

FOREIGN-ASSISTED AND SPECIAL PROJECTS

The DENR FAPs Portfolio in 2020 consisted of 16 projects, with an aggregate cost of US\$363.95 Million or approximately PhP18.20 Billion. About 59% of the total Portfolio cost or US\$216.52 Million represents two (2) loan projects, namely: JICA Forestland Management Project (FMP, July 2012- July 2023), ADB/IFAD/GEF - Integrated Natural Resources Management Project (INREMP, Aug 2013-Dec 2021), while 41% or US\$147.43 Million corresponds to the aggregate cost of fourteen (14) grant projects.

Table 16 Size of Portfolio by Project Type

PROJECT TYPE	NO. OF PROJECTS	TOTAL PROJECT COST (In Million US\$)				% OF TOTAL
		LP	GP	GOP	Total	
Loan Projects	2	166.18	2.50	47.84	216.52	59%
Grant Projects	14		59.64	87.79	147.43	41%
TOTAL	16	166.18	62.14	135.63	363.95	100%

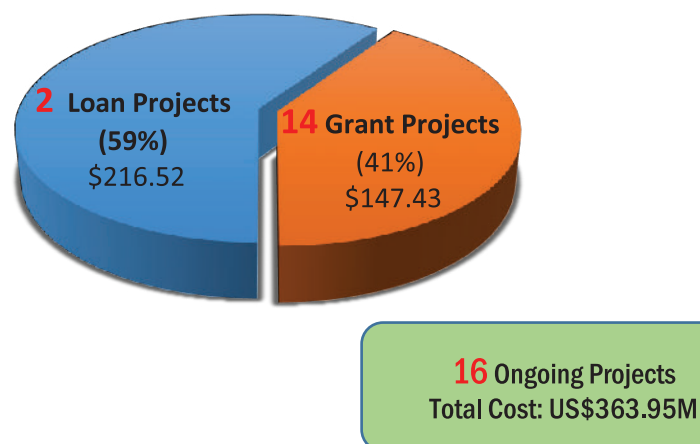


Figure 13.1 FAPs Portfolio by Cost for 2012-2023

In terms of funding type, loan proceeds account for 46% or US\$ 166.18 Million, grant proceeds account for 17% or US\$ 62.14 Million, while 37% or US\$ 135.63 Million is GOP counterpart. The cost of the GOP counterpart is for two (2) loan projects (FMP and INREMP) and four (4) grants projects, namely, 1) ADB/GEF Combatting Environmental Organized Crime in the Philippines; 2) UNDP/GEF Strengthening the Marine Protected Area System to Conserve Marine Key Biodiversity Areas; 3) UNIDO/GEF Implementation of PCB Management Programs for Electric Cooperatives (ECs) and Safe e-waste Management; and 4) UNIDO/GEF Global Partnership for improving the food cold chain in the Philippines. The GOP counterpart of grant projects are in the form of cash and in-kind contribution such as personnel attribution, provision of office space including utilities for the project management offices, other logistical support and other services provided by DENR and LGUs in the implementation of project activities.

