profile of urban households characterized (no.)		1	1	1	0	0	0		0.00	1.00	Secondary data were acquired from BLGUs: Brgy Profile, DRRM Plan, and Land-use Plans and map of identified sinkholes in the City was provided by MGB-CAR.
3. Program on Emerging Issues												
Project. 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	0		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	2	2	2	2	2	2	2		2.00	0.00	

	(no.)													
	- callus formation & pest incidence													
	Database on pest infestation in Regions 1, 2, 3 & CAR updated (no.)				1	1	0	0	0			0.00	1.00	
	Integrated pest management strategies developed (no.)				1	1	0	0	0			0.00	1.00	
Project. Benguet Pine Characterization in Selected Disturbed and Undisturbed Sites of Benguet Province														
<i>Component 1. Biophysical Assessment of Selected Pine Forests in Benguet Province (August 2020 - December 2021)</i>	Soil samples collected and analyzed (no.)	1	1			2	1	1	0			2.00	0.00	
	Water quality and quantity assessed (no.)	2	5			7	2	1	4			7.00	0.00	
	Pine forest documented for existing and potential threats (no.)	1	1			2	1	0	1			2.00	0.00	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	0	0			0.00	1.00	
<i>Component 2. Population Structure and Regeneration Status of Pinus kesiya Royle ex Gordon Forests in the Province of Benguet (August 2020 - December 2021)</i>	Primary data on pine forest regeneration gathered (no.)	2	4	2		5	2	2	0			4.00	1.00	
	Database and maps on the population structure and regeneration of Benguet Pine forests developed (no.)				1	1	0	1	0			1.00	0.00	
<i>Component 3. GIS-based Forecasting Model Early Detection of Bark Beetle Outbreak in Disturbed and Undisturbed Pine Forests in Baguio City. (August 2020 - July 2023)</i>	Sites assessed and characterized (no.)	2				2	1	1	0			2.00	0.00	
	Bark beetle life history assessed and documented (no.)	1	1	1	1	1	0	1	1			1.00	0.00	Collection and early stage assessment
	Biotic and abiotic data gathered (dataset)				2	2	0	0	0			0.00	2.00	
Project. Environmental Carrying Capacity of Baguio City (July 2020 - June 2021)	Biophysical parameters assessed/ characterized (no.) - Flora & Fauna	2				2	2	2	0			2.00	0.00	The project was extended until September 2021 for the processing and computing of Carrying Capacity values.
	Physical parameters assessed (no.) - Water - Soil - Infrastructure	3	3			3	2	2	3			3.00	0.00	Interpretation of data and report writing is on process.
	Carrying capacity of Baguio City determined (no.)		1			1	0	0	0			0.00	1.00	
4. Maintenance of Laboratory in Support to the Centers RDE projects	Laboratory maintained (no.)	1	1	1	1	1	1	1	1			1.00	0.00	Continuous/regular activity.
E.2.b. Urban and Biodiversity Research Development and Extension Center (UBRDEC)														
1. Program on Forests Ecosystem Resiliency and Sustainability														
Project. Market Chain Analysis of Selected Non-Timber Forest Products for Equitable	Market data for non-timber forest products gathered (no. of products)	5	5			5	5	5	0			5.00	0.00	Integration and analysis of data gathered from the market channels is on process for the crafting/drafting

Revenue Distribution (July 2019 - December 2021) <i>extended</i>												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	0		6.00	0.00	
2. Program on Ecosystems Dynamics and Sustainable Management of Coastal and Freshwater Ecosystems												
Project. 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	0		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	1		1.00	0.00	Initial computation of PPUR's carrying capacity is done subject to the review of ERDB Technical Divisions and CarCap Committee.
