



**PROVINCIAL GOVERNMENT OF ISABELA  
ENVIRONMENT AND NATURAL RESOURCES OFFICE**



*Sitio Lanai, Bicobian, Divilacan, Isabela*

# **ANNUAL ACCOMPLISHMENT REPORT 2024**



# **2024 ANNUAL ACCOMPLISHMENT REPORT**

# Prologue

The environment and Natural Resources Office (ENRO) takes pride in presenting the Annual Accomplishment Report for CY 2024, a testament to the unwavering commitment of the Provincial Government of Isabela to safeguarding and restoring the province's abundant natural resources and life support systems.

Under the leadership of Governor Hon. Rodolfo T. Albano III, Vice Governor Hon. Faustino G. Dy III, and with the steadfast support of Provincial Administrator Atty. Noel Manuel R. Lopez, Environment and Natural Resources Officer For. Geronimo P. Cabaccan, Jr., and the entire ENR Office team, the province has upheld its shared responsibility with the national government. In alignment with the Local Government Code, a strategic framework has been established, prioritizing programs, projects, and activities (PPAs) that emphasize ecological management, sustainability, and environmental integrity.

Guided by the core principles of the current administration, these initiatives reflect a balanced approach to development and environmental stewardship. Community-based programs, resource conservation efforts, capacity-building activities, and the enforcement of environmental laws are implemented to address critical concerns such as climate change, biodiversity loss, and waste management.

As stewards of our environment, the Provincial Government of Isabela remains dedicated to fostering a sustainable and healthy future for all. This report not only highlights our accomplishments but also serves as a call to action, inspiring continued collaboration for a greener, healthier, and more resilient province for generations to come.

**TABLE OF CONTENTS**

<b>Title</b>	<b>Page No.</b>
<b>Forest Management &amp; Conservation Division</b>	
I. Nursery Operations and Maintenance	- 1
II. Forest Protection	
a. Manning of Checkpoints	- 6
b. Apprehension/Confiscation of Illegally Gathered/Transported Forest Products	- 6
c. Donation and Utilization of Forest Products	- 9
III. Climate Change Mitigation/Adaptation & DRRM Measures thru Forest Landscape Restoration and Coastal Resource Management Program	
a. Watershed Rehabilitation Project	- 12
b. Riparian Rehabilitation and Development Project	- 15
c. Agroforestry, Urban Greening & Carbon Sink Development Project	- 18
d. Mangrove Forest Rehabilitation Project	- 23
e. Beach Forest Rehabilitation Project	- 24
f. Monitoring of Implemented Projects and Distributed Seedlings	- 26
g. Inspection of Completed Dredging Areas Proposed for Bamboo Planting	- 28
IV. Biodiversity Conservation and Wildlife Protection	
a. Urban Biodiversity Assessment	- 29
b. Wildlife Law Enforcement Trainings for Wildlife Enforcement Officers (WEOs)	- 34
c. Biodiversity Monitoring, Regular Surveillance, and Foot Patrolling	- 36
d. Inland Wetlands	- 37
e. Maintenance of Isabela Provincial Eco-Park	- 38
<b>Environmental Management Division</b>	
I. Search for the Most Environment-Friendly Barangay	- 45
II. Monitoring of LGU Ten-Year Ecological Solid Waste Management Plan	- 49
III. Material Recovery Facility (MRF) Operation Under the Provincial Ecology Center	
a. Soil Enhancer Production through Vermicomposting	- 51
b. Production of Green Charcoal	- 53
c. Residual Containment Area (RCA) Operation located at the back of the ENR Office	- 53
IV. Monitoring of Waste Disposal Facility	- 55
V. Healthcare Waste Management	- 87
VI. Ecosystems Management	
a. Clean-Up Drives	- 91
b. Anti-Smoke Belching Campaign	- 95
c. Ambient Water Quality Monitoring & Management	- 98
VII. Monitoring of ESWM-Related PGI Executive Orders/Ordinance	- 101
VIII. Provincial Solid Waste Management Board	- 101
IX. Provision of Technical Assistance	- 103
<b>Mineral Resources Management Division</b>	
I. Processing and Issuance of Permits	
a. Processing of Permit Applications	- 104
b. Site Verification and Inspection of Applied Quarry Area	- 105
c. Provincial Mining Regulatory Board (PMRB) Deliberation	- 116

II.	Accreditation of Haulers/Dealers/Traders and Retailers	-	117
III.	Field Monitoring of Quarry Areas		
	a. Regular Field Inspection and Monitoring	-	130
	b. Monitoring of Extraction Activities	-	133
	c. Investigation and Settlement of Quarry and Mining Related Complaints	-	133
	d. Other Related Activities	-	144
<b>Activities Undertaken in Support of Ilagan-Divilacan Road Rehabilitation &amp; Improvement Project (IDDRIP)</b>			
I.	Maintenance and Protection of the Established 1,200-hectare Reforestation Areas	-	146
II.	Other Activities Along IDR	-	150
<b>Establishment of 300-hectare Reforestation Project Awarded by DENR to the Provincial Government</b>			
<b>Intervening and Other Related Activities</b>			
I.	Activities Undertaken Under the Philippines Rural Development Project (PRDP) – Social and Development Safeguards (SES)	-	154
II.	Risk Resiliency Program Thru Cash-For-Work/Training (RRP-CFW-T)	-	154
III.	Isabela League of Local Environment and Natural Resources Officers (ILLENRO) Regular Business Meeting	-	155
IV.	Oyster and Green Mussel Project	-	156
V.	Capacity-Building Training of Multipartite Monitoring Team (MMT) for the National Irrigation Administration-Tumauini River Multipurpose Project (NIA-TRMP)	-	158
VI.	Joint Benchmarking and Study Tour on Effective Solid Waste Management	-	159
VII.	Joint Conduction of Water Testing of Deep Wells	-	160
VIII.	Two-Solid Waste Management (SWM) Summit	-	160
IX.	Water Analysis Techniques (WAT101) Training	-	161
X.	Public Hearing on the Proposed Classification of Bintacan River	-	162
XI.	Gender and Development (GAD) Activity: 2-day Skills Training on Waste to Product	-	162
XII.	Earth Day Celebration	-	163
XIII.	Coastal Landscape Restoration cum Month of the Ocean Celebration	-	163
XIV.	Greenhouse Gas (GHG) Inventory Workshop for Local Persons	-	164
XV.	Global Handwashing Day Discussion	-	165
XVI.	Gender and Development (GAD) Activity: Intensive Skills Training on Rattan Basket Weaving	-	165
<b>Attendance and Participation to Meetings, Conference, Conventions, Trainings and other Education Programs</b>			
<b>The ENR Personnel</b>			
		-	169

**LISTS OF TABLES**

**Title**

<b>Table 1.</b>	Seedlings Inventory
<b>Table 2.</b>	List of Confiscated Forest Products
<b>Table 3.</b>	Watershed Rehabilitation Projects
<b>Table 4.</b>	Riparian Rehabilitation and Development Projects
<b>Table 5.</b>	Agroforestry, Urban Greening, and Carbon Sink Development Projects
<b>Table 6.</b>	Mangrove Forest Rehabilitation Projects
<b>Table 7.</b>	Beach Forest Rehabilitation Projects
<b>Table 8.</b>	Field Data Sheet for Ecosystem Lever Assessment (Centro, City of Ilagan)
<b>Table 9.</b>	Fauna Species (Centro, City of Ilagan)
<b>Table 10.</b>	Field Data Sheet for Ecosystem Lever Assessment (Alibagu, City of Ilagan)
<b>Table 11.</b>	Fauna Species (Alibagu, City of Ilagan)
<b>Table 12.</b>	Inventory of Inland Wetlands
<b>Table 13.</b>	List of Identified Flora Species within the Isabela Provincial Eco-Park
<b>Table 14.</b>	List of Identified Bird Species within the Isabela Provincial Eco-Park
<b>Table 15.</b>	List of Search for the Most Environment-Friendly Barangays Evaluation Team Members
<b>Table 16.</b>	List of Barangay Participants in the Search for the Most Environment-Friendly Barangays
<b>Table 17.</b>	List of Winners in the Search for the Most Environment-Friendly Barangays
<b>Table 18.</b>	Status of Provincial/Municipal/City ESWM Plans in the Province of Isabela
<b>Table 19.</b>	Status on the Sanitary Landfill Facility (SLF) of LGUs
<b>Table 20.</b>	2024 Recorded Solid Waste Data from the Different Offices of the Provincial Government of Isabela and Other Establishments within the Capitol Compound
<b>Table 21.</b>	Waste Collected During the 2024 Bambanti Festival
<b>Table 22.</b>	Conducted Anti-Smoke Belching Campaigns
<b>Table 23.</b>	Abuan River Data Baseline
<b>Table 24.</b>	Water Checker Result of Abuan River
<b>Table 25.</b>	Environmental Laboratory Analysis Result of Abuan River
<b>Table 26.</b>	List of Received Commercial Sand and Gravel Permit Applications
<b>Table 27.</b>	Specific Findings of Applied Quarry Areas
<b>Table 28.</b>	List of Commercial Sand and Gravel Permit Applications deliberated and endorsed by PMRB
<b>Table 29.</b>	Summary of Issued Accreditation Permit for CY 2024
<b>Table 30.</b>	List of Accredited Haulers/Dealers/Traders & Retailers for CY 2024
<b>Table 31.</b>	Monthly Extraction of Sand and Gravel Aggregate Based on the Submitted Monitoring Reports
<b>Table 32.</b>	Results of the Inspection and Monitoring on the Alleged Quarrying Activity at Brgy. San Miguel, Ramon, Isabela
<b>Table 33.</b>	Findings and Observations of the Assessment of Quarry Operations in the Municipality of Cabatuan, Isabela
<b>Table 34.</b>	Detailed Accomplishment Report for RRP Cash for Work



# FOREST MANAGEMENT & CONSERVATION DIVISION

**FOREST MANAGEMENT AND CONSERVATION DIVISION**

**I. Nursery Operations & Maintenance**

In 2024, a total of **75,445** assorted seedlings were maintained in the Provincial and Clonal Nurseries. Of these, the **30,407 assorted seedlings** such as forest and fruit-bearing trees, bamboo propagules, palm, and coconut, were produced, procured and taken cared. In addition, a total of **43,872 assorted seedlings** were also given to the Three Hundred Twenty-Four (**324**) requesting constituents including schools, municipal/barangay LGUs, NGAs, private individual/small farmers, other organizations, and government agencies in support of greening activities.



A mortality rate of **5.1%** equivalent to **3,848** seedlings was recorded and documented as a result of the El Niño phenomenon (April to May 2024) and unforeseen situations. Detailed seedling inventory are provided below.

**Table 1. Seedling Inventory**

Particulars	Previous Stock Balance (2023)	Procured and Produced	Total	Disposed	Mortality	Remaining Stock Balance (Dec. 31, 2024)
Forest tree seedlings	8,483	21,947	30,430	18,387	1,554	10,489
Fruit tree seedlings	11,934	18,996	30,930	19,566	1,901	9,463
Bamboo Propagules	-	12,983	12,983	5,448	314	7,221
Palm	502	-	502	421	79	2
Coconut		600	600	50	-	550
<b>Grand Total</b>	<b>35,188</b>	<b>30,407</b>	<b>75,445</b>	<b>43,872</b>	<b>3,848</b>	<b>27,725</b>



The nursery operation and maintenance activities of the two (2) nurseries are being conducted by the Six (6) laborers hired through Job Order contract. The activities are potting, sorting and arrangement of seedlings for hardening, transplanting, wildlings collection, seed collection and propagation, grass cutting, brushing, ring weeding, watering, disposal of rotten poly bags, clonal activities and others.





Potting and transplanting of seedlings to potted soil media



*Wildlings and seeds collection*



*Clonal activities*



*Loading of disposal and unloading of delivered seedlings and organic fertilizer.*



*Conduct of regular activities at the Provincial and Clonal Nurseries such as watering, sorting/arrangement of seedlings, weeding and seedling inventory.*



*Maintenance activities at Provincial Clonal Nurseries such as cleaning, brushing, grass cutting, removal of rotten poly bags.*

**II. Forest Protection**

**A. Manning of checkpoints**

The Isabela Environment Protection – Task Force (ISEP-TF) Operatives persistently manned and maintained **four (4) checkpoints** 24/7. With a focus on forest and environmental protection, the **23 Operatives** conducted surveillance foot, motorcycle and mobile patrolling, check and verify all



forest products passing by in the checkpoint with legal documents for all shipment through the approval of the DENR and responses to tipster (SMS) reports regarding violations of PD 705. Some personnel assigned to assist in the monitoring of quarry outlets province-wide. These initiatives were to identify unlawful collection and transportation of mineral resources as well as forest products.

**B. Apprehension/Confiscation of Illegally Gathered/Transported Forest Products**

For the year 2024, forestry law enforcement activities resulted to the apprehension of One Thousand Fifteen (**1,015**) pieces of lumbers, round logs and flitches of different wood species with a total volume of Twenty-Five Thousand Two Hundred Fourteen and 21/100 (**25,214.21**) board feet. Apprehended forest products were under the custody of PGI-ENRO. List of confiscated forest products shown in the table below.

**Table 2. List of Confiscated Forest Products**

Particulars	No. of Pcs.	Volume (bt.ft.)
Narra Flitches	16	746
Narra Lumbers	7	93
Gmelina Round Logs	1	35
Red Lauan Lumbers	311	8115.89
White Lauan Lumbers	49	692
Red and White Lauan Lumbers	160	7075.33
Molave Flitches	11	509.67
Guisat Flitches	9	261.67
Tindalo Flitches	4	264
Red Lauan Flitches	3	167
Tanguile Flitches	1	70
Tanguile Lumbers	19	420.00
CHW Lumbers	395	5306.29
CHW Round Logs	5	553.22
Supa Flitches	8	734
Dita Lumbers	16	170.67
<b>TOTAL</b>	<b>1,015</b>	<b>25,214.21</b>



*Checking and verification of cargo shipment loaded of forest products and conduct regular motorcycle, mobile foot patrolling and surveillance province wide.*



*Apprehension of mostly abandoned illegally-harvested forest products at Namnama, City of Ilagan, Isabela.*



Apprehension of mostly abandoned illegally-harvested forest products at Batong labang, City of Ilagan, Isabela.



Apprehension of mostly abandoned illegally-harvested forest products at Bintacan, City of Ilagan, Isabela.

**C. Donation and Utilization of Forest Products**

A total of Three Hundred Seven **(307) pieces of Common Hard Wood Lumber**, with a totaling of Five Thousand Five Hundred Twenty-Seven and 33/100 **(5,527.33) board feet** were donated and used in response to requests from various qualified recipients that the Provincial Government had authorized in order to support its constituent’s projects.

**Other Activities**

Additionally, the ISEP-TF Operatives actively participated in the execution of the ENR office’s numerous programs, projects and activities as follows.

- Seedling production of respective checkpoints, a total of **24,945 forest trees seedlings** produced;
- Nursery maintenance of ENRO nursery;
- Wildlings collection;
- Clean-up drives;
- Tree planting activities;
- Monitoring of IDRRIP reforestation areas and others;
- Sorting and piling of the confiscated forest products; and
- Biodiversity and Wildlife Monitoring Activities as deputized Wildlife Enforcement Officers (WEOs).



*Clean-up drive activities*





Tree planting activities and monitoring of IDRRIP reforestation areas and others



Seedling production of respective checkpoints

**III. Climate Change Mitigation/Adaptation & DRRM Measures thru Forest Landscape Restoration and Coastal Resource Management Program**

Blessed with abundant natural resources, the province remains steadfast in implementing various forest and environmental programs. Climate change mitigation/adaptation and disaster risk reduction management (DRRM) measures have been mainstreamed and sustained to protect Isabeleños from the adverse effects of changing climate.

In coordination and partnership with city, municipal, and barangay counterparts, national agencies, and other stakeholders, the following projects were implemented under the Climate Change Mitigation/Adaptation & Disaster Risk Reduction Management program. These include watershed rehabilitation through reforestation, riparian development, beach forest and mangrove rehabilitation, agroforestry, urban greening, and carbon sink development.

**A. Watershed Rehabilitation Project**

Watershed rehabilitation through reforestation and enrichment planting remains a major focus of the province’s climate change mitigation/adaptation and DRRM measures. These activities aim to maintain watersheds for water capture, storage, and release to ensure the prevention of water quality.

In 2024, the project was implemented in partnership with the Local Government Units (LGUs) of Quirino, Tumauni, Delfin Albano, Naguilian and San Mariano, Isabela as well as the National Irrigation Administration – Isabela Irrigation Management Office (NIA-IMO). The Provincial Government provided seedlings and fertilizers, while the Municipal LGUs, NIA-IMO, and barangays mobilized social resources for site preparation, planting, maintenance, and protection. The Provincial Government sourced its contribution of seedlings and fertilizers from the Local Disaster Risk Reduction and Management (LDRRM) Fund. To date, a total of 199.50 hectares of watershed rehabilitation projects have been completed since the program began in 2015.

The following watershed projects were implemented in 2024:

**Table 3. Watershed Rehabilitation Projects**

No.	Project Location	Area (has.)	Provision of Assistance
1.	Brgy. Villa Miguel, Quirino, Isabela	2.0	2,224 seedlings and 20 sacks of organic fertilizer
2.	Brgy. Namnama, Tumauni, Isabela	4.0	4,428 seedlings and 40 sacks of organic fertilizer
3.	Brgy. Carmencita, Delfin Albano, Isabela	5.0	5,560 seedlings and 50 sacks of organic fertilizer
4.	Brgys. Minallo, Aguinaldo and Cabaruan, Naguilian, Isabela	2.0	2,224 seedlings and 20 sacks of organic fertilizer
5.	Brgy. Casala, San Mariano, Isabela	2.0	2,224 seedlings and 20 sacks of organic fertilizer
6.	Brgys. Annanuman and Simanu, San Pablo, Isabela	3.0	3,336 seedlings
<b>T O T A L</b>		<b>18.0</b>	

➤ **Rehabilitation of 2 hectares watershed at Barangay Villa Miguel, Quirino, Isabela**

- In coordination with LGU Quirino through the Municipal ENRO, two hectares were identified for rehabilitation.
- Site preparation and planting activities were conducted by MLGU personnel and DOLE-TUPAD beneficiaries from September to October 2024.
- A total of 2,224 assorted forest and fruit-tree seedlings were planted. The MLGUs is conducting maintenance and protection activities to ensure a high survival rate.



➤ **Rehabilitation of 4 hectares Watershed at Barangay Namnama, Tumauini, Isabela**

- In partnership with LGU Tumauini, four hectares were identified for rehabilitation.
- Planting activities were carried out by DOLE-TUPAD beneficiaries in November 2024, supervised by MLGU personnel.
- A total of 4,428 assorted forest and fruit-tree seedlings were planted, with on-going maintenance by the MLGU.



➤ **Rehabilitation of 5 hectares Watershed at Barangay Carmencita, Delfin Albano, Isabela**

- The MLGU Delfin Albano, a regular partner, collaborated on a five-hectare rehabilitation project in response to a forest fire incident in previous years.
- Planting activities were conducted by MLGU personnel, DOLE-TUPAD, and DSWD-RRP Cash for Work beneficiaries from September to October 2024.

- A total of 5,560 assorted forest and fruit-tree seedlings were planted.



➤ **Rehabilitation of 2 hectares Watershed at Barangays Minallo, Aginaldo and Cabaruan, Naguilian, Isabela**

- A second consecutive year of partnership with LGU Naguilian resulted in the rehabilitation of two hectares.
- Planting activities were conducted in November 2024 by MLGU personnel and barangay stakeholders.
- A total of 2,224 assorted forest and fruit-tree seedlings were planted.



➤ **Rehabilitation of 3 hectares Watershed at Barangay Casala, San Mariano, Isabela**

- LGU San Mariano through its Municipal Municipal ENRO, partnered with the province to rehabilitate its watershed, the provincial government partnered with the MLGU to rehabilitate two hectares.
- Planting activities were conducted from August to September 2024 by MLGU personnel, DOLE-TUPAD, and DSWD-RRP beneficiaries.
- A total of 2,224 assorted forest and fruit-tree seedlings were planted.



➤ **Rehabilitation of 3 hectares Watershed at Barangays Annanuman and Simanu, San Pablo, Isabela**

- A three-hectare rehabilitation project was implemented in partnership with DOLE-TUPAD and Barangay LGUs.
- Planting activities took place from August to November 2024, with a total of 3,326 seedlings planted.



**B. Riparian Rehabilitation and Development Project**

Recognizing the importance of restoring riparian buffers and mitigating flooding, the Provincial Government through its ENR Office initiated the Riparian Rehabilitation and Development Project in 2015. This has since become a priority project under CCM/A and DRRM Measures.

Seedlings and fertilizers are provided by the Provincial Government, while partner stakeholders contributed to site preparation, planting, maintenance, and protection activities. To date, a total of 50.05 hectares of riparian rehabilitation projects have been completed since the program began in 2015. The following riparian rehabilitation and development projects were implemented in 2024:

**Table 4.** *Riparian Rehabilitation and Development Projects*

No.	Project Location	Length (In.km.)	Assistances
1.	Creeks and river vicinities, Reina Mercedes, Isabela	1.5	1,500 bamboo propagules and 5 sacks of organic fertilizer
2.	Creeks and river vicinities, Cauayan City, Isabela	0.5	500 bamboo propagules
3.	Alibagu creek, City of Ilagan, Isabela	0.7	700 bamboo propagules
4.	Brgy. Cabisera 25, City of Ilagan, Isabela	0.4	350 bamboo propagules
5.	Brgy. Rang-ayan, City of Ilagan, Isabela	7.0	1,500 bamboo propagules (7x7 spacing) and 5 sacks organic fertilizer

6.	Brgy. Cabisera 7, City of Ilagan, Isabela	4.0	2,000 bamboo propagules (4x4 spacing)
7.	Creeks and river vicinities, Quirino, Isabela	1.0	1,000 bamboo propagules
8.	Brgy. Pilitan, Tumauni, Isabela	1.0	1,000 bamboo propagules and 5 sacks organic fertilizer
<b>T O T A L</b>		<b>16.1</b>	

➤ **1.5 kilometers along creeks and rivers at Reina Mercedes, Isabela**

- In collaboration with the Local Youth Development Office and MENR Office of Reina Mercedes, bamboo propagules were planted along 1.5 kilometers of riparian areas.
- A total of 1,500 bamboo propagules were planted from August to October 2024.



➤ **0.5 kilometers along creeks and rivers at Cauayan City, Isabela**

- The Local Youth Development office of Cauayan City planted 500 bamboo propagules in August 2024.
- The project covered 500 linear meters of riparian areas.



➤ **12.1 kilometers along creeks and rivers at City of Ilagan, Isabela**

- Collaborating with Barangay LGUs, LYDO and ISELCO II, a 12.1-kilometer stretch of riparian areas was rehabilitated in various barangays of the City of Ilagan.
- A total of 4,550 bamboo propagules were planted from August to October 2024.



➤ **1.0 kilometers along creeks and rivers at Quirino, Isabela**

- In partnership with Municipal Local Government Unit of Quirino, 1,000 bamboo propagules were planted in September 2024.



➤ **1.0 kilometers along creeks and rivers at Tumauni, Isabela**

- Partnering with Municipal Local Government Unit of Tumauni, 1,000 bamboo propagules were planted at Barangay Pilitan in October 2024.





**C. Agroforestry, Urban Greening & Carbon Sink Development Project**

The Provincial Government actively supports agroforestry, urban greening, and carbon sink projects to address resource depletion and environmental degradation. These initiatives not only contribute to re-greening programs but also promote food sustainability by planting high-value crops such as fruit-bearing trees intercropped with cash crops.

The project was implemented in partnership with the Local Government Units (LGUs) of San Mariano, Delfin Albano, Quirino, Cordon, Burgos and Echague; the National Irrigation Administration – Isabela management Office (NIA-IMO); and a farmer-beneficiary from Sitio Disipon, Barangay Sindon Bayabo, City of Ilagan. These partners assisted the PG-ENRO in identifying, inspecting, and evaluating proposed project sites.

The Provincial Government provided seedlings and fertilizers while the partner LGUs, agencies and beneficiaries handled site preparation, planting, maintenance, and protection activities. To date, a total of 54.20 hectares of agroforestry, urban greening and carbon sink development projects have been completed since the program began in 2017. The following agroforestry, urban greening, and carbon sink projects were implemented in C.Y. 2024:

**Table 5. Agroforestry, Urban Greening, and Carbon Sink Development Projects**

No.	Project Location	Area (has.)	Assistances
1.	Brgy. Sindun Bayabo, City of Ilagan, Isabela	2.0	800 seedlings and 5 sacks of organic fertilizer
2.	Brgy. Minanga, San Mariano, Isabela	2.0	800 seedlings and 5 sacks of organic fertilizer
3.	Brgy. Carmencita, Delfin Albano, Isabela	2.0	800 seedlings and 5 sacks of organic fertilizer
4.	Brgy. Villa Miguel, Quirino, Isabela	2.0	800 seedlings and 5 sacks of organic fertilizer
5.	Brgy. Capirpiriwan, Cordon, Isabela	5.0	1,900 seedlings and 19 sacks of organic fertilizer
6.	Brgy. San Miguel, Burgos, Isabela	1.0	400 seedlings
7.	Brgy. Sta. Cruz, Echague, Isabela	2.25	900 seedlings
8.	Brgy. San Vicente, San Pablo, Isabela	2.0	800 seedlings and 5 sacks of organic fertilizer
9.	Brgy. Linglingay, Gamu, Isabela	1.0	400 seedlings
<b>T O T A L</b>		<b>19.25</b>	

➤ **Two-hectare Agroforestry Development Project at Sitio Disipon, Brgy. Sindun Bayabo, City of Ilagan, Isabela**

- A two-hectare farm identified at Sitio Disipon, Sindon Bayabo, City of Ilagan, tilled by an upland farmer and planted with cash crops and some forest trees, was validated as suitable for agroforestry. After presenting the project to the farmer-beneficiary, he expressed willingness to partner with the Provincial Government to develop his area into an agroforestry farm. A total of 800 fruit tree and forest tree seedlings and 5 sacks of organic fertilizer were provided for the project. Under the supervision of ENRO personnel, the farmer implemented the project from September

to October 2024 and committed to conducting maintenance and protection activities to ensure a high survival rate for the seedlings.



➤ ***Two-hectare Urban Greening/Carbon Sink Development Project at Barangay Minanga, San Mariano, Isabela***

- In partnership with the MLGU San Mariano through the Municipal ENRO, the Provincial Government developed two hectares of urban greening/carbon sink areas in Brgy. Minanga, San Mariano, Isabela. Following site inspection and validation by MENRO personnel, planting activities were conducted in August and September 2024 by DOLE-TUPAD and DSWD-RRP Cash for Work beneficiaries, supervised by MLGU personnel. A total of 800 assorted fruit-tree and forest tree seedlings were planted. The MLGU has taken responsibility for maintenance and protection activities to ensure a high survival rate.



➤ ***Two-hectare Agroforestry Development Project at Barangay Carmencita, Delfin Albano, Isabela***

- In partnership with MLGU Delfin Albano and its MENRO, the Provincial Government developed two hectares for agroforestry at Brgy. Carmencita, Delfin Albano, Isabela. After site inspection and validation, planting activities were carried out in September 2024 by DOLE-TUPAD and DSW-RRP Cash for Work beneficiaries, supervised by MLGU personnel. A total of 800 assorted forest and fruit tree seedlings were planted. The MLGU were responsible for maintenance and protection activities to ensure sustainability.



➤ **Two-hectare Carbon Sink Plantation at Barangay Villa Miguel, Quirino, Isabela**

- In partnership with MLGU Quirino through the Municipal ENRO, a two-hectare in Barangay Villa Miguel, Quirino, Isabela was designated for a carbon sink plantation. Planting activities were conducted between September and October 2024 by DOLE-TUPAD beneficiaries with supervision by MLGU personnel. A total of 800 assorted forest and fruit-tree seedlings were planted, with the MLGU ensuring ongoing maintenance and protection efforts.



➤ **Five-hectare Agro Forestry Development Project at Barangay Capirpiriwan, Cordon, Isabela**

- This project, implemented in partnership with the Municipal Local Government Unit of Cordon and its MENR Office, involved the development of a five-hectare agroforestry area. A total of 1,900 assorted fruit and forest tree seedlings, organic fertilizer, were provided. Planting activities took place from October to December 2024, supervised by MLGU personnel. MENRO Cordon committed to regular maintenance and protection activities to ensure a high survival rate.



➤ **One-hectare Urban Greening/Carbon Sink Development Project at Barangay San Miguel, Burgos, Isabela**

- This Provincial Government provided 400 fruit and forest tree seedlings to the Municipal Local Government Unit of Burgos as part of DSWD’s Risk Resiliency Program through its Cash for Work initiative. Planting was carried out by MLGU personnel and Cash for Work beneficiaries at Barangay San Miguel with maintenance and protection activities assigned to the beneficiaries as per their agreement with the Provincial Government.



➤ **Two-hectare Urban Greening/Carbon Sink Development Project at Barangay Sta. Cruz, Echague, Isabela**

- In partnership with the MLGU Echague, the Provincial Government had provided 900 fruit and forest tree seedlings for the DSWD’s Risk Resiliency Program. Planting was conducted by MLGU personnel and Cash for Work beneficiaries at Barangay Sta. Cruz. Maintenance and protection activities are being carried out by the CFW beneficiaries as per the agreement.



➤ ***Two-hectare Agroforestry Development Project at Barangay San Vicente, San Pablo, Isabela***

- In response to a request from National Irrigation Administration-Isabela Management Office, the Provincial Government partnered with the agencies to develop degraded areas along watersheds in Barangay San Vicente. Of the 10 hectares identified, two hectares were developed in 2024. Planting activities were conducted by farmer-beneficiaries and NIA-IMO personnel, with 800 assorted fruit-tree seedlings and five sacks of organic fertilizer provided by Provincial Government. Maintenance and protection activities are being undertaken by NIA-IMO and the farmer beneficiaries to ensure the project's success.



➤ ***One-hectare Urban Greening/Carbon Sink Development Project at Barangay Linglingay, Gamu, Isabela***

- The Provincial Government supplied 400 fruit and forest tree seedlings to the Municipal Local Government Unit of Gamu for an urban greening project in Brgy. Linglingay. Planting activities were conducted in September 2024 by MLGU personnel and other national agencies. Maintenance and protection efforts are ongoing to ensure the project's sustainability.



**D. Mangrove Forest Rehabilitation Project**

The Province of Isabela is home to vast mangrove forests primarily located in the coastal municipalities of Maconacon, Divilacan and Palanan. These mangrove forests serve as a natural first line of defense against natural hazards such as storm surges and typhoons. Since 2018, the province, together with its partner MLGUs, has continuously implemented mangrove forest rehabilitation and development projects. These initiatives are sustained through the MLGUs efforts in conducting maintenance and protection activities. Monitoring conducted by this Office in previously rehabilitated mangrove forest areas showed survival rates of 95% in Maconacon, 90% in Divilacan, 95% in Palanan.