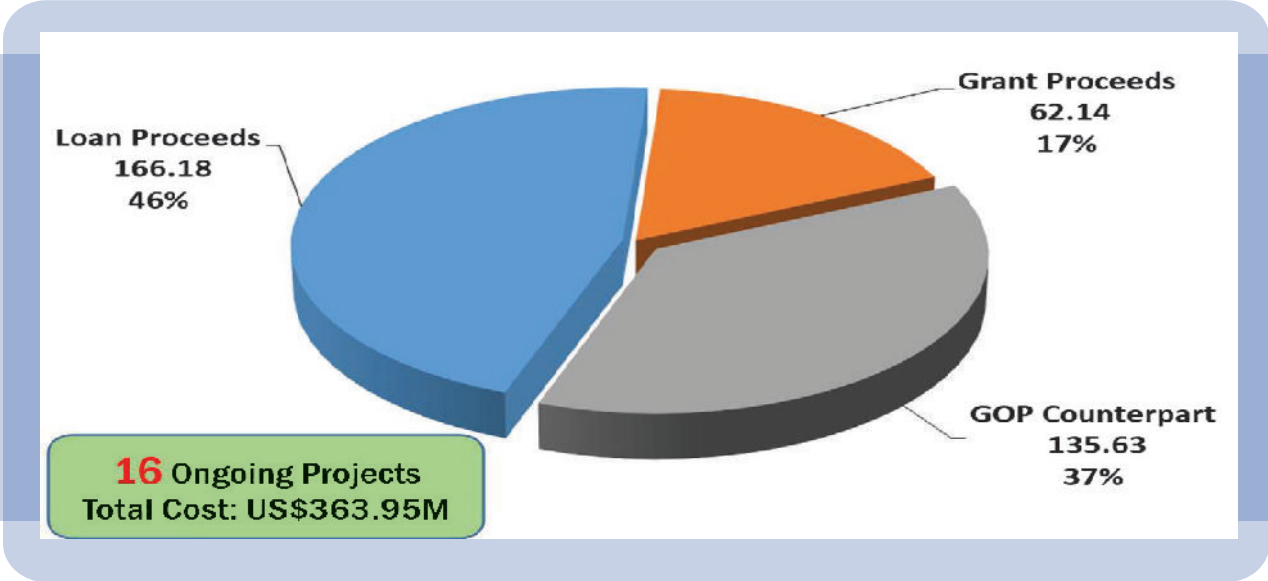


Figure 13.2 FAPs Portfolio by Type of Funding for 2012-2023

Sectoral Distribution of Projects

The Forestry sector received the biggest share in the FAPs Portfolio, i.e. 60% or about US\$217.66 Million. The Environment sector received a sizable amount of foreign assistance at US\$46.81 Million or almost 13% of the Portfolio. This is followed by the Coastal/Marine sector and Biodiversity sector which have a share of US\$34.83 (10%) and US\$29.81 Million (8%), respectively. The Climate Change sector has a share of US\$28.99 (8%), and the Mines sector received US\$5.85 Million (1.61%).