	Technical information on the biogeochemical processes of Puerto Princesa Underground River (PPUR) generated (no.)		1		1	0	0	0		0.00	1.00	Awaiting submission of completion report
	Carrying capacity of PPUR updated (no.)		1		1	0	0	0		0.00	1.00	
Project. Development of Pagbilao Mangrove Experimental Forest Station (April 2017 - March 2022)	Mangrove nursery maintained (no.)	2	2	2	2	2	2	2	2	2.00	0.00	Continuous/regular activity
	Mangrove experimental plantations maintained (no.)	2	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	0	2000.00	1000.00	
	Mangrove production protocol developed (no.)			2	3	5	0	1	0	1.00	4.00	
	Mangrove growth data gathered and analyzed (no.)	1	1	1	1	1	1	1	0	1.00	0.00	Assesment of 38 IPTs was done on April 19
Project. 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	0		1.00	0.00	Completed project with report submitted to DERN CO last September 15, 2021
	Datasets gathered and analyzed (no. of site)											
	- Biomass C Stocks	1	1		1	1	1	0		1.00	0.00	
	- Soil C Stocks and losses	1	1		1	1	1	0		1.00	0.00	
	Biomass Maps generated (no.)		1		1		0	1		1.00	0.00	
3. Program on Promoting Ecosystem Health and Sustainability of Urban Areas through Research and Development												
Project. 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	Proposal for final review. Adjustments in the proposal were made to conform with the new normal setting.
	Climate Change readiness assessed (no. of sites)			1	2	3				0.00	3.00	
4. Program on Emerging Issues												
Project. Assessment of Carrying Capacity of Puerto Galera, Oriental Mindoro (August 2020 - December 2021)	Biophysical parameters assessed/ characterized (no.)	4			4	4	4	4		4.00	0.00	
	Carrying capacity parameters assessed (no.) - socio-economic - traffic and transport	3	3		3	2	1	0		3.00	0.00	

	- solid and liquid wastes												
	Carrying capacity of Puerto Galera determined (no.)			1		1	0	1	0		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		1.00	0.00	Continuous/regular activity.
E.2.c. Coastal Resources and Ecotourism Research, Development, and Extension Center (CRERDEC)													
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 - June 2021) <i>extended</i>	Growth performance and survival rate measured (no of sites)	2	3			5	2	3	0		5.00	0.00	Completion report was submission to DENR CO last September 15, 2021
	Growth variation of Mangrove plantations determined (no.)	1	1			1	1	1	0		1.00	0.00	
Project. Ecotourism Management Analysis of Selected Marine Protected Area (MPAs) in the Philippines (Proposed New Project for 2nd QTR) (April 2021 - March 2025)													For ERDB Execom deliberation prior implementation
Project. 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	0	0		0.00	3.00	Implementation started September 1, 2021. Preliminary assessment of the site was done for the month.
	Crab samples analyzed (no.)			1	1	2	0	0	0		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	0	0		0.00	2.00	
2. R&D Program on Emerging Issues													
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	0	0	0				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	0		3.00	0.00	Activities were put on hold due to restrictions imposed by LGU of Coron. Initial interview survey was done. Other parameters shall be assessed on the 4th quarter. Close coordination with DENR offices, LGYs was done for the collection of secondary data. Collection of data shall commence in October 2021
	Carrying capacity of Coron, Palawan determined (no.)					1	0	0	0		0.00	1.00	
3. Maintenance of Laboratory in Support to the Centers RDE projects	Laboratory maintained (no.)	1	1	1	1	1	1	1	1		1.00	0.00	Continuous/regular activity.
E.2.d. Agroforestry Research, Development, and Extension Center (ARDEC)													
1. Program on Forests 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 (January 2018 - December 2022)	Experimental plots maintained (no.)	36	36	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	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	3		9.00	3.00	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. Skeletonizing of leaves was also observed in Almon and presence of red ants is visible on the stem but still minimal. Conducted handpicking and removal of infected leaves and spraying of insecticide was the immediate action done
	Biological datasets collected and analyzed (no.) - survival - height - diameter - health	4	4	4	4	4	4	4	4	4	4.00	0.00	
	Soil collected and analyzed for pH, texture, bulk density, NPK, & organic matter (no. of set)				3	3	0	0	0		0.00	3.00	
Project. Control and management of invasive alien species (<i>Piper aduncum</i> L.) to improve productivity and biodiversity of Lake Sebu, South Cotabato (March 2018 - December 2021) <i>extended</i>	Pilot areas protected, maintained and monitored (has.)	5	5	5	5	5	5	5	5	0	5.00	0.00	Phase II implementation of the project was put on hold, awaiting for the submission of progress/ completion report.