To date, a total of 32.00 hectares of mangrove rehabilitation projects have been completed since the program began in 2018. For 2024, eight hectares of mangrove forest areas were rehabilitated as detailed below:

**Table 6. Mangrove Forest Rehabilitation Projects**

No.	Project Location	Area (has.)	Assistances
1.	Brgy. Dimasalansan, Divilacan, Isabela	5.0	12,500 bakauan propagules
2.	Sitio Sabang Brgy. Maligaya, Palanan, Isabela	2.0	5,000 bakauan propagules
3.	Brgy. Malasin, Maconacon, Isabela	1.0	2,500 bakauan propagules
<b>T O T A L</b>		<b>8.0</b>	

➤ **Rehabilitation of 5 hectares Mangrove Forests at Barangay Dimasalansan, Divilacan, Isabela**

- In 2024, five hectares of degraded mangrove forests were rehabilitated in Barangay Dimasalansan, Divilacan, Isabela. The area was identified in coordination with LGU Divilacan through MENRO. The rehabilitation extended previous efforts areas in Barangay Dimasalansan, with implementation taking place in October and November 2024. A total of 12,500 bakauan propagules were planted by MLGU personnel and volunteers.



➤ **Rehabilitation of 2 hectares Mangrove Forests at Sitio Sabang, Barangay Maligaya, Palanan, Isabela**

- Two hectares of mangrove forests were rehabilitated at Sitio Sabang, Barangay Maligaya, Palanan, Isabela. The area was identified in coordination with PLGU Palanan through MENR Office. The identified area was at Sitio Sabang, Barangay San Isidro, Palanan. The rehabilitation was carried out in October and November 2024, during which 5,000 bakauan propagules were planted by MLGU personnel and DOLE-TUPAD beneficiaries.



➤ **Rehabilitation of 1 hectare Mangrove Forests at Barangay Malasin, Maconacon, Isabela**

- One hectare of mangrove forests was rehabilitated in Barangay Malasin, Maconacon, Isabela, as identified during site validation conducted by this Office. Implementation occurred in November and December 2024 with 2,500 bakauan propagules planted by MLGU personnel.



**E. Beach Forest Rehabilitation Project**

Isabela's four coastal municipalities, namely: Maconacon, Divilacan, Palanan and Dinapigue, span a 113-kilometer coastline along the Pacific Ocean, making them highly vulnerable to natural hazards such as typhoons, tidal waves, and storm surges. While the province's mangrove forests provide significant protection, the conservation and rehabilitation of beach forests remain a priority program. These efforts aim to maintain the integrity of the coastline, even amidst development in these areas.

Monitoring conducted by this office revealed survival rates of 85% in Maconacon, 15% in Divilacan, and 90% in Palanan for beach forest rehabilitation projects implemented in 2023. The project in Divilacan, Isabela suffered significant damage due to storm surges caused by consecutive typhoons in 2024.

To date, a total of 44.50 hectares of beach forest rehabilitation projects have been completed since the program began in 2018. For 2024, eight hectares of beach forests were rehabilitated as detailed below.

**Table 7. Beach Forest Rehabilitation Projects**

No.	Project Location	Area (has.)	Assistances
1.	Brgy. Culasi, Palanan, Isabela	6.0	15,000 seedlings
2.	Brgy. Bicobian, Divilacan, Isabela	2.0	5,000 seedlings
<b>T O T A L</b>		<b>8.0</b>	

- **Rehabilitation of 6 hectares of Beach Forests at Barangay Culasi, Palanan, Isabela**
  - Six hectares of beach forests areas were rehabilitated at Barangay Culasi, Palanan, Isabela. The site was identified in coordination with LGU Palanan through MENR Office. Implementation occurred in October and November 2024, with 15,000 seedlings of Agoho, Botong and Talisay planted by MLGU personnel and DOLE-TUPAD beneficiaries.



- **Rehabilitation of 2 hectares of Beach Forests at Barangay Bicobian, Divilacan, Isabela**
  - Two hectares of beach forest areas were rehabilitated at Barangay Bicobian, Divilacan, Isabela, to sustain previous rehabilitation efforts that were damaged by storm surges. The site was identified in coordination with MLGU Divilacan through MENRO. Planting activities took place in October and November 2024, during which 5,000 of Agoho, Botong, and Talisay were planted by MLGU personnel and volunteers.





**F. Monitoring of Implemented Projects and Distributed Seedlings**

➤ ***Monitoring of Implemented Projects Damaged by Forest Fire Incidents***

This Office, through its personnel, conducted monitoring activities in project sites damaged by forest fire incidents in the municipalities of Mallig, Delfin Albano, and Quezon, Isabela, on April 24-25, 2024. Information gathered from MENROs revealed that the fires were allegedly caused by farmers burning farm areas, which unintentionally spread and affected nearby plantations. These farmers are currently under investigation by their respective LGUs.



- LGU Mallig, through its MENRO, submitted an initial fire incident report to this Office.
- LGU Delfin Albano and Quezon committed to submitting their reports earlier in the month of May.

Inspection of the affected watershed and agroforestry project areas in Trinidad, Mallig; Sitio Namnama, Barangay Santos, Quezon; and Sitio Villa TJ, Barangay Carmencita, Delfin Albano, Isabela, revealed significant damage, with only about 5% of the projects remaining unaffected.

➤ ***Monitoring of Previously Implemented Projects***

Personnel from this Office conducted monitoring activities to assess the survival rates of seedlings planted in previous projects. Below are the findings for CY 2024:

- Echague, Isabela:  
Bamboo planted in the riparian areas of Barangays Sta. Cruz and Maritao in the previous year's project has grown to more than 2 meters in height, with an approximate survival rate of 60%.
- Naguilian, Isabela:  
Narra and Mahogany trees planted in Barangays Minallo and Cabaruan under the watershed rehabilitation project were inspected. However, it was observed that maintenance activities are lacking and need to be conducted.
- Maconacon, Isabela:
  - ✓ Mangrove forest rehabilitation project – approximately 90% survival rate was observed.
  - ✓ Beach forest rehabilitation projects – Approximately 90% survival rate was observed. MLGU Maconacon is conducting regular maintenance activities.
- Divilacan, Isabela:
  - ✓ Mangrove forest rehabilitation projects in Barangays Dimasalansan and Bicobian – approximately 90% survival rate.

LGU Divilacan is conducted enrichment planting and bakauan propagules are propagated and nurtured at MENRO Nurser.

- ✓ Beach forest rehabilitation project in Barangay Bicobian – Approximately 90% survival rate was observed. MLGU Maconacon is conducting regular maintenance activities.
- Palanan, Isabela:
  - ✓ Mangrove forest rehabilitation project in Barangay Maligaya – approximately 90% survival rate. Seedlings of Botong, Bakawan, and Pototan species were inspected, partially planted, and staking of the remaining area is complete. Planting will resume as scheduled.
  - ✓ Beach forest rehabilitation project in Sitio Sabang, Barangay Maligaya and Barangay San Isidro – In Sitio Sabang, Brgy. Maligaya, Agoho, Talisay, and Botong seedlings planted along the seashore have a 90% survival rate and are now 2-4 feet tall. In Brgy. San Isidro, Botong and Talisay from a previous beach forest rehabilitation project show a 95% survival rate, reaching 2-4 meters in height.

➤ **Monitoring of Seedlings Distributed to Various Beneficiaries**

Random inspection of seedlings distributed to various beneficiaries in the province revealed the following results:

- BJMP San Mateo Municipal Jail – 100 seedlings were provided last year achieved an impressive 95% survival rate.
- Echague District Hospital – 50 seedlings provided last year recorded a 15% survival rate.
- Cauayan East Central School – 100 seedlings distributed last year achieved a 90% survival rate.
- Mr. Redentor Gallo (resident of Upi, Gamu) – 15 seedlings provided last year had an 85% survival rate.
- Brgy. Carmencita, Delfin Albano – 50 seedlings provided last year noted 85% survival rate.
- Namnama Elementary School – 50 seedlings provided last year 2017 recorded more or less 90% survival rate. The seedlings are now fully grown with a height of 2 to 3 meters tall.
- Barangay Alinguigan 2<sup>nd</sup>, City of Ilagan – planted their requested bamboo seedlings at the riverbanks. Officials of the barangay said that the high mortality rate of the bamboo propagules are caused by extreme heat, flood, and on-going river control project with a survival rate of more or less 20%.
- Mr. Flordelindo Asuncion (resident of San Mariano) – requested seedlings and propagules from year 2018 to 2022. The 80 bamboo propagules and various fruit and forest tree seedlings were planted on their farm in Barangay Minanga, San Mariano. It was observed that these seedlings and propagules had an impressive 90% survival rate, with the plants reaching a height of 5 meters.



**G. Inspection of Completed Dredging Areas Proposed for Bamboo Planting**

Personnel from this Office conducted an inspection of completed dredging projects across the province, including the municipalities of Sta. Maria, Cabagan, Tumauni, San Guillermo, Angadanan, San Pablo, Sto. Tomas, Delfin Albano, Mallig, Naguilian, Roxas, Quezon, Quirino, San Isidro, Reina Mercedes, Luna, and Cabagan, as well as the cities of Ilagan and Cauayan, Isabela.

The primary objective was to identify suitable areas within the dredged sites for bamboo planting. This initiative, spearheaded by the governor, aims to rehabilitate these sites in close collaboration with Barangay Local Government Units.

A total of 34 areas were inspected, covering a dredging length of 12,205 meters, of which approximately 4,465 meters were deemed suitable for bamboo planting. The bamboo planting activities are expected to commence in 2025.



**Bagabag Creek**



**Cullalabo Creek**



**Calinaoan Creek**



**Casili Creek**



**Nanaguan Creek**



**IV. Biodiversity Conservation and Wildlife Protection**

The Provincial Government of Isabela recognizing its duty and privilege to collaborate with the national government in managing and preserving ecological equilibrium within its jurisdiction, biodiversity conservation and wildlife protection has become one of its priority programs under the Environment and Natural Resources Office. The province is currently implementing projects, and activities (PPAs) focused on conserving biodiversity which includes wildlife law enforcement. There are ten (10) deputized Wildlife Enforcement Officers (WEOs) among ENRO and ISEP-TF personnel conducting activities such as biodiversity monitoring within the vicinities of Northern Sierra Madre Natural Park, urban biodiversity assessment, patrolling and law enforcement activities. For 2024, the following activities were accomplished.

**a. Urban Biodiversity Assessment**

This activity was facilitated by the Department of Environment and Natural Resources (DENR) to guide Local Government Units toward determining the condition of existing urban biodiversity that will update bio-physical profiles and develop relevant reports and plans on the status of biodiversity.

For the duration of the assessment conducted at Rizal Park, Brgy. Centro Poblacion, Brgy. Alibagu, and Holy Trinity Agroforestry Farmer’s Cooperative (HATFC) and Brgy. Rang-ayan, City of Ilagan, Isabela, the Technical Working Group (TWG) used primary method for bird survey the Line Transect Count which entails relatively 2-km line using mist net. Eleven (11) Mist Net Stations were positioned and were monitored by the participants every hour from 4:00 in the morning up to 10:00 in the evening in order to assess the Fauna (birds and mammals) that are active during the day (Diurnal) and during the night (Nocturnal). Prior to release, the birds and mammals (bats) trapped in the mist net must be untied and removed after each species was measured to gather the needed data from the species.

Flora Assessment was also conducted. Diameter at Breast Height (DBH), Merchantable Height (MH) and Total Height (TH) were determined.

**Table 8. Field Data Sheet for Ecosystem Lever Assessment (Centro, City of Ilagan)**

FIELD DATA SHEET FOR ECOSYSTEM LEVER ASSESSMENT				
Area: Rizal Park, Centro, Pob., Ilagan City, Isabela			Date: May 13-15, 2024	
Observer(s): PGI rep., MLGU rep., PAMBC Staff from PENRO: Lulu, Nora, from CNAG: Jovie, Rods, Lea, Junjun, Delmar, Jay, Jose, Idung, Jr., Bryan, Ara, Noli				
Vegetation Type: Urban Recreational Park				
NO.	SPECIES	DBH (cm)	MH (m)	TH (m)
1	Balete	50	4	10

		15	3	8
		30	5	7
		59	5	12
		50	4	10
2	Alibangbang	30	3	8
3	Alim	25	4	10
4	Araucaria	55	6	13
5	Balitbitan	18	2	5
6	Dita	41	5	15
7	Exoecaria cochinchinensis	20	3	7
8	Fern tree	22	2	8
9	Ficus natalensis	17	3	7
10	Ficus retosa	25	4	8
11	Fire tree	45	6	15
12	Foxtail palm	25	4	12
13	Furcrea foetida	20	4	12
14	Gmelina	125	6	13
15	Indian Lanutan	120	5	9
16	Indian tree	20	4	8
17	Ipil-ipil	25	4	9
18	Calamansi	20	4	7
19	Manila palm	20	3	5
20	Muraya paniculata	55	5	10
21	Narra	135	5	12
22	Neem tree	130	4	12
23	Palm tree	15	3	7
24	Ponocarpus erectus acacia	125	4	15
25	Royal palm	25	4	7
26	Terminalia neotaliala	15	3	7

**Table 9. Fauna Species (Centro, City of Ilagan)**

FAUNA SPECIES			
1	Local Name	Scientific Name	Observation
2	Fruit bat	<i>Chiroptera</i>	Mistnet trap
3	Pied Fantail	<i>Rhipidura javanica</i>	Mistnet trap/Seen/Heard
4	Grey-capped Emerald Dove	<i>Chalcophaps indica</i>	Seen/Heard
5	Housebird	<i>Eurasean Tree Sparrow</i>	Mistnet trap/Seen/Heard
6	Butterfly Bush	<i>Petalostylis labicheoides</i>	Seen
7	Phil. Bulbul	<i>Hypsipetes philippinus</i>	Seen/Heard

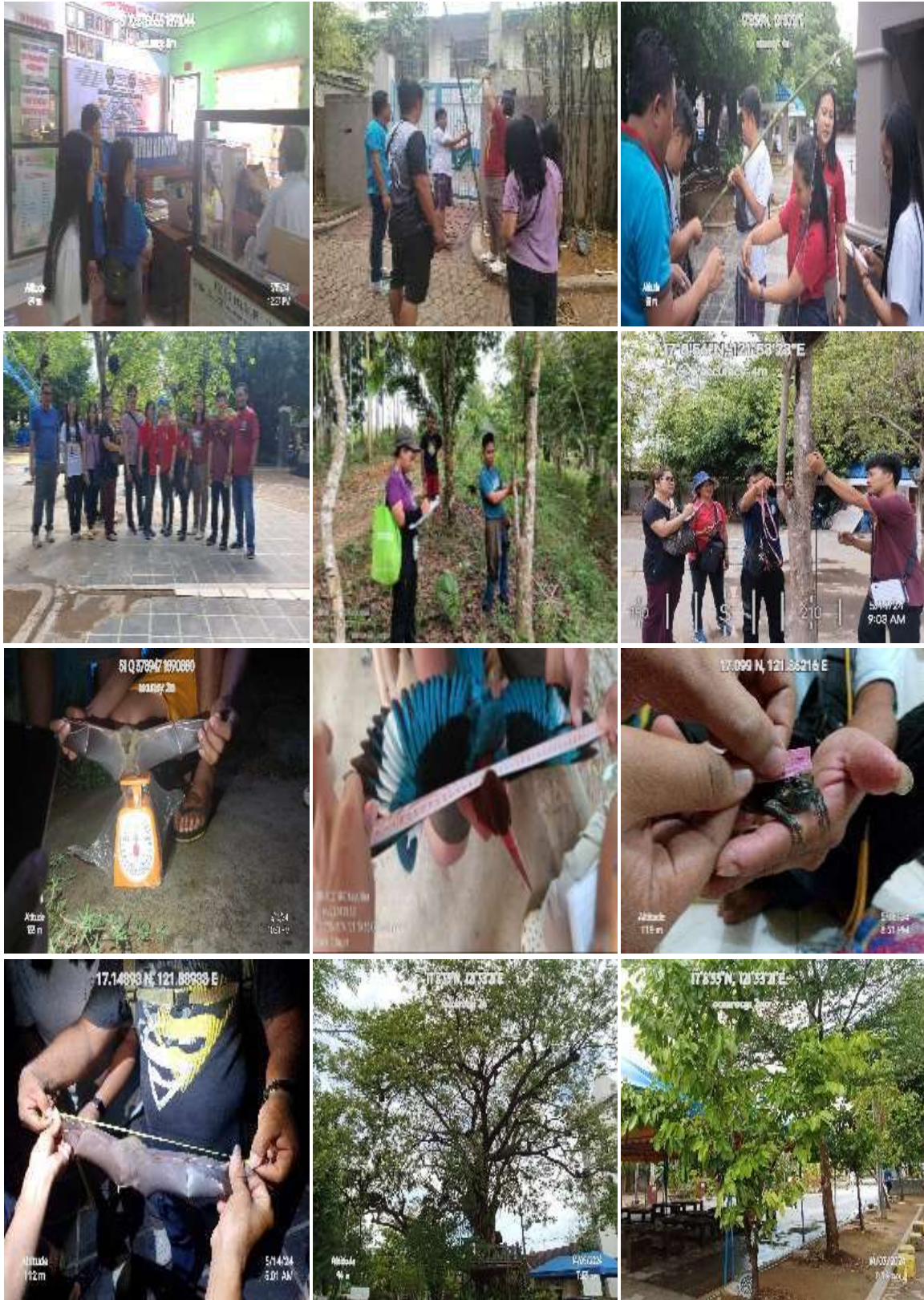
**Table 10.** Field Data Sheet for Ecosystem Lever Assessment (Alibagu, City of Ilagan)

<b>FIELD DATA SHEET FOR ECOSYSTEM LEVER ASSESSMENT</b>				
Area: Community Center, Alibagu, Ilagan City			Date: May 15-17, 2024	
<b>NO.</b>	Observer(s): PGI rep., MLGU rep., PAMBC Staff from PENRO: Lulu, Nora, from CNAG: Jovie, Rods, Lea, Junjun, Delmar, Jay, Jose, Idung, Jr., Bryan, Ara, Noli			
	Vegetation Type: Urban Forest Park			
	<b>SPECIES</b>	<b>DBH (cm)</b>	<b>MH (m)</b>	<b>TH (m)</b>
1	Bettle nut	20	3	6.5
2	Alim	30	3	7
3	Atis	Sapling		
5	Binunga	Sapling		
8	Cacao	Sapling		
9	caimito	44	1.5	12
12	Dita	376.5	1.8	20
17	Guyabano	21	34	26
18	Hauili	Sapling		
19	Indian Lanutan	29	4	5.5
20	Ipil-ipil	22	3	6
21	Is-is Ibon	Sapling		
22	Lagundi	Sapling		
24	Mahogany	32	5	17
	Mahogany	36	5	7
	Mahogany	26	3	7
	Mahogany	31	4	8
	Mahogany	40	4	8
	Mahogany	36	3	8
	Mahogany	25	2	7
	Mahogany	180	4	10
	Mahogany	168	4	10
	Mahogany	45	3	7
	Mahogany	45	4	8
	Mahogany	50	4	8
	Mahogany	50	4	7
	Mahogany	49	4	7
	Mahogany	44	4	6
	Mahogany	170	9	12
	Mahogany	44	2	6
	Mahogany	44	2	6
	Mahogany	78	3.5	8
	Mahogany	42	2	8
	Mahogany	68	3	8
	Mahogany	75	3	8
	Mahogany	35	2	6

	Mahogany	132	4	12
	Mahogany	152	4	12
	Mahogany	32	2	6.5
	Mahogany	41	2	6
	Mahogany	37	3	7
	Mahogany	67	5	10
	Mahogany	76	5	10
	Mahogany	47	5	4
	Mahogany	34	2	6.5
	Mahogany	147	3.5	11
	Mahogany	158	3	12
	Mahogany	60	3	7
	Mahogany	12	2	1
	Mahogany	94	3	8
	Mahogany	72	3	8
	Mahogany	200	4	12
25	Malakahoy	35	3	7
26	Mango	72	3	7
27	Narra	120	3	11
28	Ponocarpus erectus acacia	120	4	12
29	Suha/Pomelo	15	2	5

**Table 11. Fauna Species (Alibagu, City of Ilagan)**

FAUNA SPECIES		
Local Name	Scientific Name	Observation
Fruit bat	<i>Chiroptera</i>	Mistnet trap
Pied Fantail	<i>Rhipidura javanica</i>	Mistnet trap/Seen/Heard
Zebra dove	<i>Geopelia striata</i>	Mistnet trap/Seen/Heard
Butterfly bush	<i>Petalostylis labicheoides</i>	Seen
Banded bullfrog	<i>Kaloula pulchra</i>	Trapped
White dove	<i>Columba livia domestica</i>	Seen/Heard



Photos of the Urban Biodiversity Assessment at Rizal Park, Brgy. Centro Poblacion, Brgy. Alibagu, Holy Trinity Agroforestry Farmer's Cooperative (HATFC) and Brgy. Rang-ayan, City of Ilagan, Isabela



### b. Wildlife Law Enforcement Trainings for Wildlife Enforcement Officers (WEOs)

The Provincial Government of Isabela, through the Environment and Natural Resources Office (ENRO) conducted the two Wildlife Enforcement Trainings. This initiative aims to enhance the knowledge and skills of ENRO personnel, ISEP-TF and C/MENRO personnel who will be designated as WEOs. The trainings held on June 13, 2024, at the Provincial Ecology Center Building, ENR Office and October 10, 2024 at GFND Hall, Provincial Capitol. The training covered a range of topics crucial for effective wildlife law enforcement. Forester III, Juli Anne B. Gammad of DENR-PENRO Isabela served as the Subject Matter Expert (SME). Participants engaged in presentations and structured learning exercises on:

- Status of Biodiversity
- Introduction to RA 9147
- Jurisdiction and Mandates of Different Government Agencies
- Responsibilities of Wildlife Enforcement Officers (WEOs)
- Evidence in Wildlife Cases
- Investigation and Legal Forms
- Wildlife Law Enforcement Protocol
- Rules of Procedure on Environmental Cases

This training program goes beyond advancing conservation objectives. It serves as a testament to PGI's unwavering commitment to good governance, sustainable development of the province's natural resources, and safeguarding its natural heritage for future generations.

The trainings also resulted to the deputation of ten (10) ENRO and ISEP-TF personnel as Wildlife Enforcement Officers which currently performs wildlife protection activities.



*Photos of the 1<sup>st</sup> batch of one-day training program on the Wildlife Resources Conservation and Protection Act (RA 9147) for deputized Wildlife Enforcement Officers*





*Photos of the 2<sup>nd</sup> batch participants of Wildlife Enforcement Training for the Deputation of Wildlife Enforcement Officers (WEO)*

This office also conducted a One Day Capacity Building for Wildlife Enforcement Officers (WEOs) on the Wildlife Conservation and Protection Act (RA 9147), ENRO personnel participated in a field orientation conducted by experts from the Mabuwaya Foundation. The event took place at the Philippine Crocodile Conservation Center, ISU San Mariano, Isabela in celebration of World Wildlife Day. This session aimed to enhance the practical knowledge of participants on wildlife conservation, with a special focus on the critically endangered Philippine crocodile. For. Bernard Tarun, a Biodiversity Specialist of the Mabuwaya Foundation, led the session, providing a

comprehensive overview of the various wildlife species found in Isabela and addressing all participants' questions. After the orientation, participants proceeded to the crocodile rearing and breeding grounds at the back of the center, where they observed the habitat of the crocodiles, including partners Fernando and Angie, along with other juvenile crocodiles. Participants had the opportunity to take a photo with one of the 2-year-old juvenile crocodile and learned how to handle them safely. This field orientation is part of the ongoing efforts of the Provincial Government of Isabela to strengthen the enforcement of RA 9147, promote sustainable environmental practices through continuous education, and collaborate with conservation experts to ensure the effective protection of wildlife in the province.



*Field Orientation on Wildlife Resources Conservation and Protection Act (RA 9147) on June 28, 2024 at Philippine Conservation Center, ISU San Mariano, Isabela.*

### **c. Biodiversity Monitoring, Regular Surveillance, and Foot Patrolling**

The Deputized Wildlife Enforcement Officers (WEOs) in collaboration with the Department of Environment and Natural Resources (DENR) engaged on strict implementation of Law Enforcement to combat illegal wildlife activities thereby safeguarding the existing wildlife resources in the province. The WEOs are continuously conducting biodiversity monitoring, regular surveillance, and foot patrolling province-wide especially within the Northern Sierra Madre Natural Park (NSMNP) and its vicinities. These undertakings were aimed at detecting any illegal actions that includes collecting, hunting, transporting and trading of wildlife, their by-products and derivatives.

For this year, Wildlife Enforcement Officers (WEOs) encountered a group of Aetas carrying different kinds of hunting tools and materials at the Northern Sierra Madre Natural Park (NSMNP), along the vicinities of Isabela- Divilacan Road Rehabilitation Project. One of the IP's primary sources of living is gathering and hunting of wildlife. However, the deputized WEOs advised the Aeta's Group not to gather or hunt any wildlife species purposely for trading. In addition, during the biodiversity and wildlife field monitoring, the WEOs track down and removed different hunting traps within the reforestation area located at Brgy. Sindun Bayabo, City of Ilagan, Isabela. These traps were designed for gathering wild pigs.



*Photos during biodiversity monitoring, regular surveillance, and foot patrolling*

**d. Inland Wetlands**

Wetlands shall refer to a wide variety of water areas such as natural ponds, freshwater swamps/marshes, peat lands, rivers and lakes, and coastal areas such as mangroves, lagoons as well as human-made wetlands includes dams, reservoirs, rice paddies, fish ponds and waste water treatment ponds. The Province of Isabela thru this office had prescribed cities/municipalities an inventory of inland wetlands within its respective jurisdiction per DENR Memorandum Circular 1997-17 (Criteria for the identification of Wetlands Critical to Biodiversity Conservation). The data were then collected by the province as part of its biodiversity and wetland profiling. For C.Y. 2024, the inventory of inland wetlands from 19 Local Government Units was collected as shown in the table below.

Inventory of Inland Wetlands submitted by municipalities were as follows:

**Table 12.** *Inventory of Inland Wetlands*

<b>Municipality</b>	<b>Inland Wetlands</b>
Cabagan	3 Lakes; 4 Rivers; and 2 Falls
San Guillermo	3 Rivers; 8 Creeks; 2 SWIPs; 2 Falls; 26 Barangays-Rice fields; and 26 Barangays Homemade/Aquaculture ponds
Sta. Maria	2 Lakes and 1 Bird Ground and Sanctuary
Tumauini	3 Rivers; 4 Creeks; and 3 Falls San Mariano: 1 Lake and 2 Rivers
Ramon	1 Reservoir/Dam and 4 Creeks
Palanan	2 Rivers; 1 Lagoon; 2 Lakes; 1 Mangrove Forest or Intertidal Wetland; and 1 Intertidal Wetland Flat with Coral Beds/Sea Grasses
Cauayan City	2 Ponds
Angadanan	1 Pond
Divilacan	2 Rivers; 1 Coastal Wetland; and 1 Lake
San Isidro	1 SWIP; 4 Creeks; and 1 SWIP/Reservoir
Jones	1 Lake and 1 SWIP
Quirino	2 Reservoir/SWIP and 1 River
Dinapigue	2 Rivers
Delfin Albano	1 SWIP ( Bird Breeding Ground and Sanctuary)
Echague	7 Creeks and 4 Rivers
Cordon	4 Rivers; 1 Lake; 6 Creeks; and 2 SWIP
Jones	15 Waterfalls; 28 Creeks; and 5 Rivers
San Mariano	2 SWIP; 1 Lake; 6 Rivers; and 1 Creek
San Pablo	3 Rivers and 1 Lake

**e. Maintenance of Isabela Provincial Eco-Park**

The Isabela Provincial Eco-Park was adopted as park and green space by virtue of Executive Order No. 41 series of 2022. It covers all the green spaces within the vicinities of the Provincial Capitol Compound - the Queen Isabela Park, the area formerly known as Isabela Permaculture Learning Development Center, and other green spaces.

This office hired four Job Order laborers to ensure the maintenance of the park. Throughout the year, the laborers conducted maintenance activities such as grass cutting, pruning, housekeeping, landscaping, planting and other activities.



*Photos of maintenance and beautification activities at the Isabela Provincial Eco-Park*

In addition, biodiversity assessment of the Provincial Eco-Park was also conducted to identify the different flora and fauna present in the area as well as its biophysical characteristics. A total of 69 tree species, 3 bamboo species and 20 fauna species were identified during the flora and fauna assessment. The result of the assessment is vital for implementation of appropriate interventions in the area to be incorporated in the management plan.