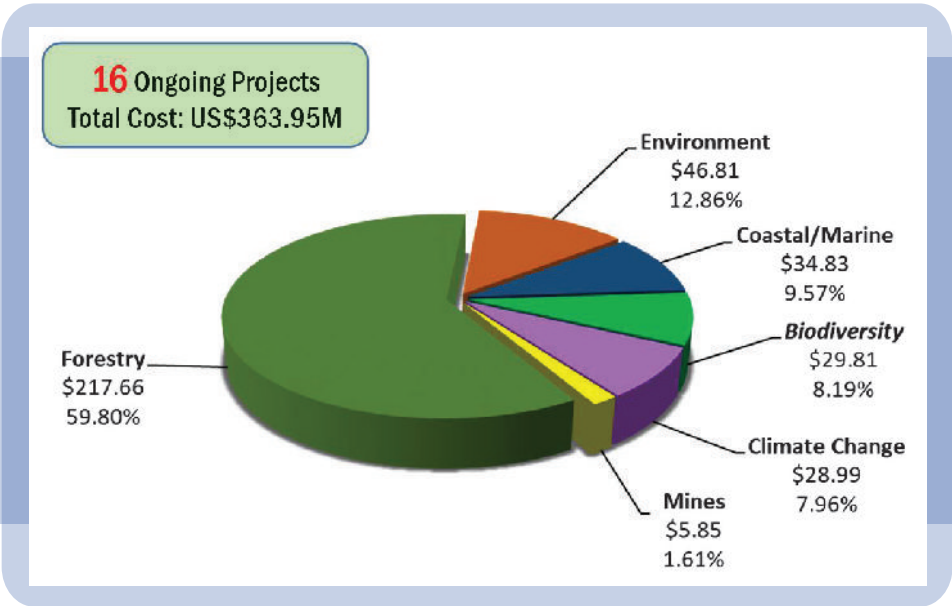


Figure 13.3 FAPs Portfolio by Sectoral Distribution for 2012-2023

Table 17. List of Ongoing Loan and Grant Foreign-Assisted Projects

PROJECT TITLE		FUNDING AGENCY	PROJECT COST (US \$ '000)				PROJECT DURATION	PROJECT LOCATION
			LOAN PROCEEDS	PROJECT LOCATION	GOP	TOTAL		
GRAND TOTAL			166,178.86	62,144.95	135,627.97	363,951.78		
BIODIVERSITY			0.00	29,233.04	575.76	29,808.80		
1	Protect Wildlife Project	USAID		24,498.18		24,498.18	June 2016-Dec. 2020 (Ext. 2021)	Region 3 - Aurora, Nueva Ecija, Bataan Regions 4b - Palawan Region 9 - Zamboanga City Region 12 - Sarangani, General Santos City, South Cotabato ARMM - Tawi-Tawi
2	Biodiversity Finance Initiative (BIOFIN) Phase 2	UNDP, Government of Germany, Flanders, Norway, Switzerland and European Union		2,150.00		2,150.00	June 2018-Dec. 2022	Region 3 Region 4A Region 4B - Oriental and Occidental Mindoro Region 6 - Negros Oriental Region 7 - Cebu and Negros Occidental Region 9 Region 12
3	Combatting Environmental Organized Crime in the Philippines	GEF ADB		1,834.86 750.00	575.76	3,160.62	Oct. 4, 2018-Dec. 2020 (Ext. Dec. 2021)	NCR - Metro Manila; Region 7 - Cebu; Regio 13 - Surigao del Norte, Surigao del Sur, Agusan del Norte

COASTAL/MARINE				9,000.00	25,833.00	34,833.00		
	Strengthening the Marine	GEF/UNDP		8,000.00	16,853.00	33,833.00	June 2014 - June 2019	Region 4A - Batangas (Verde
	Protected Area System to Conserve Marine Key Biodiversity Areas (SMART-SEAS)	UNDP			8,980.00		(Ext. Jan. 2021)	Island Passage); Region 4B - Occ. Mindoro, Oriental Mindoro, Marinduque, Romblon, Southern Palawan (Aborlan, Narra, Espanola, Brookes Point, Bataraza); Region 6 and Region 7 - Negros Oriental, Cebu (Tanon Strait Protected Seascapes) Region 11 - Davao del Norte, Davao del Sur, Davao Oriental, Davao City (Davao Gulf) Region 13 (CARAGA) - Surigao del Sur (Lanuza Bay)
2	Scaling up the Implementation of the Sustainable Development Strategy for the Seas of East Asia (SDS-SEA)	GEF/UNDP		1,000.00		1,000.00	Sep. 2014-Aug. 2019 (Ext. December 2020)	CAR - Abulug River Region 3 - Bataan, Pampanga & Bulacan; Region 4A - Batangas & Cavite; Region 4B - Occidental Mindoro, Mindoro Oriental, Marinduque & Romblon; Region 6 - Iloilo & Guimaras; Region 10 - Misamis Oriental Region 13 - Siargao

ENVIRONMENT				10,943.85	35,868.71	46,812.56		
1	Demonstration of BAT and	GEF/UNIDO		1,512.00		1,512.00	April 2015-March 2020	Nationwide with Demonstration
	BEP in open burning activities in response to the Stockholm Convention on POPs						(Ext. Dec. 2021)	<p>Site in the Philippines: Region 12 - General Santos City, South Cotabato</p> <p>Regional Budget of US\$ 7,560,000 covers five (5) countries: Cambodia, Lao PDR, Mongolia, Philippines and Vietnam</p>
2	Implementation of PCB Management Programs for Electric Cooperatives (ECs) and Safe e-waste Management	GEF/UNIDO		6,200.00	35,868.71	42,068.71	Jan. 2017-Dec 2021	<p>NCR - Quezon City, Tondo. Caloocan City (Camarin & Bagong Silang)</p> <p>Region 1 - Ilocos Sur, Pangasinan, La Union;</p> <p>Region 3 - Bataan, Pampanga, Tarlac, Nueva Ecija;</p> <p>Region 4A - Cavite;</p> <p>Region 5 - Camarines Sur, Camarines Norte, Albay, Masbate, Sorsogon, Catanduanes;</p> <p>Region 7 - Cebu;</p> <p>Region 8 - Samar, Leyte;</p> <p>Region 13 - Surigao del Norte</p>
3	Project for Capacity Development on Improving Solid Waste Management through Advanced/ Innovative Technologies (TCP-SWM)	JICA		3,000.00		3,000.00	Mar. 2019 - Apr. 2022	<p>NCR - Quezon City</p> <p>Region 7 - Cebu City;</p> <p>Region 11 - Davao City</p>
4	Ozone Depleting Substances – Extension of Institutional Strengthening Project (Phase XII)	UNEP		231.85		231.85	Jan. 2020 - Dec. 2021	Nationwide