	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	0	3.00	0.00	
	Live fence maintained (linear meter)	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	0.00	1300.00	0.00	
	Demonstration area/learning site established and maintained (no.)	1	1	1	1	1	1	1	1	0	1.00	0.00	
Project. 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	0	4	0		4.00	0.00	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 where 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	0	0	1		1.00	1.00	Assessment on EGS particularly on Carbon Stock was already finished. Data collection for forest inventory shall be continuously done on the 4th qtr.
	Ecosystem goods and services analyzed verified, and validated				2	2	0	0	0		0.00	2.00	
RDE project in the FY 2021 proposal pipeline	RDE proposal reviewed and approved for implementation (no.)		2	2	2	2	1	1	1		1.00	1.00	ExeCom deliberation of the project proposal titled "Impact Determination of Community-Based Forest Mangement (CBFM) Projects in Selected Areas in the Philippines"
2. Maintenance of Laboratory in Support to the Centers RDE projects	Laboratory maintained (no.)	1	1	1	1	1	1	1	1		1.00	0.00	Continuous/regular activity.
E.2.e. Forest and Wetland Research, Development and Extension Center (FWRDEC)													
1. Program on Forests Ecosystem Resiliency and Sustainability													
Project. Performance of different cloned climax species interplanted in existing tree plantation within mined-out areas of	Growth performance dataset (survival, height, diameter, and health status) collected (no.)	1	1	1	1	1	1	1	1	1	1.00	0.00	Quarterly data gathering

Carmen Copper Corporation (CCC) (May 2017 - April 2022)	Experimental plots monitored, maintained, and protected (no.)	3	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	1.00	0.00	
	Soil samples collected and analyzed for NPK and heavy metals (no.)			22		22	0	0	0		0.00	22.00	
	Manual on Rehabilitation of Mined-out Areas using Climax Species drafted (no.)				1	1	0	0	0		0.00	1.00	
Project. Establishment of Demonstration Areas (September 2018 - August 2022)	Demonstration area maintained and monitored (no.)	4	4	4	4	4	4	4	4	4	4.00	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	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	0		0.00	2.00	
2. Program on Ecosystems Dynamics and Sustainable Management of Coastal and Freshwater Ecosystems													
Project. Updating of Profile/Status of Priority Peatlands in the Philippines (Proposed New Project for 2nd qtr) (April 2021 - March 2023)	Flora and fauna assessed (no. of sites)		2	2		2	0	2	2		2.00	0.00	Assessment was rescheduled on the 3rd quarter
	Water samples collected and analyzed (no.)		4	4		8	0	4	2		6.00	2.00	
	Experimental sampling plots established (no. of sites)		1	1		2	0	1	1		2.00	0.00	
RDE project in the FY 2021 proposal pipeline (NEW proposal stage)	RDE proposal reviewed and approved for implementation (no.)		1	1	1	1	0	1	1		1.00	0.00	3rd review of project proposal titled "Ecological and Socio-economic of Lake Panlabuhan in Agusan Marsh Wildlife Sanctuary, Agusan del Sur, Lake Maragang in Tigbao, Zamboanga del Sur and Lake Sebu in Cotabato.
3. Maintenance of Laboratory in Support to the Center's RDE projects													
E.2.f. Toxic and Hazardous Wastes Research Development, and Extension Center (THWRDEC)													
1. Program on Promoting Ecosystem Health and Sustainability of Urban Areas through Research and Development													
Project. Development of low-cost adsorbents from rice, coconut, sugarcane and maize residues for the removal of hexavalent chromium in tannery wastewater (October 2018 - June 2021)	Water quality parameters determined (no. of datasets)	3				3	3	3	0		3.00	0.00	Project is already completed. Completion report was already submitted to DENR CO PPS last June 30, 2021
	Low cost-adsorbent from Agricultural Waste Materials developed (no.)		4			4	4	4	0		4.00	0.00	
Project. Development of Barangay Management	Data validation (no.)	3				3	0	0	3		3.00	0.00	Completion report was submitted to DENR PPS

System for Household Hazardous Wastes in Quezon City, Metro Manila (February 2020 - September 2021)	Propose Barangay Household Haardous Wastes Management System developed (no.)			1	1	0	0	1		1.00	0.00	last July 15, 2021.