***List of identified flora species within the Isabela Provincial Eco-Park***

**Table 13.** *List of Identified Flora Species within the Isabela Provincial Eco-Park*

	No. of Species	SPECIES (Common Name)	Scientific Name	Family Name	Conservation Status	Distribution
1	12	Rain tree	<i>Samanea saman</i>	Fabaceae	Not Evaluated	Native
2	8	Anabiong	<i>Trema orientalis</i>	Cannabaceae	Least concern	Endemic
3	22	Ipil-ipil	<i>Leucaena leucocephala</i>	Fabaceae	Least concern	Endemic
4	31	yemane/Gmelina	<i>Gmelina arborea</i>	Lamiaceae	Least concern	Native
5	3	Is-is	<i>Ficus ulmifolia</i>	Moraceae	Least concern	Endemic

6	3	Kape	<i>Coffea arabica</i>	Rubiaceae	Least concern	Endemic
7	16	Tibig	<i>Ficus nota</i>	Moraceae	Not Evaluated	Native
8	7	Alim	<i>Melanolepis multiglandulosa</i>	Euphorbiaceae	Least concern	Native
9	9	Yakal	<i>Shorea astylosa</i>	Dipterocarpaceae	Critically endangered	Endemic
10	2	Antipolo	<i>Artocarpus blancoi</i>	Moraceae	Least concern	Endemic
11	8	Tuai	<i>Bischofia javanica</i>	Phyllanthaceae	Least concern	Native
13	1	Balitbitan	<i>Cynometra ramiflora</i>	Fabaceae	Least concern	Endemic
14	2	Talisay	<i>Terminalia catappa</i>	Combretaceae	Least concern	Endemic
15	7	Ipil	<i>Instia bijuga</i>	Fabaceae	Least concern	Endemic
16	1	Kamagong	<i>Diospyros blancoi</i>	Ebenaceae	Endangered	Endemic
17	3	Binunga	<i>Macaranga tanarius</i>	Euphorbiaceae	Least concern	Native
18	2	Hauli	<i>Ficus septica</i>	Moraceae	Least concern	Native
19	3	Kalio	<i>Hopea malibato</i>	Dipterocarpaceae	Critically endangered	Endemic
20	2	Kalumpit	<i>Terminalia microcarpa</i>	Combretaceae	Least concern	Native
21	5	Aratilis	<i>Muntinga calabura</i>	Muntingiaceae	Least concern	Endemic
22	1	Kamiring	<i>Semecarpus cuneiformis</i>	Anacardiaceae	Least concern	Endemic
23	9	African Tulip	<i>Spathodea campanulata</i>	Bignoniaceae	Endangered	Native
24	8	Golden Shower	<i>Cassia fistula</i>	Fabaceae	Least concern	Native
25	2	Amugis	<i>Koordersiodendron pinnatum</i>	Anacardiaceae	Endangered	Endemic
26	1	Binayuyo	<i>Antidesma ghaesembilla</i>	Phyllanthaceae	Endangered	Native
27	12	Madre de Agua	<i>Trichanthera gigantea</i>	Acanthaceae	Least concern	Native
28	1	Pugahan/Fishtail palm	<i>Caryota griffithii</i>	Arecaceae	Least concern	Native

29	4	Verba	<i>Garcinia xanthochymus</i>	Clusiaceae	Least concern	Native
30	11	Molave	<i>Vitex parviflora</i>	Fabaceae	Least concern	Endemic
31	10	Alibangbang	<i>Bauhinia purpurea</i>	Fabaceae	Least concern	Native
32	13	Narra	<i>Pterocarpus indicus</i>	Fabaceae	Endangered	Native
33	1	Dao	<i>Dracontamelon dao</i>	Anacardiaceae	Critically endangered	Endemic
34	1	Malaputat	<i>Terminalia darlingii</i>	Combretaceae	Endangered	Endemic
35	3	Banaba	<i>Largestroemia globosa</i>	Musaceae	Vulnerable	Native
36	13	Niyog	<i>Cocos nucifera</i>	Arecaceae	Least concern	Native
37	1	Golden Bamboo	<i>Bambusa vulgaris</i>	Poaceae	secure	Native
38	13	Kentucky Coffee	<i>Gymnocladus dioica</i>	Fabaceae	Least concern	Native
39	1	Indian tree	<i>Polyalthia longifolia</i>	Annonaceae	Least concern	Native
40	1	Pandakaki	<i>Tabernaemontana pandacaqui</i>	Apocynaceae	Least concern	Endemic
41	1	katmon	<i>Dillenia philippinensis</i>	Dilleniaceae	Critically endangered	Native
42	1	Hinlaumo	<i>Mallotus mollissimus</i>	Euphorbiaceae	Least concern	Native
43	2	Alagaw	<i>Premna odorata</i>	Lamiaceae	Least concern	Native
44	1	Bangkal	<i>Nuclea orientalis</i>	Rubiacea	least concern	Native
45	1	American kapok	<i>Ceiba pentandra</i>	Malvaceae	Not Evaluated	Native
46	1	Balete	<i>Ficus benjamina</i>	Moraceae	least endangered	Native
47	3	Manila Palm	<i>Veitchia merrillii</i>	Arecaceae	near threatened	Native
48	2	Kahoi dalaga	<i>Mussaenda philippica</i>	Rubiacea	Least concern	Endemic
49	1	Pili	<i>Canarium ovatum</i>	Burseraceae	Endangered	Native



50	3	Bayag usa	<i>Vocanga globosa</i>	Apocynaceae	least concern	Endemic
52	1	Syzigium Sp.	None	Myristicaceae		
53	4	Rambutan	<i>Nephelium lappaceum</i>	Sapindaceae	Least concern	Native
54	9	Mangga	<i>Mangifera indica</i>	Anacardiaceae	Least concern	Native
55	14	Mulberry	<i>Morus rubra</i>	Moraceae	Least concern	Native
56	4	Bignai	<i>Antidesma bunius</i>	Phyllanthaceae	Least concern	Endemic
57	3	Guyatis	None	Annonaceae	Least concern	Endemic
58	2	Langka	<i>Mussaenda philippica</i>	Moraceae	Endangered	Native
59	2	Mangosteen	<i>Garcinia mangostana</i>	clusiaceae	Least concern	Native
60	3	Lansones	<i>Lansium domesticum</i>	Meliaceae	Least concern	native
61	2	Guyabano	<i>Annona muricata</i>	Anonaceae	Least concern	Native
62	1	Pomelo	<i>Citrus maxima</i>	Rutaceae	Least concern	Native
63	1	Avocado	<i>Persea americana</i>	Lauraceae	Least concern	Native
64	1	Calamansi	<i>Citrus microcarpa</i>	Rutaceae	Least concern	Native
65	2	Tamarind	<i>Tamarindus indica</i>	Leguminosae	Least concern	Native
66	22	Banana	<i>Musa acuminta</i>	Musaceae	Least concern	Native
67	1	Caimito	<i>Chrysophyllum cainito</i>	Sapotaceae	Least concern	Native
68	1	Antipolo	<i>Artocarpus altilis</i>	Moraceae	Least concern	Native
69	46	Bayog bamboo	<i>Bambusa spinosa</i>	Poaceae	Least concern	Native
70	4	Kawayan Tinik	<i>Bambusa blumeana</i>	Poaceae	Least concern	Native
71	4	Kawayan Kiling	<i>Bambusa vulgaris</i>	Poaceae	Least concern	Native

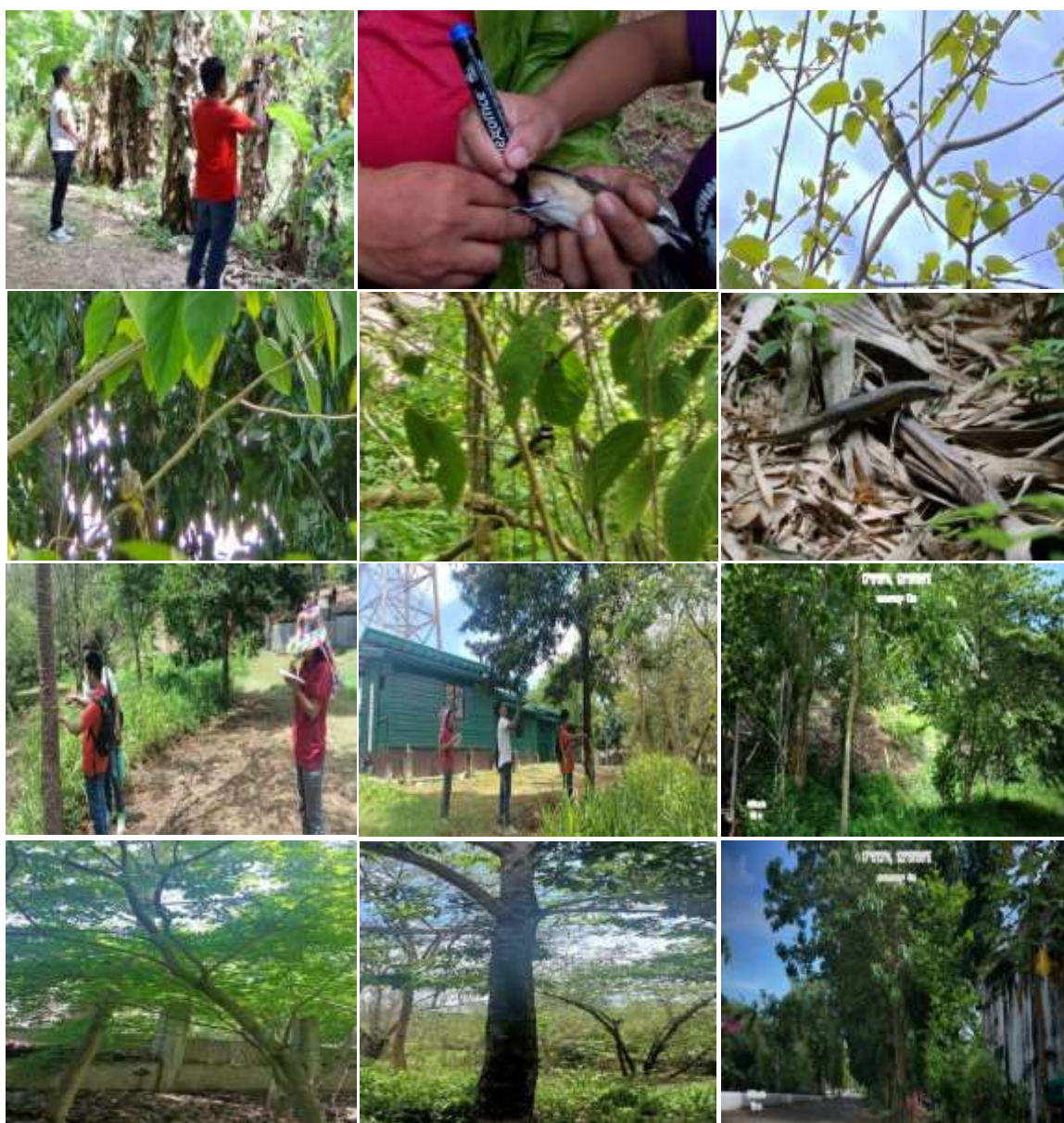
List of identified bird's species within the Isabela Provincial Eco-Park

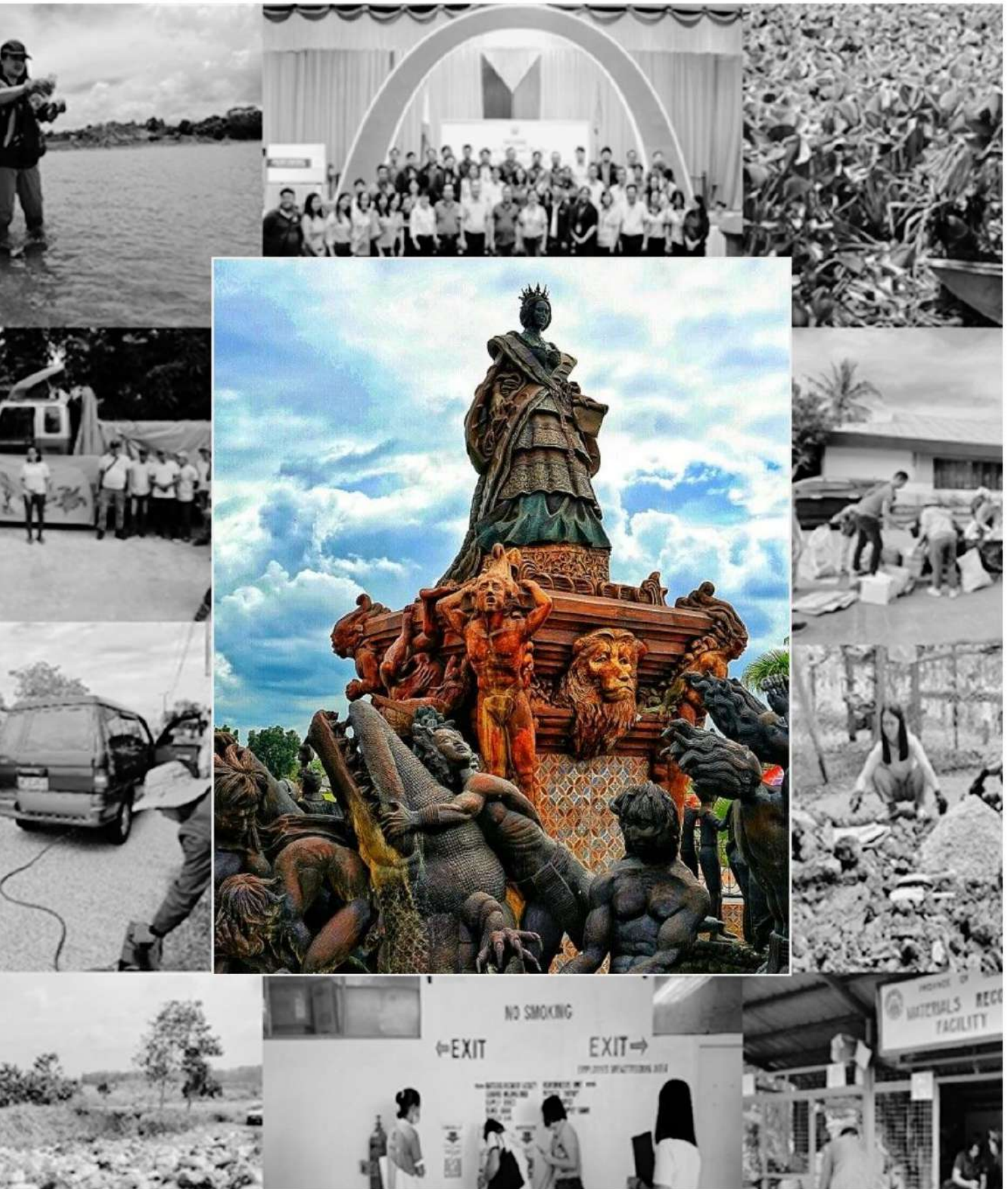
Table 14. List of Identified Bird Species within the Isabela Provincial Park

No.	Common Name	Family name	Scientific name	Distribution	Conservation Status
1	Philippine Bulbul	Pycnonotidae	<i>Hypsipetes philippinus</i>	Endemic	Least concern
2	Pied fantail	Rhipiduridae	<i>Rhipidura nigritorquis</i>	Endemic	Least concern
3	Common emerald dove	Columbidae	<i>Chacophaps indica</i>	Resident	Least concern
4	colasisi	Psittaculidae	<i>Loriculus philippensis</i>	Endemic	Least concern
5	Chestnut munia	Estrildidae	<i>Lonchura atricailla</i>	Resident	Least concern
6	Eurasian tree sparrow	Sparrow	<i>Passer montanus</i>	Resident	Least concern
7	Black-naped oriole	Oriole	<i>Oriolus chinensis</i>	Resident	Least concern
8	Brown shrike	Laniidae	<i>Lanius cristatus</i>	Native	Least concern
9	Cattle egret	Ardeidae	<i>Bubulcus ibis</i>	Native	Least concern
10	Cinnamon Bittern	Ardeidae	<i>Ixobrychus cinnamomeus</i>	Native	Least concern
11	Intermediate egret	Ardeidae	<i>Mesophoyx intermedia</i>	Native	Least concern
12	Long tailed shrike	Laniidae	<i>Lanius schach</i>	Resident	Least concern
13	Northern indigo banded kingfisher	Alcedinidae	<i>Alcedo cyanopecta</i>	Endemic	Least concern
14	Paddyfield pipit	Motacillidae	<i>Anthus rufulus</i>	Native	Least concern
15	Straited grassbird	Locustellidae	<i>Megalurus palustris</i>	Resident	Least concern
16	Tawny Grassbird	Locustellidae	<i>Cincloramphus timoriensis</i>	Resident	Least concern
17	White breasted waterhen	Rallidae	<i>Amaurornis phoenicurus</i>	Native	Least concern
18	White throated king fisher	Alcedinidae	<i>Halcyon smyrnensis</i>	Native	Least concern
19	Yellow bellied whistler	Pachycephalidae	<i>Pachycephala philippensis</i>	Endemic	Least concern
20	Yellow vented bulbul	Pycnonotidae	<i>Pycnonotus golavier</i>	Endemic	Least concern

21	Blue-tailed Bee eater	Meropidae	<i>Merops philippinus</i>	Native	Least concern
22	Zebra dove	Columbidae	Least concern	Native	Least concern
23	Scaly brasted munia	Estrildidae	<i>Lornchura punctulata</i>	Threatened	Least concern
24	Streak eard bulbul	Pycnonotidae	<i>Pycnonotus blanfordi</i>	Threatened	Least concern
25	Striped skink	Scincidae	<i>Eutropis multifasciata</i>	Vulnerable	Least concern

*Photos of the Flora and Fauna Assessment at the Provincial Eco-Park*





# ENVIRONMENTAL MANAGEMENT DIVISION

**ENVIRONMENTAL MANAGEMENT DIVISION**

Planned programs, projects, and activities of the Environmental Management Division were geared toward the proper implementation & enforcement of environmental laws & policies mandated under RA 7160, which is the devolution of ENR functions to the local government units. The ENR Office, as the technical arm of the Provincial Government of Isabela, has implemented programs and activities aligned with the flagship thrusts of the Local Chief Executive concerning environmental protection, rehabilitation, and development.

***I. Search for the Most Environment-Friendly Barangays***

The Provincial Solid Waste Management Board (PSWMB), in collaboration with the Environment and Natural Resources Office, is actively fulfilling its responsibilities as outlined in the Ten-Year Provincial Solid Waste Management Plan. One of the key initiatives is the 2024 Provincial Search for the Most Environment-Friendly Barangays. This search was conducted in partnership with the City and Municipal Local Government Units (LGUs).

Through this initiative, LGUs are encouraged and required to organize a search within their jurisdictions, motivating barangays to participate. This participation not only showcases their best practices, innovative initiatives, and awareness of the program but also serves to recognize and acknowledge barangays that excel in implementing effective solid waste management systems. This effort is in accordance with Republic Act 9003, along with its implementing rules and regulations.

After the Search at the City/Municipal Levels, the winning barangays in each of the LGUs shall automatically become their entries at the Provincial Level Search for the Most Environment-Friendly Barangays.

Last July 17, 2024, the Board of Evaluators conducted orientation and initial documentary review of the 10 barangay entries before the actual field validation. The evaluation team is composed of technical personnel and representatives from the different sectors, to wit:

**Table 15.** *List of Search for the Most Environment-Friendly Barangays Evaluation Team Members*

<b>NAME</b>	<b>OFFICE/ORGANIZATION</b>
Jailaine R. Siriban (Team Leader)	DENR-EMB-PEMU Isabela
Jeremiah B. Garcia	DILG-Isabela
Regine A. Gulan	LnB Federation
Precious Gem C. Monserate	SK Federation
Julie F. Madrid	PAYOGA/KAPATAGAN MPC I

The ENR Office, with representatives from its Environmental Management Division (EMD) serving as the secretariat, effectively implements the program and manages all required documents,

supplies, and logistics. They also accompany and guide the Board of Evaluators during the Search process.

Ten (10) entry barangays from the different city/municipalities were evaluated on July 30, 2024 until August 9, 2024.

**Table 16.** *List of Barangays Participants for the Search for the Most Environment-Friendly Barangays*

<b>Barangay</b>	<b>Date of Evaluation</b>
Brgy. San Mariano Norte, San Guillermo	July 30, 2024
Brgy. Culalabat, Cauayan City	July 31, 2024
Brgy. San Isidro, Jones	August 1, 2024
Brgy. Sagat, Cordon	August 2, 2024
Brgy. Magsaysay, Naguilian	August 6, 2024
Brgy. San Juan, Quirino	August 7, 2024
Brgy. Sto. Niño, Aurora	August 8, 2024
Brgy. La Paz, Cabatuan	
District III, Gamu	August 9, 2024
Brgy. Dalig, Burgos	

The entries for the search were evaluated based on the criteria divided into five (5) categories, Current Solid Waste Management Conditions, Implementation of RA 9003 Section 20-21, Support to RA 9275 or the Clean Water Act, Support to RA 8749 or the Clean Air Act, Support to RA 6969 or the Toxic Substances and Hazardous and Nuclear Waste Control Act, and ESWM Innovations/Acquisition of Equipment.

The actual field validation was conducted by random sampling and interviews with households, schools, and business establishments regarding their solid waste management, this is with the assistance from the Municipal ENRO. After the assessment of documents, an exit conference was conducted to every barangay to convey its officials on the initial results. Comments, observations, and recommendations were given by the Board of Evaluators.

On August 29, 2024, the Board of Evaluators, together with For. Geronimo P. Cabaccan, Jr. ENR Officer/Head Secretariat, conducted an exit conference to discuss the result of the search and their thoughts and insights about the evaluation result. It was agreed that there would be a final evaluation of the top 5 entries to barangays coming from the municipalities of San Guillermo, Jones, Quirino, Burgos, and Aurora, Isabela to assess the sustainability of the barangay.

Based on the assessment and final discussion by the Board of Evaluators, the top five entry barangays were as follows:

**Table 17.** *List of Winners in the Search for the Most Environment-Friendly Barangays*

<b>PLACE</b>	<b>TOP FIVE WINNERS</b>
Champion	Brgy. San Juan, Quirino, Isabela
First Runner-up	Brgy. San Isidro, Jones, Isabela
Second Runner-up	Brgy. Dalig, Burgos, Isabela
Third Runner-up	Brgy. Sto. Niño, Aurora, Isabela
Fourth Runner-up	Brgy. San Mariano Norte, San Guillermo, Isabela

## Environment and Natural Resources Office

*Brgy. San Mariano Norte, San Guillermo, Isabela*



*Brgy. Culalabat, Cauayan City, Isabela*



*Brgy. San Isidro, Jones, Isabela*



*Brgy. Sagat, Cordon, Isabela*



*Brgy. Magsaysay, Naguilian, Isabela*



# Environment and Natural Resources Office

Brgy. Magsaysay, Naguilian, Isabela



Brgy. Sto. Niño, Aurora, Isabela



Brgy. La Paz, Cabatuan, Isabela



Brgy. District III, Gamu, Isabela



Brgy. Dalig, Burgos, Isabela





**II. Monitoring of LGU Ten-Year Ecological Solid Waste Management Plan**

Section 16 of RA 9003 requires that provinces, cities, and municipalities through its Local Solid Waste Management Boards (SWMBs), shall prepare their respective Ten-Year Solid Waste Management Plans (SWMPs) consistent with the National Solid Waste Management Framework. All SWMPs shall be subjected to the approval of the Commission and shall be reviewed and updated every year by the Provincial, City, or Municipal SWMBs.

For this year, four (4) municipalities were monitored in their implementation of Ten-Year Plan, focused in source reduction; segregation, recycling and composting; marketing and market development; alternative technologies for residual wastes; special and healthcare wastes; monitoring program; financial aspects; and waste diversion to achieved as stipulated under the implementing rules and regulations of RA 9003 that are aimed to minimize waste generation from all the types of wastes such as household, agricultural, industrial and special wastes and their Implementation Strategy on how their programs, projects and activities.



*Aurora, Isabela*



*Reina Mercedes, Isabela*



*Quirino, Isabela*



*San Manuel, Isabela*

Below is the status of the Provincial/City/Municipal Solid Waste Management Plans of all component cities and municipalities of the Province of Isabela. Data was based on the record of DENR-Environmental Management Bureau Region 02, as of December 31, 2024.

**Table 18.** *Status of Provincial/Municipal/City ESWM Plans in the Province of Isabela*

	<b>City/Municipality</b>	<b>Status</b>
1	<b>ALICIA</b>	Approved Plan
2	<b>ANGADANAN</b>	Approved Plan
3	<b>AURORA</b>	Approved Plan
4	<b>BENITO SOLIVEN</b>	Approved Plan

5	<b>BURGOS</b>	Approved Plan
6	<b>CABAGAN</b>	Approved Plan
7	<b>CABATUAN</b>	Approved Plan
8	<b>CAUAYAN CITY</b>	Endorsed to Central Office
9	<b>CORDON</b>	Approved Plan
10	<b>DELFIN ALBANO</b>	Approved Plan
11	<b>DINAPIGUE</b>	Approved Plan
12	<b>DIVILACAN</b>	Approved Plan
13	<b>ECHAGUE</b>	Approved Plan
14	<b>GAMU</b>	Approved Plan
15	<b>ILAGAN CITY</b>	Approved Plan
16	<b>JONES</b>	Approved Plan
17	<b>LUNA-Updating</b>	Approved Plan/for re-approval endorsed to DENR-EMB Region 02
18	<b>MACONACON</b>	Approved Plan
19	<b>MALLIG-Updating</b>	Approved Plan/for re-approval endorsed to DENR-EMB Region 2
20	<b>NAGUILIAN</b>	Approved Plan
21	<b>PALANAN</b>	Approved Plan
22	<b>QUEZON</b>	Approved Plan
23	<b>QUIRINO-Updating</b>	Approved Plan/for re-approval endorsed to Central Office
24	<b>RAMON</b>	Approved Plan
25	<b>REINA MERCEDES</b>	Approved Plan
26	<b>ROXAS-Updating</b>	Approved Plan
27	<b>SAN AGUSTIN</b>	Approved Plan
28	<b>SAN GUILLERMO</b>	Approved Plan waiting for NSWMC Resolution deliberated last Oct. 18, 2024
29	<b>SAN ISIDRO</b>	Approved Plan
30	<b>SAN MANUEL</b>	Approved Plan
31	<b>SAN MARIANO-Updating</b>	Approved Plan/for re-approval endorsed to Central Office
32	<b>SAN MATEO-Updating</b>	Approved Plan/for re-approval endorsed to Central Office
33	<b>SAN PABLO</b>	Approved Plan
34	<b>SANTA MARIA</b>	Approved Plan
35	<b>SANTO TOMAS</b>	Approved Plan
36	<b>TUMAUINI</b>	Approved Plan
	<b>ISABELA PROVINCE</b>	Approved Plan

Out of thirty-six (36) component LGUs of the Province, thirty-five (35) individual plans have been approved and two (1) under evaluation by NSWMC.

The table shows the status of Sanitary Landfill Facility (SLF) of the LGUs, based on actual monitoring as of November 31, 2024:

**Table 19.** Status on the Sanitary Landfill Facility (SLF) of LGUs.

	<b>City/Municipality</b>	<b>Status</b>
1	<b>ALICIA</b>	MOA with City Government of Cauayan
2	<b>ANGADANAN</b>	Using Residual Containment Area
3	<b>AURORA</b>	MOA with City Government of Cauayan
4	<b>BENITO SOLIVEN</b>	Operational Sanitary Landfill Facility
5	<b>BURGOS</b>	MOA with City Government of Cauayan
6	<b>CABAGAN</b>	Operational Sanitary Landfill Facility

7	<b>CABATUAN</b>	MOA with City Government of Cauayan
8	<b>CAUAYAN CITY</b>	Operational Sanitary Landfill Facility
9	<b>CORDON</b>	Operational Sanitary Landfill Facility
10	<b>DELFIN ALBANO</b>	Operational Sanitary Landfill Facility
11	<b>DINAPIGUE</b>	Operational Sanitary Landfill Facility
12	<b>DIVILACAN</b>	Using Residual Containment Area
13	<b>ECHAGUE</b>	Operational Sanitary Landfill Facility
14	<b>GAMU</b>	Using Residual Containment Area
15	<b>ILAGAN CITY</b>	Operational Sanitary Landfill Facility
16	<b>JONES</b>	Operational Sanitary Landfill Facility
17	<b>LUNA</b>	MOA with City Government of Cauayan
18	<b>MACONACON</b>	Using Residual Containment Area
19	<b>MALLIG</b>	Operational Sanitary Landfill Facility
20	<b>NAGUILIAN</b>	Operational Sanitary Landfill Facility
21	<b>PALANAN</b>	Using Residual Containment Area
22	<b>QUEZON</b>	Operational Sanitary Landfill Facility
23	<b>QUIRINO</b>	Operational Sanitary Landfill Facility
24	<b>RAMON</b>	Operational Sanitary Landfill Facility
25	<b>REINA MERCEDES</b>	MOA with City Government of Cauayan
26	<b>ROXAS</b>	Operational Sanitary Landfill Facility
27	<b>SAN AGUSTIN</b>	Using Residual Containment Area
28	<b>SAN GUILLERMO</b>	MOA with City Government of Cauayan
29	<b>SAN ISIDRO</b>	MOA with City Government of Cauayan
30	<b>SAN MANUEL</b>	MOA with City Government of Cauayan
31	<b>SAN MARIANO</b>	Operational Sanitary Landfill Facility
32	<b>SAN MATEO</b>	Operational Sanitary Landfill Facility
33	<b>SAN PABLO</b>	Operational Sanitary Landfill Facility
34	<b>SANTA MARIA</b>	Using Residual Containment Area
35	<b>SANTO TOMAS</b>	Using Residual Containment Area
36	<b>TUMAUNI</b>	Operational Sanitary Landfill Facility

Out of the thirty-six (36) component LGUs of the Province, the two (2) component cities and fourteen (17) municipalities have already established their SLFs; eight (8) municipalities are using Residual Containment Area; and nine (9) municipalities have their MOA with City Government of Cauayan.

**III. Material Recovery Facility (MRF) Operation Under the Provincial Ecology Center**

**a. Soil Enhancer Production through Vermicomposting**

Supervised by one (1) technical personnel and manned by three (3) Job Order workers, the vermicomposting produced, a total **Seventeen Thousand Seven Hundred (17,700) kilograms of organic fertilizer** with a remaining stock balance of **Twenty-nine Thousand Two Hundred Thirty-one (29,231) kilograms** as of December 31, 2024. A sum of **Twenty-Eight Thousand Fifty (28,050) kilograms were disposed** to various individuals and partner agencies, including the Office of the Provincial Agriculturist (OPA) which was utilized in Provincial Vegetable Nursery for maintaining the soil fertility of vegetable propagation. The rotary composter donated by the Department of Agriculture (DA) was utilized and fully operated to hasten the decomposition of the soil and restore the inherent fertility of the degraded soil. The collection of organic materials is continuously being undertaken to

ensure a sustained supply of compost materials as substrates for the worms (African Night Crawler). Furthermore, a vegetable garden was established at the back of ENRO utilizing soil enhancers produced at the vermicomposting facility.

*Operations and Activities of Soil Enhancer Production thru Vermicomposting and Rotary Composter.*



*Establishment and development of organic vegetable garden at the back of ENR Office utilizing the produced soil enhancer*



**b. Production of Green Charcoal**

One of the activities undertaken by the Job Order (JO) workers manning the MRF under the Provincial Ecology Center is repurposing discarded office files, newspapers, and other paper wastes. Through this process, the office generated **173 kilograms** of briquettes, an eco-friendly alternative fuel for everyday house chores such as cooking and heating water.

*Production of Green Charcoal Briquettes*



**c. Residual Containment Area (RCA) Operation located at the back of the ENR Office**

To enhance waste management and ensure compliance with Republic Act No. 9003, the office conducted a briefing on Proper Waste Management Segregation on February 16, 2024, at the Provincial Ecology Center. The session covered waste segregation principles, clarified waste categories, and emphasized the role of utility workers in maintaining a sustainable workplace. This complies with **Executive Order No. 28** and **Memorandum No. 13**, series of 2024, which mandate waste segregation across the Provincial Government of Isabela; the ENRO has strictly enforced solid waste management practices in various offices, departments, establishments, and provincially operated hospitals.

The collected wastes from the various offices of the PGI and other establishments within the capitol compound were classified and sorted into biodegradable, recyclable, residual, and hazardous. Technical personnel under EMD and JO workers weighed the segregated waste for proper recording. All residual waste collected are transported by the Provincial General Services Office (PGSO) assigned personnel to the Sanitary Landfill Facility (SLF) of the City of Ilagan. All recyclable and hazardous waste are stored at the MRF, while biodegradable wastes are composted in the composting heap.

**Table 20.** 2024 Recorded Solid Waste Data from the different offices of the Provincial Government of Isabela and other establishments within the Capitol Compound.