FORESTRY			166,178.86	3,641.00	47,841.00	217,660.86		
1	Forestland Management Project (FMP)	JICA	100,630.00		29,830.00	130,460.00	March 2012 - March 2022 (Ext. July 3, 2023)	Region 2 - Nueva Viscaya & Quirino and CAR - Ifugao (Upper Magat and Cagayan River Basin); Region 3 - Nueva Ecija (Upper Pampanga River Basin); Region 6 - Iloilo (Jalaur River Basin)
2	Integrated Natural Resources and Environmental Management Project (INREMP)	ADB IFAD GEF	57,050.45 8,498.42	2,500.00	18,011.00	86,059.86	August 2013- June 2020 (Ext. Dec. 2021)	CAR - Ifugao, Benguet, Kalinga, Apayao & Mountain Province (Chico River Basin); Region 7 -Bohol (Wahig-Inabanga River Basin);Region 10 - Bukidnon & Misamis Oriental (Bukidnon Upper River Basins); ARMM - Lanao del Sur (Lake Lanao Basin)
3	Facilitating the participatory planning of community-based forest management using geographic information system and remote sensing technologies in forest resources management in the Philippines, Indonesia and Thailand	Association of Southeast Nation- Republic of Korea (ASEAN-ROK) Forest Cooperation (AFoCo)		591.00		591.00	Dec. 2014 - Dec. 2019 (Ext. June 2020)	Region 1 - Pangasinan (San Manuel); Region 5 - Albay (Guinobatan); Region 11 - Davao del Sur (Marilog, Davao City)
4	Forest Law Enforcement, Government and Trade (FLEGT) Programme	EU/UN-FAO		550.00		550.00	Feb. 2017- Dec. 2020 (Ext. Dec. 2021)	Nationwide

CLIMATE CHANGE			0.00	3,477.06	25,509.50	28,986.56		
1	Ambitious City Promises	BMUB		1,477.06		1,477.06	2017-June 2020 (Ext. June 2021)	NCR - Pasig City (model city), Marikina City and Parañaque City (satellites)
2	Global Partnership for improving the food cold chain in the Philippines	GEF/UNIDO Co-Financing		2,000.00	25,509.50	27,509.50	May 2019-April 2022	NCR
MINES				5,850.00		5,850.00		
1	GEF Global Opportunities for Long-term Development (GOLD) Mongolia-Philippines: Contribution Towards the Elimination of Mercury in the Artisanal and Small Scale Gold Mining (ASGM) Sector: From Miners to Refiners	GEF/UNEP/UNIDO		5,850.00		5,850.00	Aug. 2018 - January 2024	To be determine Regional Cost: US\$ 11,700,000 for two (2) countries (Mongolia and Philippines)

Some of the significant accomplishments of the Foreign-Assisted and Special Projects for Priority Programs of the Department:

On Solid Waste Management

- ✓ Demonstration of Best Available Technologies (BAT) and Best Environmental Practices (BEP)
 - Submission of EMB Regional office project proposal for funding on the enhancement of the plastic recycling facility to complement the existing centralized MRF in General Santos City.
 - Ongoing review by the PMO and UNIDO of the draft Project Sustainability Plan submitted.
 - Completed the post-Evaluation of Component 4 (Awareness-raising) conducted by AECOM which is highly recommended for replication to reach more stakeholders and become more aware on the effects of open burning, including available BATs and BEPs in the country.