Project. Healthcare Waste (HCW) Management Practices by Non-Hospital-based Clinical Laboratories in Selected Cities in Metro Manila (Propose NEW project for 2nd qtrtr) (April 2021 - June 2022)	Clinical laboratories validated (no. of sites)		3		3	0	2	1		3.00	0.00	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.
	Laboratory waste management system and policies reviewed and assessed (no.)		43	43	86	0	0	44		44.00	42.00	Due to limited mobility during ECQ, interview schedule will be sent to clinical laboratories' e-mails.
	Respondents interviewed (no.)		258	258	516	0	0	176		176.00	340.00	
RDE project in the FY 2021 proposal pipeline (NEW proposal stage)	RDE proposal reviewed and approved for implementation (no.)		2	2	2	2	1	2	2	2.00	0.00	One proposal approved for implementation. WFP is under review. Project title: Heavy Metal Contamination and Spatial Distribution of Soild in Selected Urban Areas in the Philippines
												Proposal reviewed and endorsed for ERDB ExeCom deliberation and approval "Heavy Metals Toxicity and Fecal Coliform Contamination in Asian Clam"
Project. 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	0	0	33		33.00	13.00	
	Soil samples collected (no.)		34	16	50	0	0	34		34.00	16.00	
	Soil samples analysed (no.)		32	14	46	0	0	34		34.00	12.00	
E.3. Emerging Issues and other Research Initiatives in support to Major Programs of the Philippine Government	Research project conducted (no.)	var.	var.	var.	var.	4	2	2	4	4.00	0.00	Support to the implementation of CO-based funded projects on LPPWP; Nilad; Interception Capacity of Some Firest Tree Species; and Carrying Capacity Assessment of the Beach Nourishment Project Site City of Manila, Philippines
Project Management and Supervision (PMS)												
Management and Supervision of RDE programs/projects/activities	RDE projects' implementation supervised (no. of projects)	16	22	27	25	33	16	18	23	23.00	10.00	23 RDE projects supervised as of September 31, 2021 5 completed projects as of June 30, 2021; four (4) of which with submitted completion report to DENR CO.
	Consortium related to RDE participated/partnered (no.)	7				7	5	3	0	8.00	-1.00	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.) ERDB Manuals/Guidelines reviewed (no.)			2	2	2	0	0	0		0.00	2.00	
					2	2			2		2.00	0.00	1. Guidelines on the Implementation of Externally-Funded Projects of ERDB
Fixed Expenditures/Mandatories													2. Guidelines in the Preparation, Submission, and Evaluation of ENR RDE Completion and Termination Reports and other Related Documents.
RLIP													
III. Operations													
A. Natural Resources Conservation and Development Program													
Forest and Watershed Management Sub-Program													
<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 indigenous forest tree species produced (no.)	6 30,000	6 30,000	6	6	6	6	6	6		6.00 98802.00	0.00 -38802.00	
ERDB Main Office		1 5,000	1 5,000	1	1	1	1	1	1		1.00 33642.00	0.00 -23642.00	
Research Centers:													
1) WWRRDEC		1 5,000	1 5,000	1	1	1	1	1	1		1.00 13277.00	0.00 -3277.00	
2) UBRDEC		1 5,000	1 5,000	1	1	1	1	1	1		1.00 12738.00	0.00 -2738.00	
3) CRERDEC		1 5,000	1 5,000	1	1	1	1	1	1		1.00 11387.00	0.00 -1387.00	
4) FWRDEC		1 5,000	1 5,000	1	1	1	1	1	1		1.00 12888.00	0.00 -2888.00	
5) ARDEC		1 5,000	1 5,000	1	1	1	1	1	1		1.00 14870.00	0.00 -4870.00	
	Macro-propagation protocol developed (no.)				6	6	1	2	1		4.00	2.00	
2. Plantation Establishment and Development	Area planted (has.)			60	60	120	0	0	22		22.00	98.00	
ERDB Main Office				10	10	20	0	0	10		10.00	10.00	