OFFICES OF THE PGI AND OTHER ESTABLISHMENTS				
RESIDUAL	BIODEGRADABLE	RECYCLABLE		HAZARDOUS
14,898.79	22,919.89	<i>Plastic Bottles</i>	1,767.63	791.50
		<i>Paper</i>	712.62	
		<i>Carton</i>	518.64	
		<i>Glass Bottles</i>	276.50	
		<i>Tin Cans</i>	108.69	
		<i>Spoon and Fork</i>	266.10	
<b>SUB TOTAL</b>		<b>42,260.36 kgs</b>		

PROVINCIALY-OPERATED HOSPITALS			
RESIDUAL	BIODEGRADABLE	RECYCLABLE	HAZARDOUS
27,935.39	27,935.39	22,882.12	20,772.27
<b>SUB TOTAL</b>	<b>98,485.22 kgs</b>		
<b>GRAND TOTAL</b>	<b>140,745.58 kgs</b>		

*Sorting and segregation of wastes at the Residual Containment Area (RCA) and Material Recovery Facility (MRF)*



**IV. Monitoring of Waste Disposal Facilities (Sanitary Landfill Facility (SLF), Residual Containment Area (RCA), and Material Recovery Facility (MRF))**

Pursuant to the provision of the Local Government Code (RA No. 7160) and Ecological Solid Waste Management Act of 2000 (RA 9003), LGUs are mandated as the primary responsible bodies for the implementation and enforcement of ecological solid waste management system within their respective jurisdiction. Therefore, the Provincial Government of Isabela through the Environment and Natural Resources Office is monitoring the waste disposal and solid waste management systems of Municipal and City LGUs.

The following were the sites monitored:

**1. Ramon, Isabela Sanitary Landfill Facility (February 14, 2024)**

**Findings and Observations:**

- The SLF accommodates residual waste disposal with other LGUs with a signed MOA.
- The DENR donated a rotary composter, which was not functional during the inspection.
- There are only two (2) dump trucks for waste collection, which collect waste from all barangays.
- Two (2) drums were inside the MRF as temporary storage for hazardous waste.

**Remarks and Recommendations:**

- Update waste record book per waste classification.
- Transfer hazardous waste from the storage drum to the septic vault.
- Transfer biodegradable waste inside the cell to a separate area.

*Ramon, Isabela SLF at Brgy. San Miguel, Ramon, Isabela*



**2. San Mateo, Isabela Sanitary Landfill Facility (February 14, 2024)**

**Findings and Observations:**

- Flies in the area are noticeable due to nearby poultry.
- Fences are covered with tall grasses and vines upon inspection.
- Donated machines such as rotary composters by the DENR-EMB are not functional.

**Remarks and Recommendations:**

- Establish a composting facility for biodegradable wastes to soil conditioners/enhancers.
- Maintain the operation of the Municipal MRF Buy-Back Center for waste diversion initiatives.

*San Mateo, Isabela SLF at Brgy. Marasat Pequeño, San Mateo, Isabela*



**3. Tumauini, Isabela Sanitary Landfill Facility (February 14, 2024)**

**Findings and Observations:**

- Mixed wastes and hazardous wastes were disposed of in the cell.
- Upon inspection, animals like cows, dogs, and goats were observed inside the SLF.
- The cell was full due to improper waste disposal.
- The biodegradable composting and brick-making building contains machines such as a rotary composter, bio waste shredder, plastic shredder, conveyor, pulverizer, and mixer.
- The sorting area was not functional.



- RCA has become a barn for goats.
- Hazardous waste used in WACS was placed in sacks and piled in front of the MRF.
- There are composting beds for biodegradable wastes.
- Three (3) segregators were assigned in the area

*Tumauni SLF at Brgy. Namnama, Tumauni, Isabela*



**Remarks and Recommendations:**

- Implement and enforce R.A 9003, particularly Section 21, "Mandatory Segregation of Waste."
- Conduct Information, Education, and Communication (IEC) Campaigns consistently in all barangays, particularly on proper waste segregation and disposal.
- Ensure animals are not allowed inside the SLF.
- Records must be organized to determine the weight generated per waste classification.

**4. Cabagan, Isabela Sanitary Landfill Facility (February 14, 2024)**

**Findings and Observations:**

- Mixed wastes were disposed of and directly sorted in the cell.
- CCTV cameras were installed in the area.
- MENRO staff are responsible for managing the SLF.
- There are tall grasses along the way to the leachate pond.

**Remarks and Recommendations:**

- Strictly implement the "No segregation, No collection" policy.
- Conduct Information, Education, and Communication (IEC) Campaigns consistently in all barangays, particularly on proper waste segregation and disposal.
- Records must be organized to determine the weight generated per waste classification.

*Cabagan SLF at Brgy. Cansan, Cabagan, Isabela*



**5. Naguilian, Isabela Sanitary Landfill Facility (March 13, 2024)**

**Findings and observations**

- The hazardous vault was labeled correctly.
- Monthly records of waste disposal were maintained.
- The vermicomposting bed was functional and was mainly used for regular composting.

- The six segregators at the facility receive a monthly incentive of P2,000.00, in addition to the earnings from selling recyclable waste to local junkshops.
- Barangays were observed to dispose of waste at the SLF on Sundays to avoid inspection.
- The majority of mixed wastes were dumped outside its designated cells.
- The donated composting equipment, including a rotary composter and shredder, was not utilized.
- Biodegradable materials such as twigs and tree branches were improperly disposed of within the cells.
- Some segregators collect recyclable materials from the mixed wastes outside the cells.
- The responsibility for the entire implementation of ESWM lies solely with the MENRO.

**Remarks and recommendations:**

- Barangay waste collectors must strictly follow the garbage collection schedule for proper disposal.
- Only residual wastes must be disposed of inside the cell.
- Utilized the donated composting equipment to reduce waste disposal.
- Collection of mixed waste must be strictly prohibited.



*Naguilian SLF at Brgy. San Manuel, Naguilian, Isabela*

**6. City of Ilagan, Isabela Sanitary Landfill Facility (March 13, 2024)**

**Findings and observations:**

- The facility prominently displays road signs, safety instructions, ordinances, and resolutions.
- Billboards were used effectively for public notifications and reminders.
- A container van was designated for treating hazardous and special wastes.
- The SLF's surroundings were adorned with a variety of trees, including both forest and fruit trees.
- Biodegradable waste collected was processed into soil conditioner or enhancer.

- The concrete square compost pit was empty.
- Mixed wastes were dumped into the cell.
- Some segregators collect recyclable wastes within the cell.

**Remarks and recommendations:**

- Strictly enforce various ordinances on waste segregation.
- Biodegradable waste collected from markets should be utilized in the vermicomposting facility for soil enhancer production.
- Implement an organized waste segregation and disposal procedure to avoid dumping mixed wastes in the cell.
- The MRF should be utilized for the final sorting of solid wastes prior to their disposal in the cell.

*City of Ilagan SLF located at Brgy. Sta. Catalina, City of Ilagan, Isabela*



**7. Mallig, Isabela Sanitary Landfill Facility (April 11, 2024)**

**Findings and Observations:**

- The area is surrounded by trees.
- Half of the cell was already covered with soil on the inspection date.
- Recyclable wastes collected like plastic bottles and carton boxes are sold to junkshops.
- The MRF was not utilized.

- Bottles were placed beside the MRF.
- The sorting area was not utilized for the final sorting and segregation of wastes.
- Mixed waste was observed in the cell. Busted bulbs, batteries, and other hazardous waste were disposed of in the cell.

**Remarks and Recommendations:**

- Sustain positive observations.
- Strictly implement the “No segregation, No collection” policy.
- Utilize the sorting area for the final segregation of wastes before their disposal in the cell.
- Hazardous waste must be properly disposed of in the septic vault.
- Bottles must be placed inside the MRF.
- The ECC billboard must be displayed in the SLF.



*Mallig SLF located at Brgy. Manano, Mallig, Isabela*

**8. Delfin Albano, Isabela Sanitary Landfill Facility (April 11, 2024)**

**Findings and Observations:**

- The area is surrounded by forest and fruit-bearing trees.
- Crushed bottles were utilized for the production of bricks.
- One (1) caretaker was assigned to the area.
- Donated composting equipment like rotary composter was not utilized.
- Mixed wastes are directly dumped into the cell.
- Biodegradable wastes were disposed of in the hazardous vault.
- The record book was not updated.

**Remarks and Recommendations:**

- Sustain positive observations.
- Strictly implement the “No segregation, No collection” policy.
- Utilize the sorting area to avoid the disposal of mixed waste in the cell.
- Only residual and hazardous waste should be collected to prevent mixed waste in the SLF.
- Avoid disposal of biodegradable wastes in the hazardous vault.
- Utilize the donated composting equipment to reduce waste.
- The record book must be updated.
- The ECC billboard must be visibly displayed at the entrance of the SLF.



*Delfin Albano SLF at Brgy. Carmencita, Delfin Albano, Isabela*

**9. Roxas, Isabela Sanitary Landfill Facility (April 24, 2024)**

**Findings and Observations:**

- All the equipment was functional except for the backhoe.
- There was an Eco-Park and SLF Nursery in the area.
- The water used in the area was sourced from the LGU Roxas Rescue Operation and Bureau of Fire Protection, although a pump well is under construction.
- Plastic bottles and used oil were utilized to produce Eco-Bricks.
- Mixed wastes were scattered within the boundaries of the cell.
- Hazardous wastes like hospital wastes were observed in the cell upon inspection.

**Remarks and Recommendations:**

- Strictly implement the “No segregation, No collection” policy.
- Utilize the composting area for biodegradable wastes only.
- Maintain Eco-Park and SLF Nursery.
- Install an insulated cover for the hazardous vault.
- The SLF must have a separate administrative building.
- The leachate pond must undergo continuous treatment.
- Plant more trees in the parking area.
- ECC must be posted at the entrance of the SLF.



*Roxas SLF at Brgy. San Placido, Roxas, Isabela*

**10. Quezon, Isabela Sanitary Landfill Facility (April 24, 2024)**

**Findings and Observations:**

- Rubber tires and plastic containers were in the cell.
- Inadequate heavy equipment

**Remarks and Recommendations:**

- Construct a compost heap for the biodegradable waste.
- Utilize the vermicomposting area for the production of organic fertilizer.
- Leachate pond must have treatment.
- An organized MRF and SLF cell is highly encouraged.



Quezon SLF at Brgy. Santos, Quezon, Isabela

**11. Palanan, Isabela Residual Containment Area (May 1, 2024)**

**Findings and observations:**

- Waste collection was scheduled every last Friday of the month at the designated collection point.
- The MRF was organized per waste classification.
- PET bottles were distributed to sari-sari stores for free and used as cooking oil containers.
- Biodegradable waste was smoothly shredded for easy decomposition.
- Produced soil enhancers were utilized for fruit tree seedling production and vegetable gardens.
- Juice tetra packs were used as alternative potting bags for waste diversion.
- Donated rotary composter by the DENR-EMB is not utilized.

**Recommendations:**

- Strictly implement and enforce the no-collection policy of mixed wastes.
- Put signages in the sorting area.
- Update and complete the details of the waste disposal logbook.



Palanan Temporary Residual Containment





Palanan RCA at Brgy. Dicabisagan West, Palanan, Isabela

## 12. Divilacan Sanitary Landfill/Residual Containment Area (May 2, 2024)

### Findings and observations:

- MRF was already full upon monitoring due to the accumulated volume of plastic bottles.
- Plastic bottles were shredded to save space in the MRF.
- Plastic cups and lids were segregated from the body of plastic bottles.
- Biodegradable waste was shredded for easy decomposition.
- Produced soil enhancers were utilized in seedling production.

**Recommendations:**

- The construction of the SLF should be completed as soon as possible.
- Frequently update solid waste disposal logbook.

*Divilacan, Isabela Disposal Facility at Dicambangan, Divilacan, Isabela*



**13. Maconacon Residual Containment Area (May 3, 2024)**

**Findings and observations:**

- Waste segregation was properly practiced in schools and barangays.

- Barangays are strictly advised to deliver waste on schedule at designated collection points.
- "Aragan," a kind of seaweed, was utilized as an organic material for organic vegetable production.
- Disposal diapers were used as natural organic to lessen the amount of residual waste in the RCA.
- All Pantawid Pamilyang Pilipino Program (4Ps) members conduct clean-up drives on Sundays.

**Recommendations:**

- Create an ordinance and penalize violators of waste burning.
- Start the construction phase of the SLF.
- There should be a creation of a MENR Officer with technical staff.

*Maconacon, Isabela Disposal Facility at Brgy. Malasin, Maconacon, Isabela*



**14. Dinapigue, Isabela Sanitary Landfill Facility (June 1, 2024)**

**Findings and observations:**

- Biodegradable wastes surround the SLF's cell, including coconut leaves, husks, and garden waste.
- There was no proper storage for the pulverized glass bottles.
- No unpleasant odors were present within the vicinity.

**Recommendations:**

- Maintain orderliness and cleanliness within the vicinity of the SLF, prioritizing the SLF cell, drainage area, and MRF for safety and efficient disposal.
- Place detailed signage, including the Environmental Compliance Certificate (ECC) with the SLF's geographical coordinates, at the rear entrance of the SLF. While not mandatory, it is recommended that signage include the time and schedule of collection, as well as the procedures for SLF operation.
- Install signages along the highway indicating Dinapigue Sanitary Landfill Facility and distance markers.
- Clean the wild grass near the leachate sedimentation tank, and check if the last sedimentation tank is leaking or overflowing. If necessary, take appropriate remedial action.
- Disinfection treatment of the leachate pond with chlorine is advised. Gather baseline data from DENR-EMB R02 to determine the minimum chemical concentration per cubic meter of leachate (wastewater) generated.
- Construct a bed/storage area for pulverized glass bottles for safety purposes.
- Coordinate with the Municipal Engineer's Office of Dinapigue for a possible extension and clean-up within the vicinity to accommodate dump trucks directly disposing of solid waste collected in the cell.

*Dinapigue SLF at Brgy. Digumased, Dinapigue, Isabela*



**15. Echague, Isabela Sanitary Landfill Facility (July 3, 2024)**

**Findings and Observations:**

- A waste pick-up point was established at Barangay Narra for all forest region barangays and waste collection is scheduled every first and third Thursday of the month at 10:30 a.m.
- Barangays can transport residual waste straight to the SLF.
- No ECC billboard was installed at the rear entrance of the SLF, but the installation is ongoing.

- A negligible quantity of mixed waste was seen inside the cell.
- Some equipment donated by the DENR-EMB was not functional.
- Enzymes were poured and mixed into the leachate pond for treatment.
- Pulverized glass bottles were incorporated into the construction of the bahay kubo in the facility to minimize the number of glass bottles stored in the MRF.
- Tires collected were utilized to beautify the SLF.

**Remarks and Recommendations:**

- Sustain positive observations and continue the implementation of good practices.
- Install ECC billboard.
- Install clear and informative signage in the parking areas, active cells, and sorting zones.
- The pathway to the leachate pond should be accessible.
- Establish vermicomposting to facilitate easy decomposition of biodegradable wastes.
- Utilize the space of the cell upon waste disposal.
- The leachate pond must be treated by physical, chemical, biological, and disinfection sequences.
- Submit a copy of enzyme properties and composition for further study and reference to this office.
- Barangay waste collectors must strictly follow the garbage collection schedule for proper disposal.



**16. Jones, Isabela Sanitary Landfill Facility (July 3, 2024)**

**Findings and Observations:**

- Residual waste was disposed of in the cell.
- The area has no perimeter fence, but a budget was allocated for CY 2025.
- The rotary composter donated by the DENR-EMB was used for organic fertilizer production.
- Twelve (12) personnel from the MENR Office were assigned to maintain the SLF in a rotating shift schedule.
- Waste collection was scheduled daily at the public market, once a week in urban barangays, and once a month in rural barangays.
- Damp paper, cartons, coconut husk, and other biodegradable waste were stacked up at the side of the cell.
- Tires collected were donated to various barangays for beautification and as part of the waste diversion program.

**Remarks and Recommendations:**

- Maintain the implementation of good practices.
- Record biodegradable waste transported to the SLF and processed as organic fertilizer.
- Establish a compost heap for biodegradable waste.
- Align the gas vent upwards to allow the disposal of methane gas into the atmosphere.
- Leachate pond must be properly treated, starting with planning physical, chemical, biological, and disinfection sequence of procedures.
- Enclose SLF with a perimeter fence to prevent unauthorized persons from entering the facility.



*Jones SLF at Brgy. Fugu, Jones, Isabela*

**17. San Pablo, Isabela Sanitary Landfill Facility (July 4, 2024)**

**Findings and Observations:**

- The surroundings were clean.
- All bottles were placed in the sacks and properly piled in the MRF.
- Vegetables like lady's finger and eggplant were planted in the area.
- Dried grasses, cartons, and other biodegradable waste were dumped in the cell.
- Lack of signages.
- Cornfields surround the facility.
- An open dumpsite was observed at Sitio Tupa, Barangay San Vicente, San Pablo, near Tupa River.

**Remarks and Recommendations:**

- Sustain positive observations.
- Impose a policy on "No Collection of Mixed Wastes."
- Refrain disposal of mixed wastes in the cell.
- Install signages or billboards, particularly on safety measures, ECC, active cells, hazardous/septic vaults, and other signages.
- Construct composting beds for biodegradable wastes.
- Utilize the sorting area for the final segregation of wastes before their disposal in the cell.
- Plant more forest trees in the area.
- Secure the area by constructing perimeter fences.
- Conduct a cleanup drive along Tupa River.

*San Pablo SLF at Brgy. Annanuman, San Pablo, Isabela*



**18. San Mariano, Isabela Sanitary Landfill Facility (July 10, 2024)**

**Findings and Observations:**

- Forest trees and dragon fruits were planted near the cell.
- Trees were labeled with their local, family, and scientific names.
- All machines are operational except for the plastic molder machine. A generator set is also available for electricity backup.
- The admin office and surroundings were clean and well-maintained.
- Barb wires were used as a perimeter fence.
- A new sorting facility was under construction.
- Treatment (D-Stroy) was sprayed in the cell to eliminate foul smell.
- The ECC signage was not installed.
- Decomposing bins were located in the MRF.
- There were no records for soil enhancer production.
- The record book for waste has been updated but was not detailed.
- A pressurized water pump was installed for a water source.

**Remarks and Recommendations:**

- Record received residual and hazardous wastes and produced soil enhancers correctly.
- Install ECC and safety signages.
- Maintain the cleanliness of SLF surroundings.
- There should be a proper area for decomposing bins.

*San Mariano SLF at Brgy. Palutan, San Mariano, Isabela*





**19. Benito Soliven, Soliven Sanitary Landfill Facility (July 10, 2024)**

**Findings and Observations:**

- There was a plan to establish an Eco-Park.
- Residual waste was used as fillers for plastic bottles for constructing comfort rooms and wall sinks.
- Wastes were not properly dumped inside the cell.
- Wastes were scattered in the vicinities of the SLF.
- The construction of the perimeter fence was not yet complete.
- The hazardous vault was not functional.

**Remarks and Recommendations:**

- Organize and clean the surroundings of the SLF regularly.
- Segregate residual from recyclable wastes.
- Regularly record soil enhancer production and waste disposal.
- Monitor dump trucks that unload waste in the facility to prevent the collection of unsegregated waste.
- Install a net around the cell to avoid waste from scattering caused by strong wind.
- Complete the construction of the perimeter fence.
- Utilized the hazardous vault properly.



*Benito Soliven SLF at Brgy. Danipa, Benito Soliven, Isabela*

**20. Sta. Maria, Isabela Residual Containment Area (August 2, 2024)**

**Findings and observations:**

- Mixed wastes were observed in the area upon inspection.
- No record book was shown during the inspection.
- Chicken waste was illegally disposed of by the private individual to the RCA, which caused a pungent smell.

- The MRF building was not properly organized.
- Grassy surroundings.
- Lack of signages.

**Recommendations:**

- Clean the surroundings regularly.
- Construct a compost heap or composting bed for biodegradable wastes.
- Segregate residual wastes from recyclable wastes.
- Organize the MRF building properly.
- Install safety and road signages along the RCA's road.
- The record book should be placed in the RCA, and waste disposal should be recorded regularly.
- Report private individuals who illegally disposed of waste in the RCA to the Mayor's Office.
- A treatment should be sprayed in the area to eliminate foul odor.
- Implement and enforce RA 9003, Section 21, Mandatory Segregation of Solid Wastes.

The proposed SLF was already in Phase II of construction, and the road to the proposed area was already concreted.

*Sta. Maria SLF at Brgy. Villabuena, Sta. Maria, Isabela*



**21. Sto. Tomas, Isabela Residual Containment Area (August 2, 2024)**

**Findings and observations:**

- The surroundings were clean.
- RCA has recyclable wastes.
- No record book was shown on the date of monitoring and inspection.

- Agricultural machines and equipment, such as a seeding machine (seeder), grass cutter, and sprayer, were inside the RCA.
- Lack of signages.
- The RCA was not properly utilized.
- Some of the hazardous wastes were disposed of to the RCA.

**Recommendations:**

- Construct MRF for recyclable wastes.
- Maintain the cleanliness of the surroundings.
- Recyclable wastes should not be placed in the RCA.
- Install signages.
- The caretaker of RCA should manage the record book.
- The RCA should be utilized properly.
- Ensure the waste collection schedule is visible at the RCA.
- Implement and enforce RA 9003, Section 21, Mandatory Segregation of Solid Wastes.
- Conduct an IEC Campaign for all barangays on RA 9003, also known as the Solid Waste Management Act of 2000.

*Sto. Tomas RCA at Brgy. Baleleng, Sto. Tomas, Isabela*



**22. San Guillermo, Isabela Residual Containment Area (August 28, 2024)**

**Findings and Observations:**

- Pulverized glass bottles were used to construct RCA to minimize glass bottles in the MRF.
- Continuous production of Eco-bricks.

- Mixed wastes were observed in the RCA but were segregated before disposal at Cauayan City SLF.
- The caretakers of RCA sell recyclable wastes, which served as their incentives in addition to their monthly salary.
- LGU does not collect waste from barangays located in remote areas.
- The record book was complete and updated.
- Two barangays were requesting waste collection from the MENR Office every month.

**Recommendations:**

- Maintain the cleanliness of the surroundings.
- Ensure the waste collection schedule is deemed visible at the RCA.
- Always check and update the record book.
- Barangays in remote areas should use the PGI's donated dump truck to transport waste to the Municipal RCA.

*San Guillermo RCA at Brgy. Nakar, San Guillermo, Isabela*



**23. Angadanan, Isabela Residual Containment Area (August 28, 2024)**

**Findings and Observations:**

- There's a production of eco-bricks made out of crashed bottles mixed with cement and gravel, but it was discontinued due to a lack of manpower.
- Recyclable waste collected was sold to junkshops.

- Mixed and scattered wastes were observed in the RCA.
- The RCA was already full, and other collected wastes were placed in sacks.
- Lack of signages.
- No record book was presented during the inspection.
- Lack of caretakers in the RCA.
- Equipment such as bio-composter and bottle crusher were not functional.

**Recommendations:**

- Sustained positive observations and continue the implementation of good practices.
- Maintain the cleanliness of the RCA's surroundings.
- Install signages on the road going to RCA, parking, and sorting areas.
- Establish vermicomposting to facilitate the decomposition of biodegradable wastes.
- Barangay waste collectors must strictly follow the garbage collection schedule for proper disposal.
- The RCA's caretaker must manage the record book.
- The RCA must be utilized properly.
- The waste collection schedule must be visible at the RCA.



**24. Alicia, Isabela Residual Containment Area (August 29, 2024)**

**Findings and Observations:**

- The municipality has entered a MOA with LGU-Cauayan SLF for disposal of residual waste.
- The waste collection was scheduled once a week, from Mondays to Fridays.
- The construction of SLF was in Phase I, which was located at Brgy. Linglingay, Alicia, Isabela, and covers an area of approximately 1.5 hectares.

**25. Cauayan City, Isabela Sanitary Landfill Facility (August 29, 2024)**

**Findings and Observations:**

- Approximately nine (9) municipalities have entered into a MOA for waste disposal with the facility.
- Eco-bricks are produced from shredded plastic wrappers and crushed bottles mixed with cement, gravel, and sand.
- Good practices were observed, such as the 13th Palit Bigas Program CSDJR Part 3 and Wealth on Waste Cauayan.
- The SLF has a wastewater treatment facility that filters the water from the leachate pond, which is then used to water the facility's plants.
- The LGU is waiting for the permission to operate and discharge permit for the Engineered Material Recovery Facility (EMRF) issued by the Department of Environment and Natural Resources—Environmental Management Bureau (DENR-EMB). The EMRF is a specialized segregator machine that separates wastes without human intervention.
- Scattered and mixed wastes were observed near the cell.
- The liner of the cell and gas vent were both covered with waste.
- Collected tires were utilized to beautify the SLF.
- Donated equipment by the DENR-EMB was utilized properly.
- There was a decomposing area for biodegradable wastes.
- The old cell was turned into an Eco-Park.
- The cell is almost full.
- Lack of signages.

**Recommendations:**

- Sustain positive observations.
- Maintain the cleanliness of the surroundings.
- The liner and gas vents of the cell should be visible.
- Continue the implementation of good practices.
- The SLF caretaker should manage the record book.
- Install parking and ECC signages.
- Ensure the waste collection schedule is visible at the SLF's Admin building.

*Cauayan City SLF at Brgy. San Pablo, Cauayan City, Isabela*



**26. San Isidro, Isabela Residual Containment Area (October 29, 2024)**

**Findings and Recommendations:**

- Mixed wastes were observed inside the RCA.
- Waste in the RCA has been reduced compared to last year's monitoring (CY 2023).
- Construct a temporary facility for recyclable wastes.
- Segregate wastes per waste classification.
- Maintain the cleanliness of the RCA's surroundings.
- Waste disposal to Cauayan City SLF is scheduled once a week.

*San Isidro RCA at Brgy. Gomez, San Isidro, Isabela*



**27. San Agustin, Isabela Residual Containment Area (October 29, 2024)**

**Findings and Observations:**

- Mixed wastes were collected in every household.
- Scattered waste and tall grasses were observed upon monitoring in the RCA.
- Lack of MENRO staff.
- Lack of signage.
- No storage facility for recyclable wastes.
- The bottle/plastic shredder was not operational and is covered with waste inside the RCA.
- No record book was presented during the inspection.
- Waste collection is scheduled three times a week on Mondays, Wednesdays, and Fridays. Only three (3) barangays, including Public Market, are being serviced for waste collection, while the remaining barangays manage their waste segregation and disposal.
- The construction of the SLF located at Sitio San Juan, Brgy. Santos, San Agustin, Isabela were resumed last September 2024.



**Remarks and Recommendations:**

- Organize and clean the surroundings of RCA regularly.
- Segregate wastes per waste classification.
- The record book must be updated and readily available upon monitoring.
- Utilize the RCA building properly.
- Construct a storage facility for recyclable and hazardous wastes.
- Barangays located in remote areas are advised to transport their waste to the Municipal RCA using the dump truck donated by the PGI.



*San Agustin RCA at Brgy. Santos, San Agustin, Isabela*

**28. Burgos, Isabela Residual Containment Area (October 30, 2024)**

**Findings and Recommendations:**

- Scattered and mixed wastes were observed upon monitoring of the RCA.
- No record book was presented during the inspection.
- The RCA's building was not utilized.
- The RCA has an unpleasant smell.
- Segregate wastes per waste classification.
- Organize and clean the RCA's surroundings regularly.
- The old RCA was used as a segregation area before the final disposal to Cauayan City SLF.
- The waste collection schedule was 2-3 times a week, and the disposal schedule of residual waste to Cauayan SLF was twice a week. All barangays, including schools and public market, were serviced for waste collection.

- The newly constructed RCA facility was located at Brgy. San Miguel, Burgos, which is not yet operational, and has a plan to construct MRF beside it.

*Burgos RCA located at Brgy. San Antonino and San Miguel, Burgos, Isabela*



**29. Gamu, Isabela Residual Containment Area (October 30, 2024)**

**Remarks and Recommendations:**

- Strictly imposed Republic Act No. 9003, especially on waste segregation.
- Conduct IEC Campaign on Solid Waste Management.

Due to bad weather conditions during the inspection and monitoring schedule, the personnel of this office were not able to visit the site personally. Nevertheless, this office was informed about their plan to construct SLF at Brgy. Mabini, Gamu, which was already approved by DENR-EMB.

**30. Aurora, Isabela Residual Containment Area (November 6, 2024)**

**Findings and Observations:**

- The municipality has entered a MOA with Cauayan City SLF for waste disposal.
- RCA was located near residential areas but was not in use due to Cauayan City SLF's collect-and-dump policy.
- The area has visible signage and adequate fencing.

- Complies with waste segregation, containment, and handling practices as per RA 9003 requirements, but proper management must be taken.
- The RCA was repurposed as a recyclables and alternative technologies stockroom, not used as residual containment.



*Aurora RCA*

**31. San Manuel, Isabela Residual Containment Area (November 6, 2024)**

**Findings and Observations:**

- The municipality has entered a MOA with Cauayan City SLF for waste disposal.
- RCA was located near residential areas but was not in use due to Cauayan City SLF's collect-and-dump policy.
- The area has visible signage and adequate fencing.
- Complies with waste segregation, containment, and handling practices as per RA 9003 requirements, but proper management must be taken.
- The RCA was used as a stockroom for recyclables and alternative technologies, not used as residual containment.



*San Manuel RCA at Brgy. Eden, San Manuel, Isabela*

**32. Luna, Isabela Residual Containment Area (November 6, 2024)**

**Findings and Observations:**

- The municipality has entered a MOA with Cauayan City SLF for waste disposal.
- RCA was located near residential areas but was not in use due to Cauayan City SLF's collect-and-dump policy.

- The area has visible signage and adequate fencing.
- Complies with waste segregation, containment, and handling practices as per RA 9003 requirements, but proper management must be taken.
- RCA was used for fertilizer storage but can accommodate bulky residuals if necessary.



*Luna RCA*

**33. Cabatuan, Isabela Residual Containment Area (November 6, 2024)**

**Findings and Observations:**

- The municipality has entered a MOA with Cauayan City SLF for waste disposal.
- RCA was located near residential areas but was not in use due to Cauayan City SLF's collect-and-dump policy.
- The area has visible signage and adequate fencing.
- Complies with waste segregation, containment, and handling practices as per RA 9003 requirements, but proper management must be taken.
- There was MRF within the compound.



*Cabatuan RCA*

**34. Reina Mercedes, Isabela Residual Containment Area (November 6, 2024)**

**Findings and Observations:**

- The municipality has entered a MOA with Cauayan City SLF for waste disposal.

- The SLF was located away from residential areas. The waste collected was stored in RCA before being transported by Cauayan City haulers to the SLF. The area has visible signage and adequate fencing.
- Complies with waste segregation, containment, and handling practices as per RA 9003 requirements, but proper management must be taken.
- Operational for residual waste containment and collection.