- ✓ Capacity Development on Improving Solid Waste Management through Advanced/Innovative Technologies (TCP-WtE)
 - Presented by the JICA Experts Team (JET) with the sub-group and inter-agency Technical Working Group (ITWG), the draft technical standards for WtE Ash Treatment in comparison with WtE standards in Japan, EU and Philippines.
- ✓ PCB & Safe E-Waste Management (PCB-WEEE)
 - Updated the manual of procedures for testing of bromine using XRF spectrometer.
 - Prepared and endorsed to EMB and Brgy. Bagong Silang, Caloocan City the Report on e-waste management which includes incentive mechanism to improve e-waste collection.
 - Prepared and endorsed to EMB and Brgy. Bagong Silang, Caloocan City the result of cost-benefit study on the operation of the Treatment, Storage and Disposal (TSD) facility in Bagong Silang.
 - Mobilized informal e-waste sector to deliver 13,721 units of CRTs to the TSD facility and to IRI from February to December 2020.
 - Prepared Good Laboratory Practices Manual for NRDC.

On Enhanced National Greening Program

In support to the rehabilitation of the 1.2 million hectares targeted to be accomplished by 2020 under the Duterte Administration in accordance with the updated 2016–2028 Master Plan for Forestry Development, through the combined efforts of Forestland Management Project (FMP) (71,105 has) and Integrated Natural Resources and Environmental Management Project (INREMP) (43,955 has), the two loan projects have rehabilitated cumulatively 115,060 hectares of unproductive, denuded and degraded forestlands within seven major river basins, i.e., Upper Chico in CAR, Upper Magat and Cagayan Valley in Region 2, Upper Pampanga in Region 3, Jalaur in Region 6, Wahig-Inabanga in Region 7, Upper Bukidnon in Region 10, and Lake Lanao in BARMM. This represents 99.74% of the combined 115,359 hectares total targets of both FMP (71,300 has) and INREMP (44,059 has). For CY 2020, the two projects have rehabilitated about 23,856 hectares or 20.73% of the total target of denuded and degraded forestlands in the same seven river basins (about 1,774 has for FMP and 22,082 has for INREMP).



Figure 13.4 Drone shot of one of the reforestation contracts of Vista Hills Kalongkongan & Kakilingan Upland Farmers Association in Vista Hills, Bayombong, Nueva Vizcaya under the Forestland Management Project (FMP)



Figure 13.5 Forest restoration initiative through reforestation modality under the INREMP

Provision of opportunities for communities

FMP provided a start-up capital amounting to PhP100,000.00 for each of the 149 partner community organizations (POs) to develop and implement non-forest livelihood enterprises. PO household members gained additional income lessening pressure on the forest resources from over extraction for subsistence.

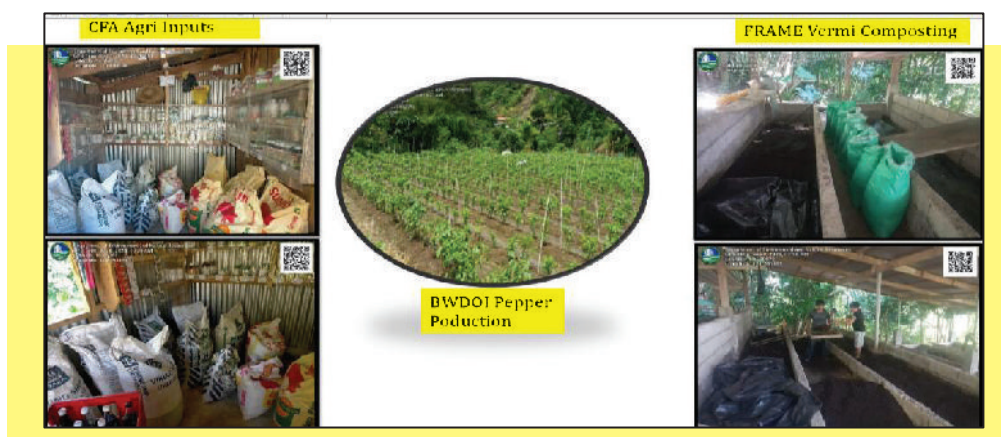


Figure 13.6 Samples of Community-based Enterprises implemented and managed by the partner community organizations under the Forestland Management Project in the province of Ifugao

INREMP provided 156 livelihood enhancement support (LES) packages or 71.56% of the total targeted 218 LES packages. These 156 LES packages consisted of (i) 23 concrete sun dryers (ii) 5 water supply facilities; (iii) 23 small storage facilities (warehouse); (iv) 81 agricultural machinery and milling facilities; and (v) 24 food processing facilities. Out of these, 107 are already operational.