Research Centers:													
1) WWRRDEC				10	10	20	0	0	0		0.00	20.00	
2) UBRDEC				10	10	20	0	0	0		0.00	20.00	
3) CRERDEC				10	10	20	0	0	0		0.00	20.00	
4) FWRDEC				10	10	20	0	0	0		0.00	20.00	
5) ARDEC				10	10	20	0	0	12		12.00	8.00	
3. Maintenance and Protection of Established Developed Plantations for the 1st year	Plantation maintained and protected (has.)				120	120	0	0	0		0.00	120.00	
ERDB Main Office					20	20	0	0	0		0.00	20.00	
Research Centers:													
1) WWRRDEC					20	20	0	0	0		0.00	20.00	
2) UBRDEC					20	20	0	0	0		0.00	20.00	
3) CRERDEC					20	20	0	0	0		0.00	20.00	
4) FWRDEC					20	20	0	0	0		0.00	20.00	
5) ARDEC					20	20	0	0	0		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		120.00	0.00	
ERDB Main Office		20	20	20	20	20	20	20	20		20	0.00	
Research Centers:													
1) WWRRDEC		20	20	20	20	20	20	20	20		20	0.00	

2) UBRDEC		20	20	20	20	20	20	20	20	20	20	0.00
3) CRERDEC		20	20	20	20	20	20	20	20	20	20	0.00
4) FWRDEC		20	20	20	20	20	20	20	20	20	20	0.00
5) ARDEC		20	20	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	4	4.00	0.00
	Equipment calibrated (no.)		10			10	0	0	10		10.00	0.00
a) Establishment of trap plants and production of mycorrhizal inoculants	Mycorrhizal inoculants produced (no.)	50	50			100	0	100	0		100.00	0.00
	Hi-Q VAM 1 inoculants harvested and packed with acceptable spore count, viability, and purity (tons)			50	50	100	0	0	70		70.00	30.00
	Hi-Q VAM 1 distributed to DENR Regional offices (tons)	200				200	34.32	180.39	0.00		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	3		4.00	2.00
c) Nursery Screening of Hi-Q VAM 2	Patent for Hi-Q VAM 2 applied (no.)				1	1	0	0	0		0.00	1.00
d) Production of IEC Materials	IEC Materials produced (no.)	1				1	0	0	0		0.00	1.00
	IEC Materials printed (no. of copies)	20,000		15,000		35,000	0	0	20000		20000.00	15000.00
e) Conduct of Buil-in Research on the effectiveness of mycorrhiza	Experimental sites for mycorrhiza established (no.)		2	2		2	0	0	0		0.00	2.00
	Species tested (no.)			2	2	4	0	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	6	6.00	0.00
ERDB Main Office		1	1	1	1	1	1	1	1	1	1.00	0.00
Research Centers:												
1) WWRDEC		1	1	1	1	1	1	1	1	1	1.00	0.00
2) UBRDEC		1	1	1	1	1	1	1	1	1	1.00	0.00
3) CRERDEC		1	1	1	1	1	1	1	1	1	1.00	0.00
4) FWRDEC		1	1	1	1	1	1	1	1	1	1.00	0.00
5) ARDEC		1	1	1	1	1	1	1	1	1	1.00	0.00
	Candidate plus trees identified (no.)	55	35	40	40	170	73	62	41		176.00	-6.00
	Phenological calendar updated (no. of species)	5	11	11	10	37	25	25	20		70.00	-33.00
	Seeds collected (no. of seedlot)	10	15	15	14	54	13	26	20		59.00	-5.00
	Seeds validated (no. of seedlot)	5	10	15	10	40	1	10	8		19.00	21.00
	Collected seeds processed (no. of seedlot)	12	15	15	15	57	12	28	32		72.00	-15.00
	Seedlot tested (no.) - purity test, % germination, seed count, % moisture content	20	20	20	30	90	21	59	29		109.00	-19.00
	Seed documented and registered (no.)	20	30	25	25	100	17	65	36		118.00	-18.00
	Seed protocol developed (no. of species)	2	10	8	10	30	2	14	3		19.00	11.00
	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	7		17.00	3.00	
	Database system on the biological, physical, socio-economic, and spatial characteristics of assessed 2015 & 2016 NGP sites developed (no.)					1	1	0	0	0	0.00	1.00	
	Executive summary submitted (no.)					1	1	0	0	0	0.00	1.00	
	Reports prepared (no.)					20	20	0	0	0	0.00	20.00	
b) Special studies	Special studies conducted (no.)	4	4	4	4	4	1	2	3		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	0		0.00	600.00	No activities conducted yet.