*Reina Mercedes RCA at Brgy. Labinab Grande, Reina Mercedes, Isabela*

**35. Quirino, Isabela Sanitary Landfill Facility (November 28, 2024)**

**Findings and Observations:**

- Bottle crusher and plastic bottle pulverizer were utilized to produce bricks for pathways.
- Shredded biodegradable waste and vermicompost were used to produce forest and fruit tree seedlings, lessening waste in the SLF.
- The surroundings were clean and planted with forest and fruit trees.
- Vermicompost/soil enhancers were used in the nursery propagation.
- Special/hazardous wastes like WEE, pesticides, paints, and bulbs are placed in a vault.
- The donated composting equipment, like rotary composter, was not utilized.
- All collected residual wastes were placed in the big sacks before dumping into the cell.
- MRF was used as a collection point for every barangay.

**Remarks and Recommendations:**

- Sustain positive observations.
- Continue the construction of the perimeter fence to secure the area.
- Install signages, particularly safety signages and other signages needed.
- Conduct information, education, and communication (IEC) campaigns in all barangays, particularly on proper segregation and disposal of wastes.
- Enforcement of various ordinances on waste segregation.
- Utilize the donated composting equipment to reduce waste disposal.



Quirino SLF at Brgy. Villa Miguel, Quirino, Isabela

**36. Cordon, Isabela Sanitary Landfill Facility (November 29, 2024)**

**Findings and Observations:**

- The SLF covers a total land area of 1,0071 square meters, approximately 4.6 kilometers from the national highway. It has been operational since August 2024. A fund was allocated for the construction of the road to the SLF, which will commence in 2025.
- Surrounded by forest trees.
- Used tires were recycled for beautification.
- The road to the SLF was not concrete but accessible.
- Mixed wastes were improperly dumped beside the cell.
- Donated rotary composter and bio-waste shredder were not utilized.
- The front part of the cell was damaged due to heavy rain brought by the previous typhoons.
- There was a stockpile of glass bottles beside the cell.

**Remarks and Recommendations:**

- Sustain positive observations.
- Construct a compost heap for biodegradable wastes.
- Implement an organized waste segregation and disposal procedure to avoid dumping mixed wastes in the cell.
- Implement and enforce R.A 9003, Section 21 “Mandatory Segregation of Waste”
- Utilized the rotary composter and bio-waste shredder to minimize waste.
- Repair the damaged part of the cell to prevent leakage of water inside the cell.
- Glass bottles should be properly disposed of and recycled.



*Cordon SLF at Brgy. Capirpiriwan, Cordon, Isabela*

## **V. Healthcare Waste Management**

Under the provision of Executive Order No. 28, series of 2024, issued by the governor, all offices and hospitals must adhere to proper management of ecological solid waste and segregation of wastes within their premises.

The Provincial Government of Isabela, through this office, monitored Health Care Waste Management practices of Provincially-operated hospitals. Personnel from this office oversee the following hospitals to ensure compliance with solid waste management practices, including the proper handling and disposal of hazardous and infectious wastes:

### **1. Palanan Station Hospital at Barangay Centro West, Palanan, Isabela**

The hospital was monitored on May 1, 2024. Findings and recommendations were as follows:

- Provide additional trash bins for recyclable and non-recyclable materials with clear and proper labeling for proper waste segregation.
- Maintain cleanliness of rooms and hallways and continue the monitoring to for consistent results.
- Regularly update and maintain an organized waste disposal logbook, ensuring accurate records for waste tracking and reporting.
- Place clear and visible labels and signages in the MRF area to guide staff and visitors in proper waste sorting and handling.

*Palanan Station Hospital*



## 2. Echague District Hospital at Barangay Ipil, Echague, Isabela

The hospital was monitored on May 9, 2024. Findings and recommendations were as follows:

- Reduce the burning of dried leaves and grasses, and instead, adopt composting or other eco-friendly disposal methods.
- Assign a team to promptly review and complete the DENR-EMB requirements, ensuring compliance with environmental regulations.
- Implement strict waste segregation policy and provide labeled trash bins.
- Continue utilizing the closed septic vault, ensuring it is regularly inspected and complies with health and environmental regulations.
- Maintain cleanliness of rooms and hallways and continue the monitoring to for consistent results.
- Continue utilizing the separate area for special and infectious waste, ensuring it remains secured and organized.
- Mixed waste was observed, provide additional trash bins and inform staff and visitors on properly waste segregation.
- Waste collection is scheduled every Tuesday and Friday. Maintain coordination with the LGU to ensure timely collection, and manage waste storage efficiently between collection days.

*Echague District Hospital*



## 3. Cauayan District Hospital at Barangay District 1, Cauayan City, Isabela

The hospital was monitored on May 9, 2024. Findings and recommendations were as follows:

- Assign a team to promptly review and complete the DENR-EMB requirements, ensuring compliance with environmental regulations.
- Comprehensive training should be conducted for all personnel on waste segregation practices and their importance.
- Implement clear segregation protocols within the MRF and provide separate storage areas for infectious and hazardous wastes.
- Enforce strict waste segregation policies, provide additional training to personnel, and install labeled bins.
- Organize and monitor the MRF to ensure all waste is stored properly. Increase the frequency of waste collection if needed.
- Regularly update and maintain trash bin signages for visibility and clarity, especially to all staff and visitors.
- Coordinate with the LGU to ensure all collected waste is segregated and stored properly before pickup.



*Cauayan City District Hospital*



**4. Manuel A. Roxas District Hospital at Barangay San Antonio, Roxas, Isabela**

The hospital was monitored on May 9, 2024. Findings and recommendations were as follows:

- Assign a team to promptly review and complete the DENR-EMB requirements, ensuring compliance with environmental regulations.
- Enforce strict waste segregation policies, provide additional training to personnel to prevent mixed waste.
- Continue using the closed septic vault, but ensure it is regularly inspected and complies with health and environmental regulations.
- Maintain the proper labels of trash bins.
- MRF's doors and flooring needs repair for safety and functionality, and include clear, visible labels for waste segregation.

*Manuel A. Roxas District Hospital*



**5. San Mariano Community Hospital at Barangay Sta. Filomena, San Mariano, Isabela**

The hospital was monitored on May 9, 2024. Findings and recommendations were as follows:

- Assign a team to promptly review and complete the DENR-EMB requirements, ensuring compliance with environmental regulations.
- Use durable, properly labeled containers to securely store hazardous waste and prevent spillage or contamination. Alternatively, consider constructing a hazardous waste room.
- Enforce strict waste segregation policies to avoid mixed waste, provide additional training to personnel, and install properly labeled bins.
- Continue using the closed septic vault but ensure it is regularly inspected and complies with health and environmental regulations.

- Trash bins should be placed in each ward and rooms, maintained in good condition, and properly labeled. Add trash bins in strategic locations to encourage immediate segregation and reduce mixed waste.
- Keep the waste classification of each trash bins while ensuring that the labels are clear, prominent, and multilingual if necessary for better understanding.
- Repair the MRF door, guarantee the area is safe and functional, and install clear and visible labels for waste segregation.

*San Mariano Community Hospital*



**6. Gov. Faustino N. Dy, Sr. Memorial Hospital at Barangay Calamagui 2<sup>nd</sup>, City of Ilagan, Isabela**

The hospital was monitored on May 17, 2024. Findings and recommendations were as follows:

- Assign a team to promptly review and complete the DENR-EMB requirements, ensuring compliance with environmental regulations.
- Maintain cleanliness of rooms and hallways and continue the monitoring to ensure consistent results.
- Add trash bins with proper label in strategic locations to encourage immediate segregation and reduce mixed waste.
- Keep the waste classification of each trash bins while ensuring that the labels are clear and prominently displayed.
- Replace outdated labels with durable, clear ones, and repair the MRF door for safety and proper functionality.

*Gov. Faustino N. Dy Sr. Memorial Hospital*



**7. Milagros Albano District Hospital (MADH) at Barangay Ngarag, Cabagan, Isabela**

The hospital was monitored on May 22, 2024. Findings and recommendations were as follows:

- Assign a dedicated team to review and complete the DENR-EMB requirements promptly, ensuring compliance with environmental regulations.
- Establish clear guidelines for compostable items to inform all staff on proper waste classification and segregation, and place signs where compost is stored or piled.
- Create a specialized waste collection system for healthcare waste and train employees on the safe and proper disposal of hazardous materials.
- Maintain cleanliness of rooms and hallways and continue the monitoring to ensure consistent results.
- All types of waste, except for biodegradable waste, should be placed in the MRF area, and increase the collection frequency.
- Add labeled trash bins for waste segregation in appropriate areas of the hospital.

On February 14, 2024, issues arose regarding the disposal of residual and biodegradable wastes generated by the hospital at the City of Ilagan’s Sanitary Landfill Facility (SLF), as there was no prior MOA with the LGU. Following this, Ms. Grace Bauí, Administrative Officer IV of the hospital, informed that the Provincial General Services Office (PGSO) have been managing their waste disposal since 2018. As a result, it was decided that residual waste would henceforth be disposed of by the Municipal Environment and Natural Resources Office (MENRO) of Cabagan to Cabagan SLF.

*Milagros Albano District Hospital*



**VI. Ecosystems Management**

**a. Clean-Up Drive**

➤ **National Zero Waste Month**

The Environment and Natural Resources Office (ENRO), together with ISEP-TF Operatives, job order personnel, and utility workers, led a significant Information, Education, and Communication (IEC) campaign and clean-up drive on January 30, 2024, following the 2024 Bambanti Festival. This activity, spearheaded by the ENR Officer, For. Geronimo P. Cabaccan, Jr., and in collaboration with the DENR-EMB Region 2 led by Ms. Jailaine R. Siriban, Chief of PEMU-Isabela emphasized the importance of effective, efficient, and sustainable waste management practices.

Throughout the weeklong festival, the volume of mixed wastes generated reached substantial levels due to the influx of visitors. The clean-up drive resulted in the collection of:

**Table 21. Waste collected during the 2024 Bambanti Festival**

Biodegradable wastes	114. 50 kilograms
Recyclable wastes	267.13 kilograms
Special wastes	36.70 kilograms
Residual wastes	502.70 kilograms
<b>Total</b>	<b>921.03 kilograms</b>

Residual wastes were disposed at the Sanitary Landfill Facility (SLF) in Barangay Sta. Catalina, City of Ilagan, Isabela while recyclable wastes were stored temporarily at the Material Recovery Facility (MRF) for sorting and segregation. Biodegradable wastes were composted for use as soil enhancers.

Throughout the weeklong festival celebration, there was a remarkable volume of mixed wastes generated due to influx of visitors coming from the different places.



This observance aligns with the theme, “Sustainable Waste Management in Livable Communities” and the overarching goal of achieving Zero Waste to Philippine Waters by 2024, as mandated by Presidential Proclamation No. 760.



*Photos taken during the IEC campaign and clean-up drive in observance of National Zero Waste Month.*

➤ **Clean-Up Drive Commemorates World Water Day**

In celebration of World Water Day on March 22, 2024, ENRO spearheaded a clean-up drive at the Provincial Eco-Park swamp area. The event led by the ENR Officer, For. Geronimo P Cabaccan Jr., and participants in by ENRO personnel, ISEP-TF operatives, and job order service providers, found on removing overgrown water hyacinths.

World Water Day, themed, “Leveraging Water for Peace,” highlighted the role of water as a catalyst for sustainable development and peace-building. The clean-up drive reinforced the province’s commitment to preserving local ecosystems and fostering collective action for environmental conservation.



Photos showcasing ENRO personnel, Job Order service providers, and ISEP-TF operatives participating in the clean-up drive at the Provincial Eco-Park swamp area in celebration of World Water Day.

➤ **International Coastal Clean-up Day with IEC Campaign and Clean-up Drive**

In line with International Coastal Clean-Up Day on September 20, 2024, organized an Information, Education, and Communication (IEC) campaign and a cleanup drive at the Provincial Eco-Park. Activities focused on waste segregation and biodiversity conservation, promoting this year's theme, "Clean Seas for a Blue Economy."



Photos captured during the IEC activity held at the ENRO compound, attended by ISEP-TF members, Job Order service providers, and ENRO personnel, in celebration of International Coastal Cleanup

**b. Anti-Smoke Belching Campaign**

In coordination with partner agencies from the Department of Environment and Natural Resources-Environmental Management Bureau Region 02, Land Transportation Office-DOTr Region 02, and with the participation of LGU-MENROs, the Provincial Government of Isabela through the Environment and Natural Resources Office implemented the Anti-Smoke Belching Campaign through the conduct of random roadside testing of vehicles. Following the provisions of DENR-AO 2000-81 Rule XXXV: Roadside Inspection of Motor Vehicles and in support to the Philippine Clean Air Act of 1999 (Republic Act No. 8749), this activity forms part of the Provincial Government’s initiatives on climate change mitigation and adaptation programs; thereby reduce possible sources of air pollution within its territorial jurisdictions.

**Table 22.** *Conducted Anti-Smoke Belching Campaigns*

MUNICIPALITY	BARANGAY	COORDINATES	ROAD TYPE	DATE
Aurora	Sili	16.9848, 121.6410	National Highway	February 29, 2024
Cordon	Malapat	16.6908, 121.5210	National Highway	May 29, 2024
Cabagan	Ngarag	17.4231,121.7817	National Highway	August 15, 2024
Echague	San Juan	16.6344, 121.6658	Secondary Highway	November 26, 2024
Reina Mercedes	Napaccu Grande	16.9853, 121.7839	National Highway	December 17, 2024

The team conducted intermittent smoke tests on a variety of diesel-engine vehicles, including cars, trucks, jeepneys, and SUVs, along the national highway. The emissions were measured using an opacimeter machine purchased by the Provincial Government and calibrated according to the DENR-EMB II Regional Standards, as specified in the guidelines. The tests followed the outlines of DAO 2015-04, which determine emission standards based on the vehicle's year model.

In total, **one hundred fifty-three (153) diesel vehicles** underwent inspection and emission testing. Of these, **fifty-one (51) vehicles, accounting for 33%** of the total sample, emitted smoke that did not meet the required opacity levels. Owners of the non-compliant vehicles received citation tickets, and representatives from the LTO seized their licenses. These owners are required to pay fines for the suspended licenses, and their vehicles must pass the opacity standard to be reinstated.

*Joint Roadside Anti-Smoke Belching Campaign at National Highway,  
Brgy. Sili, Aurora, Isabela*



*Joint Roadside Anti-Smoke Belching Campaign at National Highway,  
Brgy. Malapat, Cordon, Isabela*





Joint Roadside Anti-Smoke Belching Campaign at National Highway, Brgy. Ngarag, Cabagan, Isabela



Joint Roadside Anti-Smoke Belching Campaign at Secondary Road, Brgy. San Juan, Echague, Isabela



*Joint Roadside Anti-Smoke Belching Campaign at National Road,  
Brgy. Napaccu Grande, Reina Mercedes, Isabela*



**c. Ambient Water Quality Monitoring and Management**

In coordination with the technical team from DENR-EMB Region 02, a joint water quality monitoring effort was conducted on the Abuan River on June 7, 2024, at Cabisera 10, City of Ilagan, Isabela. This monitoring was done to evaluate the current environmental status of the river following the recent opening of the Abuan River Adventure & Eco-Park on March 11, 2024, which serves as a tourist attraction for the City of Ilagan. The data collected is as follows:

**Table 23. Abuan River Data Baseline**

SAMPLING STATION NO.	SECTION	GEOGRAPHIC COORDINATES	DESCRIPTION	FINDINGS
1	Upstream	17°04'35"N/ 122°01'16"E	Approximately 0.700 km away from Abuan Bridge, Cabisera 10, City of Ilagan, Isabela	Boating, diving, and swimming spot (Recreational activities site)
2	Midstream	17°04'49"N/ 122°00'47"E	Approximately 0.080 km away from Abuan Bridge, Cabisera 10, City of Ilagan, Isabela	American Buffalo Bathing Site and Cloth Laundry Site
3	Downstream	17°05'10"N/ 122°00'06"E	Approximately 2.8 km away from the mouth of Pinacanauan de Ilagan River, Cabisera 10, City of Ilagan, Isabela	Charcoal Burning, Agricultural Land(cornfield), Quarry Operation and American Buffalo Bathing Site

The monitoring guidelines followed the Water Quality Monitoring Manual by the Environment Management Bureau (EMB). On-site water measurements were conducted using a portable Horiba U-50 series water checker, and sampling was performed according to the Standard Methods for the Examination of Water and Wastewater (SMEWW), 23rd Edition, and analyzed at the EMB Region 02 Environmental Laboratory located at RBB Nature Park and Wildlife Center, Baggayan Park, Regional Government Center, Carig Sur, Tuguegarao City. Following are the on-site and laboratory results.

**Table 24.** *Water Checker Result of Abuan River*

PARAMETERS	UNIT	SAMPLING STATION NO.		
		1	2	3
COND	mS/cm	0.082	0.08	0.08
DO	mg/L	8.6	7.48	7.23
ORP	mV	90	155	171
pH	-	8.4	8.12	7.78
TDS	g/L	0.053	0.052	0.052
TEMP	°C	29.62	29.44	28.99
TURB	NTU	13.4	13.5	20.4

Included Basic Parameter on DAO 2016-08

**Table 25.** *Environmental Laboratory Analysis Result of Abuan River*

PARAMETER	UNIT	SAMPLING POINT		
		1	2	3
<b>PHYSIO-CHEMICAL ANALYSIS</b>				
BOD5	mg/L	1	1	1
Chloride	mg/L	3	3	2
Color	TCU	<5	<5	<5
DO	mg/L	8	9	9
Nitrate as NO3-N	mg/L	0.07	0.02	0.02
pH	-	6.61	6.71	6.73
Phosphate as P	mg/L	0.029	0.022	0.029
Temperature	°C	19.4	19.5	19.1
TSS	mg/L	10	<3	8
<b>BACTERIOLOGICAL ANALYSIS</b>				
Fecal Coliform	MPN/100mL	940	790	790

*Joint Ambient Water Quality Monitoring and Management at Abuan River, Barangay Cabisera 10, City of Ilagan, Isabela*



This initiative is in support of the Republic Act No. 9275, Philippine Clean Water Act of 2004, and is designed to evaluate water quality based on the ten basic parameters identified in the *DAO 2016-08* and *DAO 2021-19* for Water Quality Guidelines and General Effluent Standards. Hitherto regarded as **Class C** water body, there has been a move made towards the enhancement of its classification to Class B water body to accommodate primary contact recreational activities. This entails the observation and analysis of water quality data over a period of one year on a monthly base. With the help of cooperation with the DENR-EMB and proper managing the water quality of the river could be enhanced which in return will benefit the environment, the community and the development of an ecotourism.

## VII. Monitoring of ESWM-Related PGI Executive Orders/Ordinance

To enhance the implementation of effective solid waste management in the Provincial Government of Isabela, Executive Order No. 28 and Memorandum No. 13 were issued in support of Republic Act No. 9003. As part of these programs, routine inspections, spot checks, and assessments are conducted in every office, department, establishment, and provincially-operated hospital to ensure compliance with environmental regulations.

### *Monitoring of ESWM-Related PGI Executive Orders/Ordinance within Provincial Compound*



## VIII. Provincial Solid Waste Management Board

The Provincial Solid Waste Management Board – Isabela held its regular quarterly meetings attended by members from different sectors, focused on the following agenda:

### **First Quarter**

1. Presentation of the Women on Waste (WOW) Program – A Potential Collaboration with the Women Sector.
2. Salient provisions of RA 8749 otherwise known as the Philippine Clean Air Act of 1999 with emphasis on Ambient Air Quality Monitoring.
3. Status of City/Municipal facilities and possible clustering of LGUs

### **Second Quarter**

1. Orientation on Greenhouse Gases Inventory for LGUs Wastes and Slaughter Houses
2. Updates on the submission of LGUs 10-year Ecological Solid Waste Management Plan and Status of Waste Disposal Facilities within the Province of Isabela.
3. Orientation on Bamboo Textile and Yarn Production Project at ISU-Cauayan Campus.
4. Orientation on Bamboo Textile and Yarn Production Project at ISU-Ilagan Campus

**Third Quarter**

1. Addressing Municipal Solid Waste: The Role of Gasification Technology in Sustainable Waste Management.
2. Proposed Waste-to-Energy (WTE) Project: An Orientation on Sustainable Waste Management Solutions.
3. Waste to Gold: Unlocking Value through Sustainable Waste Management.

**Fourth Quarter**

1. Overview on R.A 11898: An Act Institutionalizing the Extended Producer Responsibility on Plastic Packaging Waste, also known as the Extended Producer Responsibility (EPR) act of 2022.
2. Disaster Waste Management

*Joint Provincial/City/Municipal Ecological Solid Waste Management (P/C/M ESWM)  
1<sup>st</sup> Quarter Board Meeting.*



*Joint Provincial/City/Municipal Ecological Solid Waste Management (P/C/M ESWM)  
2nd Quarter Board Meeting.*



*Joint Provincial/City/Municipal Ecological Solid Waste Management (P/C/M ESWM)  
3rd Quarter Board Meeting.*



*Joint Provincial/City/Municipal Ecological Solid Waste Management (P/C/M ESWM)  
4th Quarter Board Meeting.*



**IX. Provision of Technical Assistance**

It is mandated by law that all locales must implement waste management policies and construct facilities for waste reduction and diversion. ENRO provided technical assistance to LGU aiding in the proper implementation of solid waste management and conducting seminars on RA 9003, the Ecological Solid Waste Management Act of 2000.

- **December 13, 2024:** Due to a series of typhoons affecting the Province of Isabela, the Local Government Unit (LGU) of San Isidro organized a seminar on the proper procedures for handling disaster waste. To provide valuable information and guidance on managing waste during and after a disaster, personnel from the Environment and Natural Resources Office (ENRO) were invited as resource speakers. Their insights aim to help mitigate the negative impact on the environment during disasters.

*Seminar/Orientation on Ecological Solid Waste Management Act of 2000 and other Environmental  
Laws at LGU-San Isidro, Isabela*





# MINERAL RESOURCES MANAGEMENT DIVISION



**MINERAL MANAGEMENT RESOURCES DIVISION**

***I. Processing and Issuance of Permits***

The ENR Office as the implementing arm of the Provincial Government of Isabela in ENR concerns, is tasked to received and process applications for small-scale mining, sand and gravel, quarry, guano, gemstone gathering and gratuitous permits and for industrial sand and gravel permits not exceeding five (5) hectares, under RA 7942 otherwise known as the Philippine Mining Act of 1995. Subject to the submission of complete requirements as mandated by RA 7942 and Provincial Ordinance No. 05, series of 2014, the Office is responsible in the conduct of field verification and evaluation of quarry areas to determine compliance of permit holders and/or operators to environmental laws, rules and regulations. Result of the field verification forms part of the permit application requirements prior to its endorsement to PMRB for deliberation. Through the Provincial Mining Regulatory Board (PMRB), Permit Applications are thoroughly reviewed and deliberated for approval. After which, the Board shall indorsed the applications to the Provincial Governor for his final action.

***a. Processing of Permit Applications***

For this year, the office received **Nineteen (19) Commercial Sand and Gravel (CSAG) Permit Applications** for the different quarry areas within the province. These applications has a corresponding administrative/processing fees collected by the Provincial Treasurer’s Office amounting to **Two Hundred Fifteen Thousand Two Hundred Seventy pesos (Php 215,270.00)** only.

**Table 26.** *List of Received Commercial Sand and Gravel Permit Applications*

	Name of Applicants	Quarry Site	Area (has)
001	Reynaldo G. Atuan, Jr.	San Rafael East, Sta. Maria, Isabela	5.00
002	May Joy M. Balisi	Baculud, City of Ilagan, Isabela	5.00
003	Rosalino U. Urandayan, Jr.	San Ignacio, City of Ilagan, Isabela	5.00
004	Edwin P. Uy	Banquero, Reina Mercedes, Isabela	5.00
005	NL Tagufa Gravel & Sand Rep. by Norman L. Tagufa	Annafunan, Tumauini, Isabela	5.00
006	Sheryl M. Go	Sto. Domingo, Jones, Isabela	4.14
007	Ernesto S. Albano	Dibuluan, Jones, Isabela	1.00
008	San Jose Calamagui Gravel & Sand Inc. Rep. by Isaac Hilario G. Pagauitan III	Calamagui East, Sta. Maria, Isabela	5.00
009	Lapogan Multi-Purpose Cooperative Rep. by Victoria S. Garcillan	Lapogan, Tumauini, Isabela	4.97
010	Royce Feb V. Lungan	Maluno Norte, Benito Soliven, Isabela	3.00

011	Glenn Moore Angelo E. Caramancion	Disimpit, Jones, Isabela	5.00
012	Elvin M. Ramos	Casibarag Norte, Cabagan, Isabela	5.00
013	Accelerated Metal Technology & Construction Inc. rep. by Engr. Antonio M. Tumolva	Guibang & District II, Gamu, Isabela	4.98
014	Jun P. Bulos	Furao, Gamu, Isabela	5.00
015	Maryjane P. Samus	Mozzozzin Norte, Sta. Maria, Isabela	5.00
016	Dutch Anne V. Uy	Annafunan, Tumauni, Isabela	2.00
017	CR Domingo Construction & Development, Inc. rep. by Engr. Rolando Y. Domingo	San Roque, San Mateo, Isabela	1.17
018	Rofelin M. Dela Cruz	Sinaoangan Sur, San Agustin	5.00
019	Joel L. Garcia	Antagan 2 <sup>nd</sup> , Tumauni, Isabela	4.64

**b. Site Verification and Inspection of Applied Quarry Area**

This year, all **nineteen (19)** areas applied for Commercial Sand and Gravel Permit were inspected and verified. Personnel of this Office validated the technical descriptions as stated in the survey map, at the same time the condition of the area that may be affected by the extraction.

In general, all applied areas are rich in sand and gravel deposits, thus suitable and recommended for extraction of sand and gravel. For most of the areas inspected, ongoing extraction activities were observed during the inspection conducted at the main river bed and build-up portion. Some areas have government infrastructures established within the one-kilometer radius, mostly newly-constructed river flood control projects.

**Table 27. Specific Findings of Applied Quarry Areas**

Applicant	Area Applied	Summary of Field Verification Report
1. Reynaldo G. Atuan, Jr.	4.00 hectares San Rafael East, Sta. Maria, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Cagayan River, dried river bed, and agricultural land (corn);</li> <li>✓ No infrastructure within the 1 kilometer radius in the vicinity;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for sand and gravel extraction.</li> </ul>
2. May Joy M. Balisi	5.00 hectares Baculud, City of Ilagan, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Cagayan River, Pinacanauan River and dried river bed;</li> <li>✓ Over-flow bridge (Baculud-Marana Bridge) within 1 kilometer radius (upstream);</li> </ul>

		<ul style="list-style-type: none"> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for extraction subject to clearance from DPWH;</li> </ul>
3. Rosalino U. Urandayan, Jr.	4.99 hectares San Ignacio, City of Ilagan, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by Cagayan River, dried river bed, and agricultural land (corn);</li> <li>✓ No infrastructure in the vicinity;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for sand and gravel extraction.</li> </ul>
4. Edwin P. Uy	5.00 hectares Banquero, Reina Mercedes, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by Magat River, dried river bed, and agricultural land (Tobacco);</li> <li>✓ No infrastructure in the vicinity;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for sand and gravel extraction.</li> </ul>
5. NL Tagufa Gravel & Sand c/o Norman L. Tagufa	5.00 hectares Annafunan, Tumauni, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Cagayan River, dried river bed, and agricultural land (corn);</li> <li>✓ No infrastructure within the 1 kilometer radius in the vicinity;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for sand and gravel extraction.</li> </ul>
6. Sheryl M. Go	4.14 hectares Sto. Domingo, Jones, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by Dibuluan River and agricultural land (corn);</li> <li>✓ On-going construction of flood control project (gabion-type) within 1 kilometer radius;</li> <li>✓ Rich in mineral deposits (boulders);</li> <li>✓ Area suitable for extraction subject to clearance from DPWH.</li> </ul>
7. Ernesto S. Albano	1.00 hectare Dibuluan, Jones, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by Dibuluan River and agricultural land (corn);</li> <li>✓ Infrastructures (flood-control and Dibuluan Bridge) within the 1 kilometer radius;</li> <li>✓ Rich in mineral deposits (sand, gravel, and boulders);</li> <li>✓ Area suitable for extraction in the main riverbed subject to clearance from DPWH.</li> </ul>
8. San Jose Calamagui Gravel & Sand Inc.	5.00 hectares	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> </ul>

	Calamagui East, Sta. Maria, Isabela	<ul style="list-style-type: none"> <li>✓ Bounded by Cagayan River and agricultural land (corn);</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ No infrastructure within the 1 kilometer radius in the vicinity;</li> <li>✓ Area suitable for extraction.</li> </ul>
9. Lapogan Multi-Purpose Coop. c/o Victoria S. Garcillan	4.97 hectares Lapogan, Tumauni, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by Cagayan River dried-river bed and agricultural land (corn);</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ No infrastructure within the 1 kilometer radius in the vicinity;</li> <li>✓ Area suitable for sand and gravel extraction.</li> </ul>
10. Royce Feb V. Lungan	4.90 hectares Maluno Norte, Benito Soliven, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by agricultural land (corn, tobacco) and Pinacanauan River;</li> <li>✓ Flood control (gabion-type) in the vicinity;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for extraction subject to clearance from the DPWH.</li> <li>✓ No actual and no traces of extraction seen.</li> </ul>
11. Glenn Moore Angelo E. Caramancion	4.90 hectares Disimpit, Jones, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Cagayan River and its dried river bed;</li> <li>✓ Newly-constructed flood control (gabion-type) within the 1 kilometer radius;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for sand and gravel extraction subject to clearance from the DPWH.</li> </ul>
12. Elvin M. Ramos	5.00 hectares Casibarag Norte, Cabagan, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Cagayan River, its dried river bed, and agricultural land (corn);</li> <li>✓ No infrastructure within the 1 kilometer radius in the vicinity;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for sand and gravel extraction.</li> </ul>
13. Accelerated Metal Technology & Construction Inc. rep. by Engr. Antonio M. Tumolva	5.00 hectares Guibang, Gamu, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Cagayan River and its dried river bed;</li> </ul>

		<ul style="list-style-type: none"> <li>✓ On-going construction of flood control project within the 1 kilometer radius in the vicinity;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for extraction subject to clearance from DPWH.</li> </ul>
14. Jun P. Bulos	5.00 hectares Furao, Gamu, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by Magat River, dried river bed, and agricultural land (corn, tobacco);</li> <li>✓ No infrastructure within the 1-kilometer in the vicinity;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for sand and gravel extraction.</li> </ul>
15. Maryjane P. Samus	5.00 hectares Mozzozzin Norte, Sta. Maria, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Cagayan River and its dried river bed;</li> <li>✓ Sta-Maria-Cabagan Bridge and an on-going construction of flood-control project within the 1 kilometer radius in the vicinity;</li> <li>✓ Abundant with mineral deposits (sand and gravel, particularly flying sand);</li> <li>✓ Area suitable for extraction subject to clearance from DPWH.</li> </ul>
16. Dutch Anne V. Uy	2.00 hectares Anafunan, Tumauni, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Cagayan River, its dried river bed, and agricultural land (corn);</li> <li>✓ Tumauni-Delfin Albano Bridge within the 1 kilometer radius in the vicinity;</li> <li>✓ Abundant in mineral resources (sand and gravel);</li> <li>✓ Area suitable for extraction subject to clearance from DPWH.</li> </ul>
17. CR Domingo Construction & Development, Inc. rep. by Engr. Rolando Y. Domingo	1.17 hectares San Roque, San Mateo, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Magat River, and its dried river bed;</li> <li>✓ Bridge (San Roque-Bagong Sikat Bridge) within the 1 kilometer radius from the applied area;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for sand and gravel extraction subject to clearance from the DPWH.</li> </ul>
18. Rofelin M. Dela Cruz	5.00 hectares Sinaoangan Sur, San Agustin, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Cagayan River, dried river bed, and agricultural land (corn);</li> </ul>

		<ul style="list-style-type: none"> <li>✓ On-going construction of flood control project within the 1 kilometer radius;</li> <li>✓ Rich in mineral deposits (sand and gravel);</li> <li>✓ Area suitable for sand and gravel extraction subject to clearance from DPWH.</li> </ul>
19. Joel L. Garcia	4.64 hectares Antagan 2 <sup>nd</sup> , Tumauni, Isabela	<ul style="list-style-type: none"> <li>✓ Public land accessible via all-weather road;</li> <li>✓ Bounded by the Pinacanauan River and its dried river bed;</li> <li>✓ Newly-constructed flood-control (gabion-type) within the 1 kilometer radius;</li> <li>✓ Rich in mineral deposits (boulders);</li> <li>✓ Area suitable for extraction subject to clearance from the DWPH.</li> </ul>

Recommendations include establishment of landmarks indicating boundaries of applied areas, extraction giving priority to build-up portion at the main riverbed, no screening in the riverbed and extraction pits should not be abandoned and must be covered immediately if no further extraction is intended for the specific area. Applicants of areas with infrastructures within the 1-kilometer radius were also recommended to secure clearance from the Department of Public Works and Highways.