Figure 13.7 Warehouse of Panginam O Masa Farmers Producers Cooperative of Madamba, Lanao del Sur (leftmost) and food processing equipment for Cacao Product of PO BUFA of Buyot, Don Carlos, Bukidnon (midleft to rightmost)



Figure 13.8 Rice Mill Facility of Bagacay Water Users Association in Bohol province (left), solar drying facility of Malitbog Active tree Farmers Association in Bohol province (middle), and vegetable noodle processing of Bumawe Rural Improvement Club, Inc. in Sadanga, Mt. Province (right)

On Intensified Forest Protection and Anti-Illegal Logging

In order to mitigate the occurrence of forest fires, a total of 2,500 hectares of forest fire-prone areas were identified and mapped and 6,513.69 hectares of firelines were established.

Further, the Regions and their concerned offices have done necessary coordination with their partner people's organization for the rehabilitation of the damaged areas. The forest fire prevention and law enforcement activities were strengthened thru activation of forest fire control brigade and coordination with the City/Municipal DRRM Office; strengthened partnership with the Bureau of Fire Protection (BFP), and conducted orientation/briefing on forest fire control, suppression and some prevention-related activities.

Through continuous forest patrol via Lawin system and neutralization of illegal logging hotspots, INREMP PO partners continuously conducted forest protection and monitoring using the Lawin system covering the target of 80,152 hectares.



Figure 13.9 Forest patrolling activities of PO Kavingin-an Livelihood Association of Bontoc, Mt. Province using the Lawin System

On Enhanced Biodiversity Conservation

The Protect Wildlife Project (PWP), through the collaboration of DENR–Biodiversity Management Bureau and United States Agency for International Development (USAID), developed a mobile application to help forest rangers and law enforcement partners in the fight against wildlife trafficking. This application named WildAlert is a system made up of mobile interface, a species library, and a report management platform that will identify wildlife species.

It has completed training of trainers (TOT) of 1,768 government personnel (i.e., BMB, DENR regional offices and PCSD) via online on the use and management of the WildAlert application for wildlife identification and wildlife crime reporting.



Figure 13.10 Pilot-testing of the mobile application WildAlert participated in by Philippine National Police (PNP), Philippine Coast Guard (PCG) and the National Bureau of investigation (NBI) held last February 19-20, 2020.

- ✓ Combating Organized Environmental Crime: Illegal Wildlife Trade (IWT)
 - Facilitated the drafting of Joint Department Resolutions against wildlife crime and presented during National Law Enforcement Coordinating Committee, Sub-Committee on Environment and Natural Resources (NALECC-SCENR).
 - Facilitated the preparation of the draft DAO to adopt Wildlife Law Enforcement plan which was approved by DENR Policy Technical Working Group and endorsed to the Office of the Undersecretary for Legal, Administration, Human Resources and Legislative Affairs for vetting.
 - Facilitated the drafting of Senate Bill on the Revised Wildlife Resources Conservation and Protection Act of 2020 and endorsed to the Offices of Senators Juan Miguel Zubiri and Cynthia Villar for sponsorship.
- ✓ Biodiversity Finance Initiative (BIOFIN) Phase 2
 - Facilitated the BMB's signature on the MOA Public-Private Partnership (PPP) Center for the development of PPP policy for PAs.
 - Developed the draft Technical Bulletin for the preparation of Local Biodiversity Strategy and Action Plan (BSAP) and biodiversity finance plans.
 - Finalized the MOA between BMB and DBP for the conduct of scoping study on impact investment.