	Experimental plots established (no. of sites)			2		2	0	0	0		0.00	2.00	
	Growth data gathered (no.) - survival, height, diameter					6	6	0	0	0	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	1		1.00	1.00	Levelling-off meeting already conducted and initial coordination for the target sites were accomplished.
	Data gathered (no.)	1	3	4		8	0	0	5		5.00	3.00	
	Data analyzed (no.)		4	4		8	0	0	0				
b. 3. Assessment of Field performance of Planted QPMs for NGP	Experimental sites maintained (no.)	3	3	3	3	3	3	3	3		3.00	0.00	Processing of data and report writing
	Quality Planting Materials (QPMs) assessed (datasets per site) - diameter, height, survival	3	3	3	3	3	0	3	0		3.00	0.00	
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	0		200.00	0.33	
	Cuttings produced (no.)	600				600	0	0	600		600.00	0.00	
	Efficiency of propagation technologies assessed and documented (no.)			2	2	2	0	0	2		2.00	0.00	
c) Soil Mapping for the preparation of Forest Soils Map	NGP sites assessed (no.)		3	3	2	8	0	0	0		0.00	8.00	
	Soil properties/parameters analyzed (no.)					10	10	0	0	0	0.00	10.00	
	Maps generated (no.)					8	8	0	0	0	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		24.00	0.00	
ERDB Main Office (maintained under LESD)		1	1	1	1	1	1	1	1		1.00	0.00	
Research Centers:													
1) WWRRDEC		4	4	4	4	4	4	4	4		4.00	0.00	
2) UBRDEC		5	5	5	5	5	5	5	5		5.00	0.00	
3) CRERDEC		6	6	6	6	6	6	6	6		6.00	0.00	
4) FWRDEC		7	7	7	7	7	7	7	7		7.00	0.00	
5) ARDEC		1	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	0		3.00	100%	
f) UPLB project (Integrated Research and Development for High Value Forest Crops)	Downloaded to UPLB-CFNR with separate WFP												

g) Monitoring and Evaluation												
Turned-over Clonal Facilities and Seed Sources	Sites monitored and evaluated (no.)											
	- Turned-over clonal nurseries (regions)	3	5	5	3	16	0	0	0	0.00	16.00	
	- Retained Seed sources (sites)	14	25			39	0	1	0	1.00	38.00	
	- Bamboo Plantations (regions)	2	6	5	2	15	0	0	1	1.00	14.00	
	- Mangrove Plantations (regions)	var.	var.	var.	var.	0	0	0	0	0.00	0.00	
	Bamboo IEC materials produced (no. of copies)		1,500			1,500	0	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	2	8.00	4.00	
	- Quarterly	1	1	1	1	4	1	1	1	3.00	1.00	
	- Semi-annual		1			1	0	1	0	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	0	2	0	2.00	0.00	
	- Phenological calendar and seed testing		1			1	0	1	0	1.00	0.00	
	- Carbon Sequestration Potential		1			1	0	1	0	1.00	0.00	
8. Hiring of Project Development Officers	Project Development Officers hired (no.)	4	4	4	4	4	4	4	4	4.00	0.00	
											Hired for 6 months (Jan to June 2021)	

B. Environmental and Natural Resources												
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.)		3	8	3	14	1	1	5	7.00	7.00	
											Provided technical assistance to DENR Region 6 Capiz on February 2021	
											Provided technical assistance to DENR CAR on June 21-25, 2021	
											Provided technical assistance to DENR Region 3 (CENRO-Dingalan, Aurora), San Luis Watershed dated August 23-27, 2021	
											Provided technical assistance to DENR Regions 13 and MIMAROPA virtually and Region 1 face to face on September 27 to October 1, 2021	
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	0	15.00	-8.00	
	Workshop/training on vulnerability assessment report writing conducted (no.)				1	1	0	0	0	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	0	0.10	0.30	0.40	0.60	
											Reconnaissance surveys for seagrass beds in 5 out of 6 barangays in Lobo, Batangas. Subtidal seagrass habitats were confirmed in Lagadlarin and Olo-olo.	