*Barangay Baculud, City of Ilagan, Isabela applied by Ms. May Joy M. Balisi*



Barangay San Ignacio, City of Ilagan, Isabela applied by Mr. Rosalino U. Urandayan, Jr.



Barangay Banquero, Reina Mercedes, Isabela applied by Mr. Edwin P. Uy



Barangay Calamagui East, Sta. Maria, Isabela applied by San Jose Calamagui Gravel & Sand, Inc.



Barangay Rafael East, Sta. Maria, Isabela applied by Mr. Reynaldo G. Atuan



Barangay Annafunan, Tumauni, Isabela applied by Mr. Norman L. Tagufa





Barangay Sto. Domingo, Jones, Isabela applied by Ms. Sheryl S. Go



Barangay Dibulan, Jones, Isabela applied by Ernesto S. Albano



Barangay Lapogan, Tumauni, Isabela applied by Lapogan Multi-Purpose Cooperative



Barangay Maluno Norte, Benito Soliven, Isabela applied by Ms. Royce Feb V. Lungan



Barangay Casibarag Norte, Cabagan, Isabela applied by Engr. Elvin Ramos



*Barangay Guibang, Gamu, Isabela applied by AMTC*



*Barangay Furao, Gamu, Isabela applied by Mr. Jun P. Bulos*



*Barangay Mozzozzin Norte, Sta. Maria, Isabela applied by Ms. Mary Jane P. Samus*



Barangay Annafunan, Tumauni, Isabela applied by Ms. Dutch Anne V. Uy



Barangay Antagan 2nd, Tumauni, Isabela applied by Ms. Engr. Joel L. Garcia

**c. Provincial Mining Regulatory Board (PMRB) Deliberation**

All of the applications received were indorsed to the Provincial Mining Regulatory Board (PMRB) for review and deliberation. The Board convened on November 6, 2024 at Balai, Provincial Capitol Compound, Alibagu, City of Ilagan, Isabela. After thorough review of the requirements and discussion, the Board resolved to endorse all of the applications for final review and approval of the Provincial Governor by virtue of Resolution No. 001-2024.

Below is the list of the endorsed CSAG Permit Applications:

**Table 28.** List of Commercial Sand and Gravel Permit Applications deliberated and endorsed by PMRB

	Name of Applicants	Quarry Site	Area (has)
001	Reynaldo G. Atuan, Jr.	San Rafael East, Sta. Maria, Isabela	5.00
002	May Joy M. Balisi	Baculud, City of Ilagan, Isabela	5.00
003	Rosalino U. Urandayan, Jr.	San Ignacio, City of Ilagan, Isabela	5.00
004	Edwin P. Uy	Banquero, Reina Mercedes, Isabela	5.00
005	NL Tagufa Gravel & Sand Rep. by Norman L. Tagufa	Annafunan, Tumauini, Isabela	5.00
006	Sheryl M. Go	Sto. Domingo, Jones, Isabela	4.14
007	Ernesto S. Albano	Dibuluan, Jones, Isabela	1.00
008	San Jose Calamagui Gravel & Sand Inc. Rep. by Isaac Hilario G. Pagauitan III	Calamagui East, Sta. Maria, Isabela	5.00
009	Lapogan Multi-Purpose Coop. Rep. by Victoria S. Garcillan	Lapogan, Tumauini, Isabela	4.97
010	Royce Feb V. Lungan	Maluno Norte, Benito Soliven, Isabela	3.00
011	Glenn Moore Angelo E. Caramancion	Disimpit, Jones, Isabela	5.00
012	Elvin M. Ramos	Casibarag Norte, Cabagan, Isabela	5.00
013	Accelerated Metal Technology & Construction Inc. Rep. by Engr. Antonio M. Tumolva	Guibang & District II, Gamu, IsabelaR	4.98
014	Jun P. Bulos	Furao, Gamu, Isabela	5.00
015	Maryjane P. Samus	Mozzozzin Norte, Sta. Maria, Isabela	5.00
016	Dutch Anne V. Uy	Annafunan, Tumauini, Isabela	2.00
017	CR Domingo Construction & Development, Inc. Rep. by Engr. Rolando Y. Domingo	San Roque, San Mateo, Isabela	1.17
018	Rofelin M. Dela Cruz	Sinaoangan Sur, San Agustin	5.00
019	Joel L. Garcia	Antagan 2 <sup>nd</sup> , Tumauini, Isabela	4.64



*Some of the photos taken during the PMRB Deliberation*

**II. Accreditation of Haulers/Dealers/Traders and Retailers**

All haulers, traders, dealers and retailers of mineral/mineral products/by-products are required to be accredited by the Provincial Government through a Memorandum of Agreement with the Mines & Geo-sciences Bureau Region 02.

For this year, this office received and processed applications of, and issued Accreditation Permit, to **Three Hundred Thirty One (331)** haulers/ dealers/traders and retailers trading mineral products and by-products. Correspondingly, **One Thousand Eight Hundred Ninety Two (1,892) accreditation stickers** were issued for the conveyances and equipment registered.

**Table 29.** *Summary of Issued Accreditation Permit for CY 2024.*

Month	Number of Accreditation Permit Issued	Number of Units Registered
January	195	1,216
February	72	367
March	17	79
April	15	49
May	9	40
June	5	22
July	7	46
August	9	44
September	1	18
October	1	11
November	-	-
December	-	-

A total of **One Million Two Hundred Twelve Thousand Five Hundred Twenty pesos (Php1,212,520.00)** accreditation fees were remitted to PTO representing the permit application fees amounting to **Php 834,120.00** and **Php 378,400.00** for the stickers.

**Table 30.** List of Accredited Haulers/Dealers/Traders and Retailers for CY 2024

NO.	NAME	ADDRESS	NO OF UNITS
1.	Rosalino Urandayan Gravel and Sand Quarrying by Mr. Rosalino U. Urandayan, Jr.	San Ignacio, City of Ilagan, Isa.	3
2.	Ms. Ines S. Cabaccan	San Isidro, City of Ilagam, Isa.	10
3.	Mr. Arthur U. Bulan	Purok 1 Payac, Jones, Isa.	2
4.	New Wellington Lumber & Hardware by Mr. Andres S. Tan	Centro East, Santiago City, Isa.	2
5.	Lucky 21 Civil Engineering Construction by Mr. Edmund C. Bascos	Bagong Buhay Batal, Santiago City, Isa.	17
6.	Mr. Marvin A. Reosia	San Andres, City of Ilagan, Isa.	4
7.	Mr. Efrren Santiago	San Isidro, City of Ilagam, Isa.	2
8.	Ms. Grace C. Bird	Liwana, Tumauni, Isa.	2
9.	Mr. Gaudencio A. Reyes, Jr.	Magsaysay, Naguilian, Isa.	7
10.	Eduard Dela Cruz Quarry Operations by Mr. Eduard Dela Cruz	Marasat Pequeño, San Mateo, Isa.	3
11.	Esteban Hollowblocks Gravel & Sand by Mr. William M. Esteban	Batal, Santiago City, Isa	7
12.	GC Sand and Gravel Quarrying by Mr. Gelacio S. Carlos, Jr.	Rang-Ay, Cabatuan, Isa.	16
13.	Bits Hardware & Construction Supply By Mr. Steve Deniel Venancio Tio III	Diamantina, Cabatuan, Isa.	21
14.	Reydel General Merchandise by Mr. Reynold B. Delmendo	Magsaysay, Alicia, Isa.	7
15.	Dencio Gravel and Sand by Dennis Mr. Vincent M. Ferrer	Lingaling, Tumauni, Isa.	5
16.	H.J. Domingo Hardware by Mr. Hector J. Domingo	San Fabian, Echague, Isa.	2
17.	Queen Town Merchandizing by Mr. Victor P. Saladino	San Fabian, Echague, Isa.	1
18.	JLG Construction by Mr. Joel L. Garcia	Garita, Cabagan, Isabela	6
19.	LC Talon Construction by Mr. Leonard C. Talon	Sampaloc, Cabatuan, Isabela	7
20.	Mr. Randy M. Balisi	Baculud, City of Ilagan, Isa.	3
21.	RKAD'S Hardware & Const. Supplies by Ms. Susan Kristine S. Acosta	Antonino, Alicia, Isa.	2
22.	Advanced Foundation Const. Systems Corp. by Mr. Andres Malicdem, Jr.	Magsaysay, Naguilian, Isa.	4
23.	Almazan Heavy Equipment Rentals by Mr. Roel A. Almazan	Manano, Mallig, Isa.	15
24.	Tile Master and Const. Supply by Ms. Elizabeth E. Undag	Batal, Santiago City, Isa.	3
25.	Adriosula Hardware & Const. Supply by Mr. Florencio L. Adriosula, Jr.	Centro 1, Mallig, Isa.	4
26.	Mabuhay Concrete Products by Ms. Belly M. Ramos	Plaridel, Santiago City, Isa.	8
27.	AF Manuel Const. Inc. by Ms. Aurea F. Manuel	Brgy.II, San Mateo, Isa.	9

28.	R.A.L. Mini Hardware & Electrical Supply by Mr. Robert S. Lim	Bugallon Proper, Ramon, Isa.	3
29.	Vicar Gravel Trading by Mr. Victorino D. Pascual	San Fermin, Cauayan City, Isa.	7
30.	JKR Medina Gravel and Sand by Mr. Johnny Warren C. Medina	Concepcion, Luna, Isa.	4
31.	Ms. Judee C. Mateo	Victoria, San Mateo, Isa.	5
32.	Accelerated Metal Technology & Const. Inc. by Mr. Antonio M. Tumolva	Guibang, Gamu, Isa.	12
33.	JBR Grain Trade Incorporation by Mr. Ronald A. Respicio	Centro 2, San Guillermo, Isa.	2
34.	Dalcon Construction by Mr. Dhemie Leo S. Condaya	Villa Hermosa, Maddela, Quirino	3
35.	RC Escaño Construction by Mr. Romulo C. Escaño	Nattanzan, Iguig, Cagayan	1
36.	IJH Gravel and Sand by Mr. James P. Pua	Maligaya, Tumauni, Isa.	7
37.	Golden Tech Construction Corp. by Mr. Armando S. Tan	Raniag, Ramon, Isa.	20
38.	Cayan Gravel and Sand Trading by Ms. Royce Feb V. Lungan	Purok 7, Benito Soliven, Isa.	7
39.	Rodriguez Gravel and Sand by Ms. Redelyn C. Rodriguez	Ugac Sur, Tuguegarao City, Cagayan	7
40.	Kernel General Merchandise by Ms. Rowena M. Dela Peña	Rizal, Alicia, Isa.	4
41.	Danyson's Const. & Dev't. Corp. by Mr. Dan A. Dulig	Dist. 1, Cauayan City, Isa.	33
42.	Precious AJ Marketing & Gen. Mdse. By Mr. Albert S. Galiza	Culalabat, Cauayan City, Isa.	8
43.	Haniel Buying Station & Agricultutral Supply by Ms. Honeylet Aleli D. Labiano	Antonino, Alicia, Isa.	5
44.	A. De Guia Const. & Dev't. Corp. by Mr. Armando M. De Guia	Antonino, Alicia, Isa.	43
45.	Chu-San Const. and Supply by Mr. Honorio S. Chua III	Minante 1, Cauayan City, Isa.	8
46.	EGE hardware & Lumber Trading by Mr. Eles G. Erang	Ipil, Ehague, Isa.	1
47.	Atuan's Hardware Hollowblocks Gravel & Sand by Mr. Reynaldo G. Atuan, Jr.	San Rafael East, Sta. Maria, Isa.	9
48.	Ms. Cinderella M. Gatan	Casibarag Sur, Cabagan, Isa.	5
49.	JAB Gravel and Sand by Mr. Jimmy Balayan	Calamagui 1 <sup>st</sup> , City of Ilagan, Isa.	6
50.	4 MG Construction Supply by Ms. Gladyz S. Baligod	Sinsayon, Santiago City, Isa.	1
51.	Mr. Ronnel M. Butac	Nemmatan, San Agustin, Isa.	1
52.	619 Builders Const. Corp. by Mr. Fernando G. Magno	Nueva Era, San Manuel, Isa.	18
53.	Ms. Vivien B. Cabrera	San Fermin, Cauayan City, Isa.	5
54.	OKC General Merchandise by Mr. Dennis G. Ongkiatco	Mabini, Santiago City, Isa.	1
55.	GC Martin Const. Supplies by Mr. Gerald C. Martin	Ugac Sur, Tuguegarao City, Cagayan	3



56.	Saveworks Hardware Gravel, Sand & Gen. Mdse. by Mr. Joselito S. Bautista	San Mateo, Tumauni, Isa.	7
57.	CBU Nita's Construction Supply by Mr. Christopher B. Uy	San Pedro, Tumauni, Isa.	8
58.	Mr. Rolando O. Roquero	Pallua Sur, Tuguegarao City, Cagayan	3
59.	RLU Hardware & Const. Supplies by Mr. Rendelsen C. Uy	Mabini, Gamu, Isa.	1
60.	Mr. Elvin M. Ramos	Centro, Cabagan, Isa.	11
61.	Triple 8 Gravel & Sand Trading by Ms. Maria Theresa F. Abella	District 3, San Manuel, Isa.	4
62.	Joemson & Electrical Hardware Supply by Mr. Gil A. Francisco	Brgy. 1, San Mateo, Isa.	6
63.	Furao Sand and Gravel Trading by Mr. Edwin P. Uy	Banquero, Reina, Mercedes, Isa.	9
64.	Mamaril Gravel and Sand Trading by Ms. Lovelyn D. Mamaril	Aurora, Alicia, Isa.	8
65.	R.R. Roofing Services by Ms. Ronalyn P. Malong	Aurora, Alicia, Isa.	6
66.	R. C. Balayan Gravel and Sand by Mr. Ramon C. Balayan	Calamagui 1 <sup>st</sup> , City of Ilagan, Isa.	1
67.	JST Construction by Mr. Jose S. Tan	Plaridel, Santiago City, Isa.	23
68.	Dragon Twelve Builders & Const. Supply by Mr. Jonathan L. Diaz	Marana 2 <sup>nd</sup> , City of Ilagan, Isa.	80
69.	Mr. Kristopher Maltu	Sta. Maria, Cab. 8, City of Ilagan, Isa.	3
70.	Villena Construction by Mr. Federico A. Villena	Villa Imelda, City of Ilagan, Isa.	4
71.	Tumamao Hardware and Const. Supply by Ms. Teresita O. Tumamao	Rizal East, San Isidro, Isa.	6
72.	Glenn Moore Angelo Caramancion Gravel & Sand by Mr. Glenn Moore Angelo E. Caramancion	Disimpit, Jones, Isa.	15
73.	DLC Gravel and Sand by Mr. Jeffrey Jones L. Cabbab	Zone 2, San Mariano, Isa.	2
74.	Mr. Henry Allan R. Macarilay	Disimpit, Jones, Isa.	4
75.	Dragon Hatched Construction by Mr. Dean Anthony Arzaga	Sta. Victoria, Cty of Ilagan, Isa.	30
76.	San Jose Calamagui Gravel & Sand Inc. by Mr. Isaac Hilario G. Pagautan II	Calamagui North, Sta. Maria, Isa.	8
77.	LM Construction by Mr. Louie A. Mangalos	Antonino, Alicia, Isa.	7
78.	KSC Construction Supply by Ms. Felicitas S. Claravall	Callao, Alicia, Isa.	5
79.	Mr. Expedito G. Gumiran, Jr.	Marana 3 <sup>rd</sup> , City of Ilagan, Isa.	2
80.	EUAN Enterprises by Mr. Fernando L. Mangabat	Centro 2, Luna, Isa.	7
81.	P. Sunrise Construction Supplies by Mr. Kevin Christian Y. Pua	Calamagui 2 <sup>nd</sup> , City of Ilagan, Isa.	2
82.	Dragon-4 by Jun P. Bulos	Furao, Gamu, Isa.	11

83.	D.M. Diego Architectural Design & Consultancy Mr. Darwin M. Diego	Caloocan, Santiago City, Isa.	1
84.	RF Hollow Blocks, Gravel and Sand by Ms. Fe C. Colobong	La Paz, Cabatuan, Isa.	6
85.	Jestony Gravel & Sand Trading by Mr. Antonio B. Gangan	Alinguigan 2 <sup>nd</sup> , City of Ilagan, Isa.	5
86.	Panganiban Construction Supplies Trading by Mr. Allan C. Panganiban	Gucab, Echague, Isa.	4
87.	Mr. Riczer A. Jacinto	San Juan, Aurora, Isa.	1
88.	JWU Construction and Supply by Mr. John Winston D. Uy	Rizal, Roxas, Isa.	26
89.	Benailda Gravel & Sand Trading by Ms. Benailda C. Genovia	Lenzon, Gamu, Isa.	5
90.	Villa Mercedes Nature Farm and Resort by Mr. June T. Yadao	Osmeña, City of Ilagan, Isa.	1
91.	Buguina Hollowblocks Manufacturing by Mr. Ferdito A. Buguina	Lullutan, City of Ilagan, Isa.	5
92.	JJ Hardware by Mr. Jerson C. Sapongay	Fuyo, City of Ilagan, Isa.	1
93.	Extreme Builders by Ms. Lynie O. Panganiban	Centro West, Santiago City, Isa.	1
94.	AHB Const. and Supply by Mr. Narciso S. Bilayon, Jr.	Capirpiriwan, Cordon, Isa.	5
95.	GB Roncal Trucking Services by Mr. Glen B. Roncal	Gomez 3101, Sta. Rosa, Nueva Ecija	6
96.	Eastern Sunrays Gravel & Sand Trading by Mr. Jerome C. Curameng	Bacnor East, Burgos, Isa.	2
97.	Isabela Royal Builders Inc. by Ms. Stefanie Angeline P. Que	Dist. 1, Cauayan City, Isa.	21
98.	Ms. Leticia T. Sebastian	Brgy. 1, Jones, Isa.	2
99.	Gelo's Gravel and Sand Trading by Mr. Dennis T. Andres	Cabulay, Santiago City, Isa.	1
100.	JAO Sand and Gravel Trading by Ms. Jillian Alyssa R. Ordoñez	Turod Reina, Reina Mercedes, Isa.	4
101.	Holy Spirits Mission Multi-Purpose Coop. by Mr. Abel B. Yapyapan	San Fernando, Alicia, Isa.	5
102.	CS Mini Hardware by Mr. Cesar Ian M. Santos	San Isidro, City of Ilagan, isa.	3
103.	Vilpaz Trading by Mr. Ewald Rimo P. Domingo	Villapaz, Naguilian, Isa.	1
104.	Riches Jon Construction supply by Mr. Jonathan D. Navalta	Muños East, Roxas, Isa.	5
105.	Agriware Enterprises by Mr. Joeben G. Gicole	Aggassian, City of Ilagan, Isa.	1
106.	CR Domingo Const. & Power Dev't. Inc. by Mr. Rolando Y. Domingo	Brgy. 3, San Mateo, Isa.	14
107.	TJBC Builders by Mr. Teodoro M. De Jesus	Brgy. 1, Jones, Isa.	3
108.	Ms. Daisy S. Sao	Minuri, Jones, Isa.	2
109.	Gelogica Enterprises by Mr. Nelson P. Chu	Brgy. 1, Jones, Isa.	2
110.	Mr. Rey P. Manalansan	Papan Weste, Jones, Isa.	1

111.	Mr. Jounard Delos Santos	San Vicente, Jones, Isa.	1
112.	Ms. Janice Ramos	Minuri, Jones, Isa.	1
113.	Mr. Domingo A. Maximo	Napoliong, Jones, Isa.	1
114.	Mr. Francis Mart R. Apolinario	Minuri, Jones, Isa.	2
115.	JB Enterprises by Mr. Jerald Reymond Mari M. Bigornia	Mansibang, Naguilian, Isa.	13
116.	Tri-Blocks Enterprises by Ms. Precy D. Tan	Calao East, Santiago City, Isa.	6
117.	Dela Cruz Const. Materials by Ms. Lolita L. Dela Cruz	Colunguan, Sto. Tomas, Isa.	2
118.	Gravel Co. by Mr. Joseph Marc Tollmack Sand and S. Dy	San Fermin, Cauayan City, Isa.	6
119.	Bryan Gen. Merchandise & Hardware By Mr. Barney Leonard C. Pua	Brgy. Magsaysay, Alicia, Isa.	10
120.	Fiscaro's Hardware & Trading By Ms. Veronica Fiscaro	Brgy. 3, San Mateo, Isa.	3
121.	Ramos Merchandise By Ms. Jenny A. Ramos	Brgy. Liwanag, Tumauni, Isa.	2
122.	JAV Commercial By Mr. Jhomar L. Viernes	Brgy. La Paz, Saguday, Quirino	3
123.	Fragerr Construction Supplies By Ms. Edna G. Malayao	Brgy. Poblacion, San Pablo, Isabela	7
124.	Maryjane Gravel And Sand Trading By Ms. Maryjane Samus	Brgy. Bangad, Sta. Maria, Isabela	7
125.	Super 5R Corporation By Mr. Mario D. Paraggua	Brgy. Ugad, Cabagan, Isabela	9
126.	WB Truckline Enterprises By Mr. Wilson M. Balingao	Brgy. San Luis, Cauayan City, Isabela	1
127.	3A's Hardware By Ms. Marnellie A. Gannaban	Brgy. Ugad, Cabagan, Isabela	9
128.	NTL Builders And Developer By Ms. Emily M. Lim	Brgy. Dipintin, Maddela, Quirino	14
129.	Algo Construction And Power Dev't. Inc. By Mr. Allan U. Gomez	Brgy. Diamantina, Cabatuan, Isa.	12
130.	Mr. Hermigildo M. Zuniega	Brgy. Capirpiriwan, Cordon, Isa.	2
131.	Mr. Obladie B. Batang	Brgy. Rizaluna, Cordon, Isabela	3

132.	CKC Palay Buying And Rice Dealer By Mr. Bernardo A. Pua	Brgy. Bella Luz, San Mateo, Isabela	4
133.	AVD Commercial Center By Mr. Aldrich U. Gomez	Brgy. San Antonio, Delfin Albano, Isabela	5
134.	R And R Hardware And Const. Supplies By Mr. Reynold M. Uy	Brgy. Cullalabo Norte, Burgos, Isabela	5
135.	Cuaresma Hollowblocks Manufacturing By Mr. Jun-Jun A. Cuaresma	Brgy. Cab. 10, City Of Ilagan, Isabela	5
136.	D. A. Cadeliña Construction By Ms. Evelyn C. Cadeliña	Brgy. Daramuangan Sur, San Mateo, Isabela	6
137.	Silver Dragon Hardware & Electrical Supply By Ms. Josephine S. Ganipan	Brgy. Ugad, Cabagan, Isabela	2
138.	JB Construction Aggregates Trading By Mr. Julian W. Dacaca	Brgy. Rizaluna, Alicia, Isabela	3
139.	Triple 222 Realty & Development By Mr. Jerick Jan R. Rivera	Brgy. Calao West, Santiago City, Isabela	6
140.	RM Hardware & Construction Supplies By Ms. Maureen A. Pastor	Brgy. San Pedro, Mallig, Isabela	7
141.	RJC Castro Hardware, Hollowblocks, Gravel & Sand By Ms. Joan V. Castro	Brgy. Sotero Nuesa, Roxas, Isabela	13
142.	RVG Merchandising By Mr. Romeo C. Gomez	Brgy. Marana 3rd, City Of Ilagan, Isa.	4
143.	Shayne Hardware & Lumber Trading By Ms. Marilou B. Agub	Brgy. Dist. 2, Gamu, Isabela	1
144.	FJ Hardware Gravel & General Merchandise By Ms. Neftali W. Albano	Brgy. Ugad, Cabagan, Isabela	6
145.	NL Tagufa Gravel & Sand Trading By Mr. Norman L. Tagufa	Brgy. Ugad, Tumauni, Isabela	6
146.	Mr. Ricardo G. Artisuela	Brgy. Lapogan, Tumauni, Isabela	3
147.	Mr. Oscar S. Balbin	Brgy. Lapogan, Tumauni, Isabela	3
148.	Mr. Joseph F. Losloso	Brgy. Rosario, Santiago City, Isabela	4
149.	Jovan Construction By Mr. Joselito A. Suyat	Brgy. 1, Jones, Isa.	1
150.	New U.T.G. Hardware And General Merchandise By Ms. Corazon P. Uy	Brgy. 1, Jones, Isa.	2
151.	Alchiqui Enterprises By Ms. Chiqui A. Hernandez	Brgy. Alinguigan 2nd, City Of Ilagan, Isa.	5
152.	Mr. Allan C. Carabbacan	Brgy. Minuri, Jones, Isa.	2
153.	Mr. Joel C. Maximo	Brgy. Minuri, Jones, Isa.	1
154.	Ms. Rowena Villanueva	Brgy. Minuri, Jones, Isa.	1
155.	Ms. Marina V. Aureda	Brgy. Minuri, Jones, Isa.	1
156.	Mr Felix Lauriano	Brgy. Minuri, Jones, Isa.	2
157.	Mr. Jhone Mart Cascayan	Brgy. Minuri, Jones, Isa.	2
158.	Mr. Jomar Cascayan	Brgy. Minuri, Jones, Isa.	3
159.	Ms. Marlyn B. Bautista	Brgy. Linglingay, Gamu, Isabela	7
160.	Galingana General Merchandise By Mr. Larry B. Galingana	Brgy. Bannawag, Aurora, Isabela	8
161.	Gonzales Construction Supplies Trading By Mr. Reynold R. Gonzales	Brgy. Zamora, Cabarroguis, Quirino	1

162.	Myra Salas Store By Ms. Myra A. Salas	Brgy. Lullutan, City Of Ilagan, Isa.	1
163.	Jercon Trade Const. Dev't. Corp. By Mr. Jerry Galope	Brgy. Dist.2, Cauayan City, Isabela	7
164.	EA Concrete Products Manufacturing By Ms. Maricar L. Asuncion	Brgy. Morado, City Of Ilagan, Isabela	1
165.	Toprank Const. And Dev't. Corp. By Mr. Benjie D. Tan	Brgy. Plaridel, Santiago, City, Isa.	13
166.	ImRed Asia Const. And Supply Opc By Mr. Dominic Benedict T. Almorade	Brgy. Magsaysay, Cordon, Isabela	4
167.	Mr. Jason S. Bernabe	Brgy. Sta. Rita, Aurora, Isabela	8
168.	Mr. William C. Marquez	Brgy. Minante 1, Cauayan City, Isabela	6
169.	Mr. Apolinario G. Datu	Brgy. San Pedro-San Pablo, Aurora, Isabela	8
170.	D Twins Hardware And Gen. Merchandise By Ms. Rizzel L. Quintinita	Brgy. Culalabo-San Antonio, Burgos, Isabela	1
171.	RRC Construction Inc. By Mr. Reynilo R. Chua	Brgy. Rang-Ayan, Roxas, Isabela	14
172.	Mr. Aldo Rey T. Vargas	Brgy. Digumased, Dinapigue, Isabela	3
173.	SF Const. Supplies Trading By Mr. King Francis D. Borromeo	Brgy. Sampaloc, Cabatuan, Isa.	1
174.	21th Const. Dev't. Corp. By Mr. Nervie E. Flores	Phase Vi, Approva I, Taguig City	5
175.	CMN Enterprises Corp. By Mr. Dave P. Barut	Brgy. Colunguan, Sto. Tomas, Isa.	3
176.	Ridelmay Mini Hardware By Mr. Hilarion Rodel S. Cabansag	Brgy. Sta. Isabel Sur, City Of Ilagan, Isabela	2
177.	Alkenjee Hardware & Const. Supplies By Mr. Jessie T. Bangloy	Brgy. 2, Jones, Isabela	3
178.	RPDS Gravel And Sand Trading By Ms. Perlita Blanca C. Delos Santos	Brgy. San Bernardo, Cabagan, Isabela	4
179.	Mr. Jun U. Balloran	Gy. Minuri, Jones, Isabela	5
180.	Mr. Henry P. Danga	Brgy. 1, Jones, Isa.	3
181.	Mr. Edison M. Pascual	Brgy. Fugu, Jones, Isabela	7
182.	Mr. Jomar M. Tadiwan	Brgy. Centro San Antonio, City Of Ilagan, Isabela	1
183.	Hannah Const. Supplies Trading By Mr. Noel B. Navalta	Brgy. San Placido, Roxas, Isabela	15
184.	FBD Tan Hardware By Ms. Pacita B. Tan	Brgy. Bangad, Sta. Maria, Isabela	3
185.	JVP Hardware And Gen. Merchandise By Mr. Jester C. Pua	Brgy. Magsaysay, Alicia, Isabela	5
186.	RJC Construction Builders By Mr. Bernard A. Cortes	Brgy. Sinsayon, Santiago City, Isa.	2
187.	E. S. Pua Construction By Mr. Eddie S. Pua	Brgy. Bliss Village, City Of Ilagan, Isabela	9
188.	Talana Sand & Gravel Trading by Ms. Rose Ann T. Acacio	Lullutan, City of Ilagan, Isa.	1
189.	Hannah's Hardware By Ms. Alma T. Barut	Brgy. San Juan, Echague, Isabela	2
190.	Mr. Larry A. Castillo	Brgy. Rizaluna, Cordon, Isabela	1