On Scaling Up of Coastal and Marine Ecosystem Management Program

- ✓ SMART-SEAS
 - Completed the data analysis from field assessment on the status of fish biomass in project sites.
 - Conducted the revision of the JMC on the establishment and management of MPAN in consideration of the comments of the DENR PTWG.
- ✓ SDS-SEA
 - Facilitated the conduct of virtual National Forum for ICM implementation in the Philippines on December 4, 2020.
 - Provided support to the implementation of the Sasmuan Bangkang Malapad Critical Habitat and Ecotourism Area management Plan and the completion of the ecological and socio-economic assessment of the Sasmuan Pampanga Coastal Wetlands.
 - Facilitated the participation of Bataan, Batangas, Cavite, and Guimaras Provincial LGU representatives in the virtual Local Governments for Sustainable Coastal Development Forum.
 - Completed the coral reef assessment and monitoring of two MPAs in Guimaras Province and biophysical assessment of 25 marine/mangrove protected areas in Batangas Province.
 - Completed the biophysical assessment of 25 marine/mangrove protected areas in Batangas Province.

On Forest Land Management Project

- Completed the study on valuation of ecosystem services for 24 sub-watersheds within the 3 major river basins covering the provinces of Ifugao, Quirino, Nueva Vizcaya, Nueva Ecija, and Iloilo. This identified opportunities for income-generating ventures for the communities and LGUs, i.e., eco-tourism, among others.
- Constructed 12.52 km. of FMRs bringing the total to 16.23 km. (17.72% of the 91.6 kms. total target); 45 kms. are still under construction.
- Completed 1 unit RC bridge (9% of 11 units total target), 2 units under construction; constructed 1 unit hanging bridge, 7 units under construction.
- Established 2.86 km irrigation pipelines (3% of 109 kms. total target) where 8.5 kms. are still undergoing installation.

Figure 13.11 shows the construction of Sitio Lacong-Centro Babadi Access Road in Babadi, Kayapa, Nueva Vizcaya (top left); turnover ceremony of Carolotan Access Road with RCDG bridge and RCBC structure in Carolotan, Dupax del Sur, Nueva Vizcaya (top right); construction of Buyasyas Irrigation Pipeline System in Brgy Buyasyas, Kayapa, Nueva Vizcaya (bottom left); and construction of Abuang Hanging bridge in Banila, Dupax del Sur, Nueva Vizcaya (bottom right).



Figure 13.11 Construction of access roads, bridges and irrigation pipeline system

On Integrated Natural Resources and Environmental Management Project

- Constructed 42.01 km of rural access road or 34% of the 123 km total project target; ongoing construction of 70.26km or 57% of the total target; and for contract awarding of about 4.13 km or 3% of the total target.

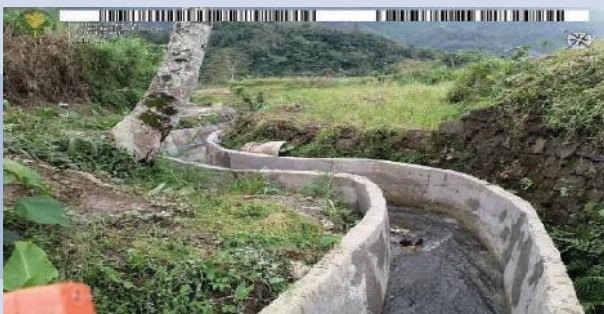


Figure 13.12 Rehabilitation of Mallango-Sumadel-Belong-Man-ubal FMR at Tinglayan, Kalinga (left) and improvement of Balitian, Bontoc-Ili-Dalican FMR at Bontoc, Mountain Province (right)



- Constructed 1,100 linear meters (lms) of foot path or 11% of the 10,000 lms total project targets; ongoing construction of about 8,900 lms or 89%.

Figure 13.13 Gaang footpath at Tanudan, Kalinga



- Irrigated about 98.6 has. or 22% of the total area target to be irrigated.

Figure 13.14 Constructed Pongod Bawbao Bacog Community Irrigation System at Tanudan, Kalinga



- Constructed 1 unit of trading center.

Figure 13.15 Constructed Bauko Trading Center at Bauko, Mountain Province

(Source: FASPS)