191.	MarDeb Const. And Dev't. Corp. By Mr. Mario P. Dela Fuente	Brgy. Magdalena, Cabatuan, Isabela	17
192.	LSP Grains Dealer By Mr. Leonardo S. Pua	Brgy. Calamagui 1st, City Of Ilagan, Isa.	3
193.	Mr. Francisco B. Acorda	Brgy. San Andres, City Of Ilagan, Isabela	6
194.	Handy Manny Const. Solutions By Mr. Vladymmer M. Lucas	Brgy. Centro East, Santiago City, Isa.	6
195.	R.S.K.M. Construction Services By Mr. Richard Stephensun L. Almiron	Brgy. Camaal, Quirino, Isabela	15
196.	Ed Jr. Hardware & Const. Supplies By Mr. Eduard G. Isaguirre, Jr.	Brgy. Villa Concepcion, Cauayan City, Isabela	1
197.	Mr. Benjamin G. Pantaleon	Brgy. Dalig, Burgos, Isabela	1
198.	Edwin Hardware And Concrete Products By Mr. Edwin S. Abalos	Brgy. Bugallon Proper, Ramon, Isa.	1
199.	E. C. Construction & Supply By Mr. Egbert M. Cabauatan	Brgy. Casibarag Sur, Cabagan, Isa.	10
200.	Jcube8 Sand And Gravel Trading By Mr. Justito S. Jimenez, Jr.	Brgy. Malamag West, Tumauni, Isabela	4
201.	AC Nita's Hardware & Gen. Merchandise By Ms. Ma. Concepcion B. Uy	Brgy. Dist. 1, Tumauni, Isabela	12
202.	Pending's Construction Supply By Ms. Emily S. Santos	Brgy. Guinatan, City Of Ilagan, Isabela	2
203.	Mr. Rodolfo A. Mariano	Brgy. Antagan 2nd, Tumauni, Isabela	2
204.	GNM Concrete Products & Mini Hardware By Mr. Generoso N. Manuel	Brgy. Buenavista, Santiago City, Isabela	9
205.	Providers Multipurpose Cooperative By Ms. Marie Dee B. Belagan	Brgy. Magsaysay, Naguilian, Isabela	26
206.	Harbor Master Const. Supply By Ms. Jennette G. Buraga	Brgy. Alinguigan 3rd, City Of Ilagan, Isa.	12
207.	Cerezo Hardware & Const. Supplies By Ms. Richelle A. Cerezo	Brgy. Plaridel, Santiago, City, Isa.	5
208.	Acuario Const. & Dev't. Inc. By Mr. Edgar B. Gomultim	Brgy. Baligatan, City Of Ilagan, Isabela	4
209.	YZ Hardware By Mr. Rofelin M. Dela Cruz	Brgy. Virgoneza, San Agustin, Isabela	9
210.	6J Construction Services By Mr. Honorio Sanchez, Jr.	Brgy. Centro 1, San Guillermo, Isabela	5
211.	Arora Merchandising And Dev't. Inc. By Mr. Harish D. Arora	Brgy. Calamagui 2nd, City Of Ilagan, Isabela	1
212.	MAV Const. Supply And Power Dev't. By Ms. Maureen A. Velasco	Brgy. Dist. 1, Cauayan City, Isa.	18
213.	San Lazaro Construction By Mr. Dan Carlo P. Maquinad	Brgy. Dist. 3, Gamu, Isabela	1
214.	YZK Builders By Ms. Maria Loida C. Cruz	Brgy. Minanga, San Mariano, Isabela	7
215.	GCPK Construction By Mr. Gian Layugan	Brgy. Zone 1, San Mariano, Isabela	9
216.	Go Eight Corporation By Ms. Paula Go	Brgy. Zone 1, San Mariano, Isabela	7

217.	Mr. Ferdinand P. Tan	Brgy. Malalam, City Of Ilagan, Isabela	1
218.	FM Orani & Son's Dev't. Corp. By Mr. Feliciano C. Orani	Brgy. Arellano, Quezon, Isabela	4
219.	A-Czar18 Construction By Mr. Vandrick Czar T. Corpuz	Brgy. Aurora West, Diffun, Quirino	4
220.	F.S. Bernabe Gravel & Sand & Concrete Products By Mr. Felix S. Bernabe	Brgy. Bantug, Roxas, Isabela	3
221.	JDR Sand And Gravel Supply By Ms. Gemma D. Oh	Brgy. Cabaruan, Cauayan City, Isabela	5
222.	SR Construction Supply By Mr. Lenard Sherwin B. Pua	Brgy. Dist. 1, San Manuel, Isabela	4
223.	TJ's Concrete Products & Const. Supply By Ms. Josephine T. Bautista	Brgy. Rizal, Santiago City, Isabela	2
224.	RBU Hardware & Const. Supply By Mr. Ronald B. Uy	Brgy. Cubag, Cabagan, Isabela	4
225.	Em-Em Hardware By Ms. Marivic B. Agub	Brgy. Centro, Sto. Tomas, Isabela	3
226.	Danny Viernes Heavy Equipment Rental By Mr. Danny E. Viernes	Brgy. Caquilingan, Cordon, Isabela	4
227.	Mizrach's Construction Services By Mr. John Alvin T. Baligod	Brgy. Villasis, Santiago City, Isabela	8
228.	Mr. Edward D. Juan	Brgy. Luna, Quirino, Isabela	12
229.	EGB Construction Corporation By Mr. Erni G. Baggao	Brgy. Alibagu, City Of Ilagan, Isabela	49
230.	Agor's Construction By Mr. Alex F. AgOr	Brgy. Calamagui 2nd, City Of Ilagan, Isabela	6
231.	TL Bros Construction Corp. By Mr. Alvin C. Teng	Brgy. San Miguel, Luna Isabela	8
232.	Nene's Gravel And Sand Trading By Ms. Yolanda P. Delos Santos	Brgy. Zone 2, San Mariano, Isa.	2
233.	Diffun Saranay Dev't. Coop. By Ms. Jean Claudine P. Cristobal	Brgy. Andres Bonifacio, Diffun, Quirino	2
234.	Mr. Pedro A. Flores	Brgy. Centro 1, Mallig, Isabela	5
235.	Ericcson Construction By Mr. Ericcson B. Luy	Brgy. Alibagu, City Of Ilagan, Isabela	2
236.	Mr. Jacques Benedick R. Vibar	Brgy. Minuri, Jones, Isa.	4
237.	Mr. Gil B. Eniva	Brgy. Minuri, Jones, Isa.	1
238.	Mr. Kevin Michael A. Paciente	Brgy. Villasis, Santiago City, Isabela	2
239.	Rising Dragon Enterprise By Mr. Juan Nicole U. Co	Brgy. Calamagui 2nd, City Of Ilagan, Isabela	2
240.	Mr. Arjay N. Baccal	Brgy. Sto. Domingo, Jones, Isabela	2
241.	R AN Construction And Const. Supply By Mr. Romel N. An	Brgy. Buenavista, Santiago City, Isabela	3
242.	Mr. Jonel P. Villanueva	Brgy. Minuri, Jones, Isa.	3
243.	Mr. Edison A. Bulusan	Brgy. Minuri, Jones, Isa.	1
244.	Shekinah Hardware & Const. Supplies by Ms. Susan U. Manango	Brgy. Masaya Norte, San Agustin, Isabela	2
245.	Mr. Edwin Pasion	Brgy. Minuri, Jones, Isa.	2

246.	North Golden Star Gen. Mdse. By Mr. Robert P. Uy	Brgy. Masaya Sur, San Agustin, Isabela	3
247.	Mr. Rammish T. Singh	Brgy. Purok 2, Santiago City, Isabela	6
248.	Mr. Elvis Chy	Brgy. Linomot, Jones, Isabela	2
249.	CTM Plaza Drugstore By Ms. Chatie T. Miro	Brgy. Centro, Cabagan, Isabela	4
250.	Allied S3 Hardware Const. Supply By Mr. Bernard T. Bunagan	Brgy. Calamgui 1st, City Of Ilagan, Isabela	1
251.	DMCP Construction By Ms. Deborah Mae C. Pedro	Brgy. Minanga, San Mariano, Isabela	11
252.	ANKI Civil Engineering Construction By Mr. Alexander B. Iringan	Brgy. Bagay Road, Tuguegarao City, Cagayan	2
253.	Lianna Sand And Gravel Supply By Ms. Lily Ann M. Obra	Brgy. Raniag, Ramon, Isa.	10
254.	AVM Sand And Gravel Supply By Kathleen Imee G. Mangabat	Brgy. Bagnos, Aurora, Isabela	1
255.	E & K Construction Services By Kessel Marie Q. Lim	Brgy. Dungo, Aglipay, Isabela	7
256.	A & J Designs And Construction By Jovani Q. Flores	Brgy. San Isidro, Diffun, Quirino	1
257.	RJG Hardware By Raffy John O. Gomez	Brgy. Marana 3rd, City Of Ilagan, Isa.	3
258.	AAO Trading By Maribel C. Olavidez	Brgy. Magsaysay, Naguilian, Isabela	2
259.	VRDJ Construction By Daniel T. Cababa	Brgy. Centro, Sto. Tomas, Isabela	2
260.	Four R Construction By Mr. Ruben U. Valenzuela	Brgy. Palagao Norte, Gattaran, Cagayan	4
261.	JES Corn Buying Station By Jayson E. Salvador	Brgy. San Felipe, City Of Ilagan, Isabela	1
262.	Lucrecio M. Viray	Brgy. Mabini, Alicia, Isabela	1
263.	Mr. Nelson V. Donato	Brgy. Muñoz West, Roxas, Isa.	1
264.	GAAP-Construction By Mr. Leonardo C. Ayson	Brgy. Lullutan, City Of Ilagan, Isa.	4
265.	Triple G Construction Services By Mr. Kit M. Guzman	Brgy. Zone 3, San Mariano, Isabela	6
266.	Mr. Michael D. Azul	Brgy. Aggassian, City Of Ilagan, Isa.	1
267.	Ms. Marilyn C. Mata	Brgy. Aggassian, City Of Ilagan, Isa.	1
268.	Monphil Gen. Mdse. & Const. Supply By Mr. Raymundo G. Junio	Brgy. Upi, Gamu, Isabela	2
269.	SMT Construction By Mr. Samuel M. Toribio	Brgy. Bliss Village, City Of Ilagan, Isabela	8
270.	FFJJ Construction By Mr. Osmeña L. Palanggalan	Notre Dame, Cotobato City	5
271.	Mr. Ernesto S. Fernandez	Brgy. Sinsayon, Santiago City, Isa.	2
272.	A Coloma Construction By Mr. Austson T. Coloma, Jr.	Brgy. li, San Mateo, Isa.	8
273.	Mr. Greg M. Albino	Brgy. Dist. 2, San Manuel, Isa.	8



274.	DM Concrete Products Trading By Ms. Dimares R. Molina	Brgy. Rosario, Santiago City, Isabela	1
275.	Abbe Const. Supply & Gen. Mdse. By Mr. Romeo T. Gonzales	Brgy. Quezon, San Isidro, Isa.	2
276.	Saber's Aggregates And Hollow Blocks By Mr. Felix Angel F. Pascua	Brgy. Batal, Santiago City, Isa.	2
277.	Colby Construction By Ms. Conchita D. Colbongan	Brgy. Batal, Santiago City, Isa.	7
278.	Jhad's Hardware Trading By Mr. Jhonas D. Palitayan	Brgy. Digumased, Dinapigue, Isabela	3
279.	Mr. Vicente A. Salomon, Jr.	Brgy. Centro East, Santiago City, Isa.	1
280.	Camberwell Construction & Supplies By Ms. Grace M. Rodriguez	Brgy. Zone 3, San Mariano, Isabela	20
281.	Maam Hardware & Const. Supply By Mr. Abelardo A. Astero	Brgy. Magsaysay, Naguilian, Isabela	2
282.	NGC Construction & Supply By Mr. Nikko George L. Chan	Brgy. Mabini, Santiago City, Isa.	1
283.	RAR Modular Plus By Mr. Rhoderick A. Roque	Brgy. Mabini, Santiago City, Isa.	1
284.	Supeña's Property Leasing By Mr. Godofredo B. Supeña, Jr.	Brgy. Rosario, Santiago City, Isabela	3
285.	Mr. Laurence B. Mariano	Brgy. 1, Jones, Isa.	1
286.	Cano Hardware By Mr. Jefferday C. Meña	Brgy. Gayong, Cordon, Isabela	2
287.	Mr. Pelagio R. Perico	Brgy. Calaoacan, Santiago City, Isabela	1
288.	RLDY Hardware & Const. Supplies By Mr. Darnel M. Cabauatan	Brgy. Rang-Ayan, City Of Ilagan, Isa.	2
289.	RSKC Construction By Mr. Raymund T. Cababa	Brgy. Centro, Sto. Tomas, Isabela	4
290.	Salvador's Hardware By Ms. Ruthlen U. Salvador	Brgy. Cab. 7, City Of Ilagan, Isa.	1
291.	Edfrob Const. Services Inc. By Ms. Aprilyn Marie K. Frogoso	Brgy. Cembo, Makati City	10
292.	M.A. Lui Construction By Mr. Mark Aldwin L. Lui	Brgy. Batal, Santiago City, Isa.	2
293.	MC Cayaban Concrete Products By Ms. Milagrina C. Cayaban	Brgy. Capirpiriwan, Cordon, Isa.	3
294.	Masagana Grains Center By Ms. Menchie R.Huang	Brgy. Mambabanga, Luna, Isabela	5
295.	AGT Builders And Const. Supply By Mr. Allan Ace G. Tacusalme	Brgy. Sillawit, Cauayan City, Isa.	4
296.	Juris Const. & Builders By Mr. Roldan E. Ubando	Brgy. Gundaway, Cabarroguis, Quirino	4
297.	Mr. Benito B. Martin, Jr.	Brgy. Cab. 9-11, City Of Ilagan, Isa.	2
298.	AAA Construction & Builders Inc. By Mr. Fortunato B. Mendoza	Brgy. Mangandingay, Cabarroguis, Quirino	5
299.	Lorenz Hardware By Mr. Lorenzo B. Uy, Jr.	Brgy. San Mateo, Tumauni, Isa.	4
300.	Mr. Pablo B. Juan	Brgy. Bangar, Alfonso Lista, Ifugao	5

301.	Joren's Concrete Products Trading By Mr. Anthony F. Caser	Brgy. Rizal, Santiago City, Isabela	1
302.	LB Gepilano Hardware And Agri Supply By Mr. Louie B. Gepilano	Brgy. Andres Bonifacio, Diffun, Quirino	2
303.	KRM Grainery Inc. By Ms. Marilyn E. Estabillo	Brgy. Batal, Santiago City, Isa.	4
304.	Mr. Joenard S. Galla	Brgy. Napaliong, Jones, Isabela	1
305.	Royal Firm Tumauni, Inc. By Mr. Ferdinand P. Bielgo	Brgy. Alibagu, City Of Ilagan, Isabela	4
306.	Ms. Yolanda B. Santiago	Brgy. San Isidro, City Of Ilagan, Isa.	3
307.	EAF Sand And Gravel Trading By Ms. Irene F. Andres	Brgy. Batal, Santiago City, Isa.	8
308.	Molina Hollowblocks Sand And Gravel Trading By Mr. Roldan R. Molina	Brgy. Ballesteros, Aurora, Isa.	12
309.	Mr. Josue M. Merlito	Brgy. Balintocatoc, Santiago City, Isa.	1
310.	Jay Arcie Construction And Supply By Mr. Jay Arcie S. Co	Brgy. Nabbuan, Santiago City, Isa.	10
311.	FJR Construction Supply By Mr. Francisco A. Cristobal, Jr.	Brgy. San Patricio, Delfin Albano, Isabela	3
312.	Valdez J. Hardware & Construction Supplies By Mr. Jhonloid R. Valdez	Brgy. San Antonio, Roxas, Isabela	1
313.	Vin-Jeff Construction By Mr. Vincent M. Javier	Brgy. Carig, Tuguegarao City, Cagayan	6
314.	OUA Construction By Mr. Orlando U. Agcaoil	Brgy. San Fermin, Cauayan City, Isa.	5
315.	Amianan Construction By Ms. Juliet S. Portugues	Brgy. Victoria, Alicia, Isabela	3
316.	Horrizon Construction By Mr. Leoven V. Andres	Brgy. San Andres, Aurora, Isabela	3
317.	Asian Acropolis Builders By Mr. Ralph R. Abella	Brgy. Calao East, Santiago City, Isa.	4
318.	Mr. Christopher M. Respicio	Brgy. Baculud, City Of Ilagan, Isa.	1
319.	V.B. Manubay Construction By Ms. Veronica B. Manubay	Brgy. Rizal, Santiago City, Isabela	20
320.	J.A.N. Construction By Ms. Jenefer Kate J. Nipahoy	Brgy. Aurora East, Diffun, Quirino	6
321.	ESP Construction Supply By Ms. Kristine Elisa B. Pua	Brgy. San Isidro, City Of Ilagan, Isa.	2
322.	CCI13 Balajadia's Hardware By Mr. Christopher L. Balajadia	Brgy. Roma Norte, Enrile, Cagayan	1
323.	Ms. Jovy I. Alcantara	Brgy. Apanay, Alicia, Isabela	10
324.	Mr. Danilo S. Lotino	Brgy. Usol, Jones, Isabela	3
325.	Steel Valley Hardware & Const. Supplies By Mr. Victor Angelo B. Ibasco	Brgy. Cubag, Cabagan, Isabela	3
326.	Ms. Divina L. Pabiona	Brgy. Pasa, City Of Ilagan, Isa.	2
327.	Sir Eli IV Trucking Services By Ms. Zarina N. Montero	Brgy. San Antonio Minit, Echague, Isabela	10
328.	Siffu Rocks Construction By Mr. Raymond Anthony C. Calderon	Brgy. San Placido, Roxas, Isabela	10

329.	Mr. Oscar A. Martinez	Brgy. Calamagui 1st, City Of Ilagan, Isa.	1
330.	Mr. Angelo M. Lopez	Brgy. Calamagui, San Pablo Isabela	5
331.	Ms. Jasmin Grace V. Bautista	Brgy. La Paz, Saguday, Quirino	1

**III. Field Monitoring of Quarry Areas**

**a. Regular Field Inspection and Monitoring**

This activity is in line with the implementation of Provincial Ordinance No. 5, series of 2014, to effectively regulate the utilization and monitor extraction activities. The primary goal is to ensure the implementation of all necessary environmental measures in the quarry areas. This includes conduct of random inspection of vehicles hauling and transporting sand and gravel materials. The inspections focus on verifying compliance to extraction measures, such as adhering to the policy of extracting in the main river bed, avoiding screening materials, confirming pre-payment of quarry fees and taxes, and issuance of notice to haulers/operators who have consumed pre-payments; simultaneously supervising ISEP-TF Operative personnel assigned in the quarry areas



*Some of the photos taken while monitoring of extraction activities, by ENRO Personnel and ISEP-TF Operative members in various quarry areas.*





Above: Site inspection of extraction areas in the Municipality of Dinapigue, Isabela;  
Below: Putting-up of warning signs ate extraction areas.



**b. Monitoring of Extraction Activities**

On the other hand, **thirty-two (32)** ISEP-TF Operative members were dispatched to conduct daily field monitoring of extraction activities in the different quarry areas in the province. Daily extraction monitoring reports, together with the delivery receipts, were submitted weekly in the office. These reports served as basis for the collection of taxes and other related fees by the Provincial Treasurer's Office.

For this year 2024, a total of 618,271.00 cu.m. of sand and gravel and other quarry resources extracted from fifty-eight (58) quarry areas monitored with active extraction activities in the province. This represents 21,286.00 cu.m. Ordinary Earth, 510,255.00 cu.m. Mixed, 4,871.00 cu.m. G1/S1 and 81,859.00 cu.m. Boulders; and with gross value amounting to Php 23,796,115.00 fees and taxes.

**Table 31.** *Monthly Extraction of Sand and Gravel Aggregates Based on Submitted Monitoring Reports.*

Month	Aggregates				Total Volume (cu.m)
	Ordinary Earth	Mixed Gravel	G1/S1	Boulders	
January	1,760.00	52,155.00	-	1,132.00	55,047.00
February	4,564.00	60,677.00	-	2,706.00	67,947.00
March	5,012.00	55,920.00	-	2,200.00	63,132.00
April	-	53,119.00	-	2,750.00	55,869.00
May	1,198.00	62,779.00	380.00	9,648.00	74,005.00
June	3,926.00	43,886.00	1,000.00	8,228.00	57,040.00
July	2,190.00	56,589.00	2,571.00	13,532.00	74,882.00
August	236.00	32,947.00	920.00	10,068.00	44,171.00
September	-	23,520.00	-	9,058.00	32,578.00
October	2,400.00	27,831.00	-	7,583.00	37,814.00
November	-	13,989.00	-	8,936.00	22,925.00
December	-	26,843.00	-	6,018.00	32,861.00

**c. Investigation and Settlement of Quarry and Mining Related Complaints**

In response to received letters from various entities, personnel of this office extended technical assistance in the conduct of investigation and settlement of quarry and mining related complaints. Together with the respective concerned agencies and individuals, field inspection and verification activities were implemented.

**March 6, 2024 – Investigation of an alleged quarrying activity at Barangays Planas and San, Miguel, Ramon, Isabela**

The purpose of the visit was conveyed during courtesy call to the Punong Barangay of Barangay. San Miguel. Assisted by their representative, the areas under dispute were inspected, onsite interview was conducted, and photos were taken as part of the documentation.



Upon tracing of pictures attached in the complaint, five specific areas were subjected for inspection and verification on the alleged quarrying activity. Based on the activities undertaken, the following were the findings:

**Table 32. Results of the Inspection and Monitoring on the Alleged Quarrying Activity at Brgy. San Miguel, Ramon, Isabela**

Complaint Area	Findings
Area 1	- The on-going development of LGU Ramon’s Eco-Tourism road. The Opening and Development of Eco-Tourism Road is a project by MLGU Ramon, Isabela covered by ECC with No. ECC-OL-R02-2023-0213 dated December 20, 2023 issued by the EMB R02. Said project was implemented by AF Manuel Construction and upon verification, quarry taxes and fees for the aggregates utilized in the said project is remitted to the Provincial Government. Also, a DPWH project in the area titled Construction of Access Road Leading to Rolling Hills, within Barangays Planas-San Miguel-Aguinaldo, Ramon, Isabela and is currently implemented by D.A. Cadeliña Construction. A copy of the project program was provided by the Municipal Engineering Office of Ramon.
Area 2	- The complaint area is within the Sanitary Land Fill (SLF) of the Municipality of Ramon, Isabela. The on-going extraction/ excavation is for the opening of the new SLF cell, a copy of the SLF Cell plan was provided by the Municipal ENR Officer of LGU Ramon. The equipment used is owned by the LGU and the ordinary earth extracted is stockpiled in the area to be used doe cell covering, as well as for maintenance and road widening activities of the LGU.
Area 3	- The area was claimed by Juny Bolasket a.k.a. Mok Mok Bantao as cited in the complaint. Mr. Bolasket claimed that the extraction is for the establishment of a fishpond. Although there was no actual extraction during the visit, a backhoe was seen in the area owned by a certain Edmun Bascos from Santiago City. And accordingly, extracted soil is transported to Santiago City clarifying that he is not selling the materials.
Area 4	- The area was claimed by Clayson Banhan, son of Ms. Rita Banhan as cited in the complaint. There was no actual extraction activity during the time of investigation but a backhoe was seen in the area. According to Mr. Banhan, the equipment is owned by former Barangay Kagawad Jose Bao-Ang of Planans, Ramon and that extraction of earth within his area is intended to level the land for farm development as shown by various forest and fruit trees planted in his area. Further explained that extraction is only conducted when there is a request to the owner for soil to be used in road maintenance of Barangay Planas.

Area 5	- Neither extraction activity nor presence of equipment seen in the area during the site inspection. The person cited as owner was not present.
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The complainant, however, was out of reach during the inspection. Findings were presented to the Punong Barangay which affirmed of their awareness of the activities and informed that they are monitoring through their barangay ordinance.

In the end, the Barangay LGU were recommended to inform their constituents of such activities for awareness, strengthen their monitoring of illegal activities within their jurisdiction, and report to the concerned agencies should there be occurrence of such. Claimants/haulers were also required to secure necessary permits for their extraction activities, and payments of quarry taxes and fees be made before extraction.



**Area 1:** The on-going construction of access road leading to the Rolling Hills, within Barangay Planas-San Miuuel-Aaualdo. Ramon, Isabela.



**Area 2:** Excavation of Cell 2 of the Sanitary Land Fill.





Area 3: First picture is the stockpile of earth extracted; second picture is the stockpile of DA Cadelina Construction used in the road project.



Area 4: Area of Mr. Juny Bolasket a.k.a. Mok Mok Bantao.



Area 5: Area of a certain Ging Ging Galion.



Residence of the complainant as stated in the letter.

**April 16, 2024 – Verification of alleged quarrying (earth-moving) activity at Barangay San Manuel, Naguilian, Isabela**

The DENR-CENRO Naguilian requested for technical assistance in response to the request emanated from a letter of LGU Naguilian seeking assistance to halt the quarrying activity in consideration of land ownership being in-question. Personnel of this office, together with MENRO Rachele Ramirez, PB Susan Calla and her barangay officials, and personnel of DENR-CENRO Naguilian, conducted site inspection and verification at the identified area which is located along the national highway, Purok 2, Barangay San Manuel, Naguilian, Isabela. The area, from being a forestland, was re-classified to alienable and disposable, allegedly claimed by a certain Joselito Valencia. However, based on DENR record, no Transfer of Title is yet awarded to any entity or individual.

During the investigation, no actual excavation was seen and no excavation equipment was present in the area. However, there were traces of extraction observed. According to the barangay officials, the extraction was made by Camberwell Construction with the permission of alleged claimant Mr. Joselito Valencia. Nevertheless as per office record, no quarrying permit has been issued to Mr. Valencia and Camberwell Construction in the said area.

Considering that there was no actual extraction during the visit and the complaint individual was not present, it was recommended that the barangay officials have to continue its monitoring for possible re-occurrence of extraction in the said area and report it immediately to the concerned offices. For any future extraction in their area of jurisdiction, haulers have to secure Certificate of No Objection from the barangay and Municipal LGU. And finally, for the DENR to immediately cause the resolution of the dispute over the complaint area.



**April 30, 2024 – Alleged Quarrying (earth-moving) activity at Barangay Magsaysay, Naguilian, Isabela**

Certain individuals reported an alleged earth quarrying at Barangay Magsaysay, Naguilian, Isabela. Based on documents attached to the letter, the complaint area is under land dispute between Mr. Randy Reyes/Mr. Faustino Reyes and Mr. Apolinar Quejada/Mr. Paul Tejada, with status quo order issued by DENR-CENRO Naguilian.

Together with the complainants and personnel of MENRO Naguilian, the area was inspected. No actual extraction was seen during the visit and no presence of extraction equipment. However, a portion of the hill was cut and removed; according to the complainants the extraction was conducted by equipment owned by Providers MPC with the consent of Mr. Randy Reyes.

Finally, this office recommended for the LGU thru the MENRO and the barangay officials to assist in the monitoring of extraction activities, and ensure such development has the necessary permits from them and other concerned agencies. Also, advised the complainants to request for the assistance of DENR to finally settle/resolve land dispute over the complaint area.



**July 4, 2024 – Assessment of the quarry operations in the Municipality of Cabatuan, Isabela**

With reference to a radio report relative to the quarry operations in the Municipality of Cabatuan, this office assessed the quarry operations in the Municipality of Cabatuan, Isabela. The radio report raise issues concerning the sand and gravel extraction activities in the Municipality of Cabatuan, affecting residents of Barangays Rang-Ay, Culing West, and Culing Centro.

In coordination with the LGU thru the Municipal Mayor, and together with LGU representative and barangay officials concerned, on-site interview of individuals mentioned in the report, ocular inspection, and aerial documentation along the stretch of Magat River from Barangay Rang-ay to Barangay Saranay, Cabatuan were conducted. Results were as follows:



**Table 33. Findings and Observations of the Assessment of Quarry Operations in the Municipality of Cabatuan, Isabela**

Barangay	Findings and observations
Rang-ay	- There is a common road leading to the extraction site established at the riverside. Only one hauler was allowed to extract hence only a portion of the river is being desilted and most of the abandoned pits at the middle of the river is not yet covered/rehabilitated.
Macalaoat	- No desilting operations
Culing Centro	- No operations during site visit. However, extraction wastes were observed stocked-up along the riverside as sloop protection to the farmlands.
Culing East	- No operations during site visit. However, extraction wastes were observed stocked-up along the riverside as sloop protection to the farmlands.
Culing West	- On-going operation was observed, undertaken in a certain portion at the middle of the river-bed. Extraction wastes were also seen along the riverside serving as slope protection of the farmlands. However, no common road is established going to the extraction site.
Paraiso	- On-going operation was observed. Only two operators were allowed by the barangay by virtue of Memorandum of Agreement.
Saranay	- On-going operation was observed. Only one operator was allowed and currently implementing at the build-up area of Magat River.

During the interview, residents particularly at Barangay Rang-ay requested assistance of the barangay officials to advise the operator to employ measures to minimize dust pollution on the road during transporting aggregates.



To facilitate gradual rehabilitation of the quarry areas while utilizing the removed materials for its economic value, this office recommended sustaining initiatives particularly stocking of extraction wastes along the riverbanks for slope protection. Priority areas for desilting and rehabilitation must be provided to operators before operation, and Barangay LGUs concerned must assist in ensuring that operators are operating in the priority areas. Operators should not scatter extraction pits, and should be covered immediately if no further extraction is intended for the area. There should only be a common road to the extraction site to avoid additional cause of shifting river way. Operators are also advised to conduct watering of access roads particularly at the residential areas to minimized dust pollution. The LGU Cabatuan and the concerned Barangays were requested to assist in the desilting activities; findings and recommendation were provided for their information and reference.



**Barangay Rang-ay:** Photos showing (Left) the common road established going to the operation site and the (Right) on-going operation site at the dried riverbed.



**Barangay Culing West** Photos showing (Left) current state of the river and the (Right) on-going operation site which is recommended to have a common road going to the extraction area.



**Barangay Culing Centro:** Photos showing (Left) current state of the river and (Right) the closer view of extraction wastes stocked-up along the riverside as slop protection to the farmlands.



**Barangay Culing East:** Photos showing (Left) current state of the river and (Right) the closer view of extraction wastes stocked-up along the riverside as slop protection to the farmlands.



**Barangay Paraiso:** Photos showing (Left) current state of river and (Right) the on-going operations of 2 operators.



**Barangay Macalaoat:** No operation

**Barangay Saranay:** Operation on-going at the build-up portion of Magat River.

**August 1, 2024 – Complaint on the quarry operation at Barangay Fura, Gamu, Isabela**

A communication was endorsed to this office by the Mines and Geosciences Bureau Regional Office 02 relative to a complaint of Mr. Ruben G. Estrada regarding the quarry (sand and gravel) operation at Barangay Fura, apparently affecting their lot adjacent the extraction area. A dialogue with the complainant, quarry operator and barangay officials was held prior to actual site inspection.



Based on record, the area has been applied with CSAG Permit by Mr. Jun P. Bulos. Part of the area is located south of the land of Loreto Menor, father-in-law of the complainant, claiming the land adjacent their lot as their accretion hence requiring for a royalty fee from the operator. However, due to issues in the ownership of the land, the operator cannot decide as to whom he should pay the fee.

During inspection, there was no actual extraction and accretion is not visible due to high water level. Nevertheless, daily monitoring picture in the area as submitted to the office, operation of Mr. Bulos is conducted at the main river-bed, which was also affirmed by the barangay checker. Also, considering the course of the river way and as observed, one of the possible causes of erosion of the accretion is the impact of the natural water current flow of the river especially when the water level is high.



It was concluded that relative to the quarry operation, no illegality was seen considering that extraction activities is within the applied area, prepayment of quarry fees and taxes are paid, and that it follows the directive of extracting in the middle of the river to assist in the desilting efforts of the provincial government. Also, this office has no jurisdiction over the issue of royalty fee; hence, recommendations were given to the involved entities: 1) the quarry operator to maintain the extraction activities within his applied area and at the

center of the river. He was also advised to avoid extraction in the part opposite the lot under dispute until such issue on land ownership is resolved; 2) for the complainant to settle issue of ownership with the person involve and the quarry operator to monitor the resolutions made for his guidance as to whom he shall pay royalty; and, 3) the barangay officials to recommend the area for engineering embankment project to keep the land from the impact of strong natural water current.

Findings and conclusions were conveyed to the concerned, for their information and guidance.

**September 24, 2024 – Investigation and verification of an Alleged Illegal Mining at Barangay San Manuel, Naguilian, Isabela**

The activity emanated from an endorsed communication from the MGB-R02 regarding an alleged illegal mining at Barangay San Manuel, Naguilian, Isabela. Site inspection and verification were made together with the complainants, representatives of LGU Naguilian thru MENRO and barangay officials of San Manuel.

Area of complaint was found to be under the name of Johnson Leal (deceased), father of the complainants. The LGU and Barangay has already conducted investigation of the matter which confirmed that eight (8) individuals were involved in the operation and were issued with verbal warning to stop the illegal activity. During the site inspection, no operation was seen; however, three (3) mining pits/holes and one (1) makeshift bunkhouse were abandoned in the area.

This office recommended the land heirs/complainants and the barangay officials to do the filling-up/closing of the pits/homes to avoid untoward incidents or continuation of the illegal activity. Also, the Municipal LGU was advised that they can issue Cease and Desist Order or Stoppage Order if and when there is re-occurrence of said activity if no permits were provided.





**d. Other Related Activities**

**1. Attendance to Meetings as Member to Governing Bodies Related to Mineral Resources Management**

As member to the different governing bodies related to mineral resources management, the Provincial Government of Isabela through this Office attended to the following, to wit:

**October 22-25, 2024** – Attended and participated in the Provincial/City Mining Regulatory Board (P/CMRB) Workshop conducted by Artisanal Gold Council of PlanetGold Philippines in coordination with the DENR-Mines and Geosciences Bureau (MGB) central Office. The four-day workshop sought to establish the responsibilities of national and local governments in helping the P/CMRB under Republic Act No. 7076 with DAO 2022-32. As for the rest of the support roles, the workshop outputs serve as documentation and reference to improve the roles and determine the needs and functions of the P/CMRB.



**2. Attendance/Participation to Invitations to Meetings/Dialogues and Request for Technical Assistance Related to Mineral Resources Management**

In response to invitations to meetings/dialogue and requests for technical assistance related to mineral resources management, the Provincial Government of Isabela through this Office attended and joined in the following, to wit:

**July 10, 2024** – Attended a committee hearing in aid of legislation as a Resource Person during a special session of the Sangguniang Bayan of the Municipality of San Agustin, Isabela. Said hearing concerns the issue raised by the people of Barangay Dabubu Pequeño relative to the quarry operation in the said barangay. Among the queries involve the process implemented on quarrying and permitting, the status of the said activity at Dabubu Pequeño, and in the whole municipality.

**September 4, 2024** – Joined the Mines and Geosciences Bureau R-02 in the issuance of Cease and Desist Order to identified small-scale miners within the permitted area of Cordillera Exploration Co., Inc. at Barangay Anonang, Cordon, Isabela.



*Photos taken during the issuance of Cease and Desist Order to identified small-scale miners within the permitted area of Cordillera Exploration Co., Inc. located at Barangay Anonang, Cordon, Isabela.*



**ACTIVITIES  
UNDERTAKEN IN  
SUPPORT OF ILAGAN-  
DIVILACAN ROAD  
REHABILITATION &  
IMPROVEMENT  
PROJECT (IDRRIP)**

**ACTIVITIES UNDERTAKEN IN SUPPORT OF  
ILAGAN-DIVILACAN ROAD REHABILITATION & IMPROVEMENT PROJECT (IDRRIP)**

***I. Maintenance & Protection of the Established 1,200-hectare Reforestation Areas***

The 1,200-hectare reforestation project in support of the Ilagan-Divilacan Road Rehabilitation and Improvement Project entered its fourth and final year of implementation per its approved development plan. Initiated in August 2020, the project is being carried out by the winning contractor, Rang-ayan Nature Spring Multi-Purpose Cooperative. In 2024, Year 3 maintenance and protection activities were conducted to ensure a high survival rate of the approximately 1,032,763 planted seedlings in various reforestation areas within the City of Ilagan, Isabela. Most maintenance activities were scheduled during the summer to prevent fire incidents. Monitoring and documentation of progress were carried out by ENRO and ISEP-TF personnel, along with the inspectorate team.

The highlights of observations for each project area, as per submitted reports, are as follows:

1. 50-Hectare IDR Roadside Reforestation Project along Ilagan-Divilacan Road at Sindun Bayabo, City of Ilagan, Isabela
  - Seedlings planted along the roadside areas of the IDR showed notable height growth compared to the previous year.
  - Maintenance activities such as brushing, cultivation, and fertilizer application were conducted.
  - The area is planted with indigenous forest tree species, including Narra, Tindalo, Ipil, and Dipterocarp species.
  - An inspection was conducted on December 10-11, 2024, by inspectorate team comprising ENRO, PGSO, PPDO, PSWDO, and OPE personnel. The report confirmed that year 3 maintenance and protection activities, as outlined in the approved work and financial plan, were implemented and are ready for billing.
2. 250-Hectare RTA 1 Million Trees in 1 Day Reforestation Project along Sitios Disipun (Km. 14), Lagis (Km. 17), and Trailer (Km. 21), Sindun Bayabo, City of Ilagan, Isabela.
  - Seedlings in three areas – Sitios Disipun, Lagis and Trailer – demonstrated growth in height.
  - Maintenance activities such as brushing, ring weeding, watering, and cultivation were observed during monitoring.
  - Indigenous forest tree species, including Narra, Tindalo, Ipil, and Dipterocarp species, were planted.
  - Inspection was conducted on December 10-11, 2024, with the report confirming that year 3 activities were implemented and ready for billing.
3. 100-Hectare Coconut Plantation-Project located with the forest areas of Villa Imelda, City of Ilagan, Isabela
  - Dwarf coconut seedlings showed significant growth in height.
  - Maintenance activities were observed during monitoring.

- Inspection on December 10-11, 2024, verified that year 3 activities were implemented and ready for billing.
4. 460-Hectare Agro reforestation Project located with the Forest areas of Villa Imelda, City of Ilagan, Isabela.
    - Seedlings, including mango, rubber trees, and indigenous species like Narra, demonstrated noticeable growth.
    - Maintenance activities such as brushing, cultivation, and fertilizer application were conducted.
    - Inspection on April 26, 2024, confirmed that year 2 activities were implemented and billed. Year 3 activities were also conducted and will be inspected in the first quarter of 2025.
  5. 340-Hectare Reforestation Project with Forest areas of Villa Imelda, City of Ilagan, Isabela
    - Indigenous forest tree species such as Narra, Tindalo, Ipil, Dipterocarp species, and bamboos showed increase in height.
    - Maintenance activities, including brushing and cultivation, were performed.
    - Inspection on April 26, 2024, verified that year 2 activities were implemented and billed. Year 3 activities were conducted and will be inspected in the first quarter of 2025.

In summary, the activities outlined in the approved Work and Financial Plan for the fourth year of the reforestation projects were completed. The survival rate of seedlings remains high, and no forest fire incidents were reported in the reforestation areas.



*Photos of monitoring and inspection at Ilagan-Divilacan Road Reforestation Project on December 26-27, 2024*







**II. Other Activities Along IDR**

Personnel of the ENR Office, in collaboration with the Liga ng mga Barangay (LnB) officials from various cities and municipalities, conducted a site visit, nature appreciation activity, and ceremonial tree planting in the IDR reforestation areas.

This initiative started from a meeting with LnB National President, Hon. Maria Katrina Jessica A. Dy, to explore potential collaborations with ENRO and LnB officials. During the visit to the Disipun and Trailer reforestation areas, LnB officials commended the Provincial Government’s efforts to restore degraded areas.

The activity concluded with a ceremonial tree planting at Sitio Disipun, Barangay Sindun Bayabo, City of Ilagan, Isabela where 100 forest tree seedlings were planted. The LnB President, Hon. Jessica Dy, expressed gratitude to the Provincial Government through ENRO, emphasizing the importance of continuing partnership for environmental conservation and protection.



*Photos during site visit, nature appreciation activity, and ceremonial Planting by the LnB Officials at IDR reforestation areas.*





# ESTABLISHMENT OF 300- HECTARE REFORESTATION PROJECT AWARDED BY DENR TO THE PROVINCIAL GOVERNMENT

**ESTABLISHMENT OF 300-HECTARE REFORESTATION PROJECT AWARDED  
BY DENR TO THE PROVINCIAL GOVERNMENT**

The 300-hectare reforestation project under the tree-cutting replacement program of Dinapigue Mining Corporation, awarded by the DENR to the Provincial Government, commenced implementation in 2024. The project aimed to restore degraded forestlands while complying with environmental regulations. Activities were carried out by the Provincial Government with supervision from DENR-CENRO Naguilian, and included site delineation, stakeholder dialogues, seedlings inspection, plantation establishment, and first-year maintenance. Below are the highlights:

**Highlights of Implementation**

*1. Site Inspection and Validation (April 17-26, 2024)*

ENRO and DENR personnel inspected and validated the reforestation site. The area was delineated, revealing 27 forest occupants' cultivation portions of the project site. Existing vegetation included fruit and forest trees, bananas, and cassava. Instances of slash-and-burn farming were also noted.



*2. Dialogue with Forest Occupants (May 2024)*

A dialogue was held with forest occupants and the contractor at the Rattan Facility, Cabisera 10, City of Ilagan, Isabela. The reforestation project's objectives and guidelines were presented. Most occupants expressed willingness to cooperate and comply with project regulations.



*3. Seedlings Inspection (July 11-12, 2024)*

ENRO assisted DENR in inspecting seedlings at four nurseries in Sitio Disipun, Sindun Bayabo, Rang-ayan, and the Provincial Nursery. A total of 187,946 seedlings were inventoried, meeting the project's requirement. To address 10% mortality rate, an

additional 18,304 seedlings were planned for production during the three-year maintenance period.

- Nursery 1 (Sitio Disipon): 37, 869 seedlings
- Nursery 2 (Brgy. Rangayan): 102,215 seedlings
- Nursery 3 (Brgy. Rangayan): 30,003 seedlings
- Provincial Nursery: 17,859 seedlings



4. *Plantation Establishment Monitoring (August-November 2024)*

ENRO, ISEP-TF and DENR-CENRO Naguilian personnel monitored site preparation, staking, planting, and over-all progress. Despite delays caused by consecutive typhoons, plantation establishment was completed in November 2024. In addition, the provincial government had also distributed around 2,056 fruit-bearing tree seedlings to affected occupants of the project as part of the agreement reached during the dialogue with them.



5. *Plantation Establishment Inspection (November 19-30, 2024)*

A joint ENRO-DENR CENRO Naguilian inspection verified the completion of planting activities. A total of 187,500 indigenous seedlings were planted across the reforestation area.

6. *First-Year Maintenance Inspection (December 26-27, 2024)*

Maintenance activities including ring weeding, brushing, and replanting were inspected and confirmed completed. Additional measures included installing 10 signages and 40 pole markers across the site.

**Summary of Accomplishments**

The first year of 300-hectare reforestation project was successfully completed. As confirmed by DENR CENRO Naguilian and ENRO inspection reports. Activities in 2024 laid the groundwork to sustainable forest restoration, meeting project objectives. The project will continue with second and third-year maintenance activities in 2025-2026, as detailed in the approved Work and Financial Plan.





# INTERVENING AND OTHER RELATED ACTIVITIES

**INTERVENING AND OTHER RELATED ACTIVITIES**

**I. Activities Undertaken Under the Philippines Rural Development Project (PRDP) – Social and Development Safeguards (SES)**

As a member of the Provincial Project Management & Implementing Unit (PPMIU), technical personnel from this office assisted in crafting and securing all required SES documents for the proposed two PRDP farm-to-market road projects located in Gamu and Cordon, Isabela. Public consultations with subproject beneficiaries were conducted in adherence to the Integrated Environmental and Social Safeguards Framework, which includes the following components:



- Indigenous Peoples Framework
- Social safeguards Framework
- Environmental Safeguards Framework
- Grievance Mechanism Framework

In addition, technical personnel participated in joint technical inspection to validate the work progress of the contractor for the on-going San Juan-Barucbuc-Estrada-Dummon Farm-to-Market Road subproject in Quezon, Isabela.

**II. Risk Resiliency Program Thru Cash-For-Work/Training (RRP-CFW-T)**

Risk Resiliency Program through Cash-for-Work/Training (RRP-CFW/T) is a Department of Social Welfare and Development (DSWD) program implemented in partnership with Local Government Units (LGUs) nationwide. This program is part of the CCAM-DRR Cabinet Cluster initiative, in which DSWD plays a vital role. The program aims to:

1. Build climate and disaster-resilient communities that promote equitable and sustainable development.
2. Strengthen adaptive social restoration mechanisms.

As the Provincial Focal Person for this program, technical personnel from this Office participated in various activities throughout C.Y. 2024. Below are the highlights:

- February 6, 2024: Participated in the Orientation and Planning Workshop for the RRP-CCAM through Cash-for-Work/Training for C.Y. 2024 implementation. The workshop produced action plans for each city/municipal LGUs to ensure that program phases are completed within the target timeline.
- February 20-21, 2024: Attended the Project Design Validation Workshop for the B-SPARED project, which was integrated into the RRP-CFW/T to maximize resources for the benefit of both the project beneficiaries and the environment.
- April to June 2024: Implemented the program in six target Local Government Units (LGUs). Identified beneficiaries constructed project LAWA and BINHI conducted tree planting activities within their designated sites.
- July 2024: Completed the pay-out of beneficiaries.

**Table 34.** Detailed Accomplishment Report for RRP Cash for Work

No.	City/Municipality	Date Started	Date Finished	No. of beneficiaries	Budget
1.	Burgos	April 11, 2024	May 14, 2024	210	1,764,000.00
2.	City of Ilagan	April 23, 2024	June 04, 2024	1,087	9,130,800.00
3.	Delfin Albano	April 17, 2024	June 11, 2024	167	1,402,800.00
4.	Echague	April 29, 2024	June 06, 2024	780	6,552,000.00
5.	Palanan	May 21, 2024	June 20, 2024	421	3,536,400.00
6.	San Mariano	May 08, 2024	June 14, 2024	1,019	8,559,600.00
<b>T O T A L</b>				<b>3,684</b>	<b>30,945,600.00</b>

In summary, the program was successfully implemented despite challenges in coordination and abrupt changes in guidelines, achieving its objects of resilience-building and environmental sustainability.



**III. Isabela League of Local Environment and Natural Resources Officers (ILLENRO) Regular Business Meeting**

This Office facilitated the Isabela League of Local Environment and Natural Resources Officers (ILLENRO) Regular Business Meeting, which served as a platform for members to convene, exchange knowledge, and discuss vital matters. The discussions centered on efficient implementation of



various devolved environment-related programs, projects and activities by LGUs, as mandated under RA 7160 and reinforced by the Mandanas Rule. This initiative highlights the Province of Isabela’s commitment to Good Governance and sustainable environmental management.

**IV. Oyster and Mussel Project**

The establishment of oyster and mussel farms in the coastal municipalities of Divilacan and Palanan, Isabela is continuously being implemented by the Provincial Government of Isabela in collaboration Bureau of Fisheries and Aquatic Resources (BFAR) and the concerned MLGUs.

The project is one of the initiatives of the province to promote shellfish industry in Isabela and provide benefits to the fisherfolks and residents of coastal municipalities promoting sustainable culture farming in addition to the current seasonal fishing.



For 2024, the following were the highlights of accomplishment for the project, to wit:

- Monitoring of the project on the months of June and October, 2024. Oysters showed increased of oyster spats on the collectors (empty shells of oyster) and in the plastic drums. The newly installed green mussel was also observed which showed potential as compared to last year's stock which did not survive.
- The team also observed the occurrence of algae (lumot) in the oyster spat collectors and the bamboo poles of the rafts were deteriorating. Hence, maintenance activities should be conducted to replace the bamboo poles and removed the algae in the spat collectors.
- For this year, (6) six typhoons or natural hazards cause massive damages and impact that greatly affects the status of the oyster and mussel project in the coastal municipalities. The following damages were reported:
  - Barangay Dimasalansan, Divilacan - Ten rafts sustained minor damages; immediate repairs are needed to prepare.
  - Barangay Bicobian, Divilacan - Three rafts sustained severe damages (broken braces and missing floaters). Repairs and adjustments are required.
  - Barangay Maligaya, Palanan - Only three oyster rafts remained anchored and the other rafts were drifted away by strong currents and high winds and were not able to recover.
  - Green Mussel Culture in Barangay Bicobian - Green mussel spats did not survive due to typhoons and strong winds to include the inadequate caretakers' training.

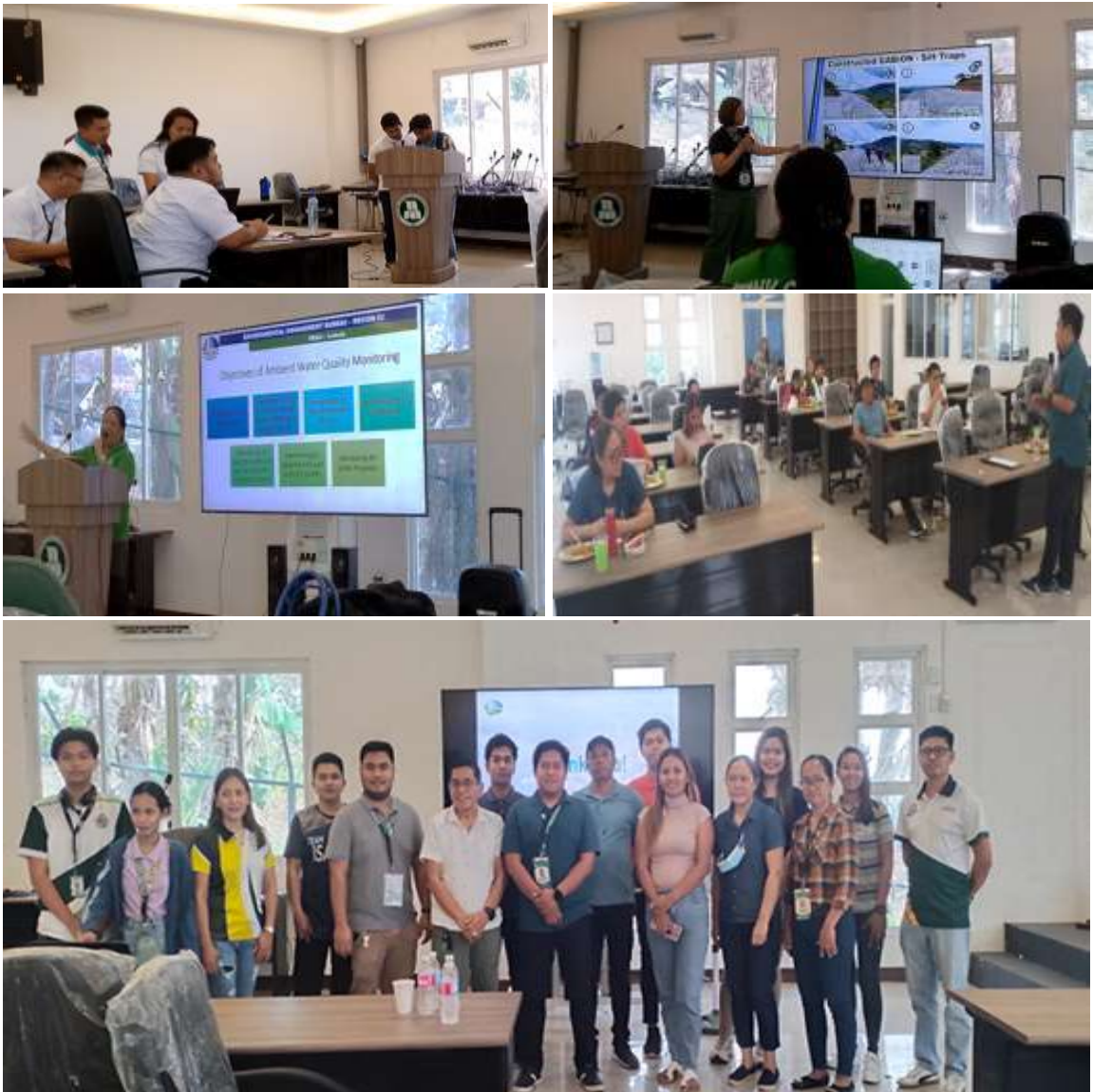


- In the month of December, the replacement of bamboo rafts on the Oyster Project located at Divilacan, Isabela is on-going.



**V. Capacity-Building Training of Multipartite Monitoring Team (MMT) for the National Irrigation Administration-Tumauni River Multipurpose Project (NIA-TRMP)  
March 5-6, 2024**

The Capacity-Building Training for the Multipartite Monitoring Team (MMT) of the NIA-Tumauni River Multipurpose Project was conducted to enhance capabilities in development, watershed management, and environmental monitoring. Key topics included monitoring protocols, record-keeping, timely submission of MOAs, impact assessments, and forming additional Multi-sectoral Monitoring Teams to strengthen compliance. The training, held at the R02 DRD Conference Hall, Barangay Antagan 1<sup>st</sup>, Tumauni, Isabela, emphasized the importance of environmental stewardship in large-scale irrigation projects.



*Capacity-Building Training for the Multipartite Monitoring Team (MMT) for the National Irrigation Administration-Tumauni River Multi-purpose Project (NIA-TRMP) R02 DRD Conference Hall, Barangay Antagan 1<sup>st</sup>, Tumauni, Isabela*

**VI. Joint Benchmarking and Study Tour on Effective Solid Waste Management  
April 10-13, 2024**

ENRO personnel participated in a benchmarking and study tour to key facilities such as Alpha Development Solutions, Inc. (Muntinlupa City), Resiklo Machine Shop (Cavite), and LGU Malvar (Batangas). The tour provided insights into innovative waste management practices, including the use of glass-crushing machines, plastic shredders, vermi composting techniques, and partnerships under the EPR Act. These initiatives showcased practical methods for transforming waste into saleable products and enhancing solid waste management systems.



*Joint Benchmarking and Study Tour on Solid Waste Management in Batangas, Cavite, and Muntinlupa City.*

**VII. Joint Conduction of Water Testing of Deep Wells**  
**April 16, 2024**

In response to a request by the Municipal Health Officer of Naguilian, Isabela, ENRO personnel, in coordination with the Isabela Provincial Health Office (IPHO), conducted water testing in barangay Villapaz, Naguilian, Isabela. Samples were collected to evaluate water quality and availability. Results, expected after two weeks, will guide recommendations on chlorination and compliance with RA 9275 (Clean Water Act) and local ordinances, including safe well-sewage distance standards.



*Conduct of Water Testing of Deep Wells at Brgy. Villapaz, Naguilian, Isabela*

**VIII. 2-day Solid Waste Management (SWM) Summit**  
**June 25-26, 2024**

ENRO personnel participated in the Regional Solid Waste Management Summit held in Tuguegarao City. The summit, part of the 2024 Environment Month Celebration, focused on the Extended Producer Responsibility (EPR) Act of 2022 (RA 11898), marine litter prevention, and waste diversion mechanisms. Participants gained insights into e-waste disposal, zero-waste targets, and the critical roles of LGUs in achieving sustainable waste management practices.

*Solid Waste Management (SWM) Summit in Tuguegarao City, Cagayan*



**IX. Water Analysis Techniques (WAT101) Training  
October 3-4, 2024**

Personnel underwent specialized training on Water Analysis Techniques (WAT101) conducted by Nanotech Analytical Services and Training Corporation (NASAT Labs) located in Muntinlupa, Metro Manila. The training covered key water quality parameters pH, BOD, COD, and nutrient levels – an introduced modern instrument such as the HORIBA Laqua meter. Practical sessions included sampling and compliance procedures enhance environmental monitoring and laboratory practices under RA 9275.



*Water Analysis Technique (WAT101) at Poblacion (Daang Hari), Muntinlupa City*

**X. Public Hearing on the Proposed Classification of Bintacan River  
December 12, 2024**

ENRO representatives attended the public hearing on the proposed water classification of Bintacan River, led by DENR-EMB R02. Discussions highlighted the river's water quality status under the Philippine Clean Water Act (RA 9275). While most parameters met Class AA to B standards, high fecal coliform levels resulted in the river being classified the DENR-EMB as Class C for public use.



*Public Hearing on the Proposed Classification of Bintacan River at Brgy. Batong Labang Hall (Gymnasium), City of Ilagan, Isabela*

**XI. Gender and Development (GAD) Activity: 2-day Skills Training on Waste to Product  
September 17-20, 2024**

ENRO, in partnership with local agencies, conducted 2-day skills training on waste to product. This training aimed to foster community involvement and reinforce participants ability to implement sustainable practices in their respective municipalities.



*Photos during the 2-day Skills Training on Waste to Product*

**XII. Earth Day Celebration**

On April 22, 2024, ENRO actively celebrated Earth Day by engaging personnel in nursery operations, including seedling bed improvements, soil potting, transplanting, and plant care. A quiz bee on environmental conservation further enhanced awareness of ongoing programs and initiatives.



*Group photo following the clean-up drive and quiz bee, participated in by ENRO personnel and Job Order service providers as part of the Earth Day celebration.*



*Photos showcasing ENRO personnel, Job Order service providers, and ISEP-TF operatives participating in the clean-up drive at the Provincial Eco-Park swamp area in celebration of World Water Day.*

**XIII. Coastal Landscape Restoration cum Month of the Ocean Celebration**

From May 30 to June 1, 2024, the Provincial Government of Isabela, through its Environment and Natural Resources Office, Isabela Coastal Development Office, and Provincial Youth Development Office, in collaboration with the Department of Environment and Natural Resources Region 02 and the Municipality of Dinapigue, with special participation from the Isabela Tourism Office and the National Commission on Indigenous Peoples – Isabela organized the event, titled "Mobilizing Coastal Communities for Foreshore Landscape Restoration through Riparian Development and Erosion Control Measures." Held in Dinapigue, Isabela, the event featured presentations, workshops, tree planting, and coastal clean-up activities, enhancing awareness and active participation in coastal ecosystem conservation.



Highlights included lectures on biodiversity, planning techniques, bioengineering structures, and ecotourism, as well as action planning workshop for sustained community participation.



*Mobilizing Coastal Communities for Foreshore Landscape Restoration through Riparian Development and Erosion Control Measures cum Month of the Ocean Celebration from May 30-June 1, 2024 at Dinapigue, Isabela.*

#### **XIV. Greenhouse Gas (GHG) Inventory Workshop for Local Focal Persons**

On October 17, 2024, ENRO conducted a workshop on “Data Preparation for the Waste Sector and Greenhouse Gas (GHG) Inventory Community Level.” Ninety-one participants from LGUs and provincial officers were trained in GHG accounting methodologies and emission calculations, strengthening their capacity for climate action and sustainable waste management.



*Pictures taken during the Data Preparation for Waste Sector and Greenhouse Gas (GHG) Inventory Community Level for Provincial/City/Municipal Focal Persons.*



**XV. Global Handwashing Day Discussion**

As part of the 35<sup>th</sup> national Statistics Month celebration, ENRO observed Global Handwashing Day on October 15, 2024. Engr. John Ian C. Espejo II led discussions on the theme, “Why Are Hands Still Important?” emphasizing the role of hand hygiene in public health.



*Pictures taken during the Global handwashing Day Discussion.*

**XVI. Gender and Development (GAD) Activity: Intensive Skills Training on Rattan Basket Weaving**

ENRO, in partnership with local agencies, conducted 4-day intensive skills training on rattan basket weaving for men and women. The activity aimed to empower communities through skills development, fostering economic opportunities aligned with environmental sustainability.





*Pictures taken during the Gender and Development (GAD) Activity: Intensive Skills Training on Rattan Basket Weaving*

**MEETING, CONFERENCES, CONVENTIONS, TRAININGS AND OTHER EDUCATION PROGRAMS**

**ATTENDED**

<b>Date</b>	<b>Meetings/Trainings/Seminar/Webinar/Workshop Title</b>
January 17, 2024	Online Orientation of the Provincial Development and Physical Framework Plan (PDPFP)
January 18, 2024	Orientation on the Preparation of PDPFP
January 22, 2024	Advancing the Interest of an Archipelagic Nation: The Role of Local Government in Enhancing the Country's Marine Resources & Maritime Spaces
January 24-26, 2024	Leadership Strategic Thinking and Effective Handling of Employees (for Supervisor and Manager)
January 30, 2024	Orientation-Workshop on the Local Energy Code, Energy Efficiency & Conservation Enabling Policies, and Mandatory Roles of LGUs
February 7, 2024	Pre-assessment Phase for the Introduction of the Urban Biodiversity Assessment
February 20-21, 2024	B-SPARED Project Design Validation Workshop
February 21, 2024	11th Regular Meeting of the Provincial Statistics Committee (PSC)- Isabela
February 22, 2024	1st Regular Meeting of the Fuyot Spring National Park-Protected Area Management Board (FSNP-PAMB)
March 5-6, 2024	Tumauini River Multi-Purpose-Multipartite Monitoring Team (TRMP-MMT) Capacitation Training
March 6, 2024	Water Quality Management Area-Calao-Deliquente-Diadi (WQMA-CDD) 1 <sup>st</sup> Quarter Governing Board and Stakeholders Meeting
March 12-14, 2024	Training-Workshop on Developing the Local Energy Code (LEC) and Formulation of the Local Energy Efficiency and Conservation Plan (LEECP)
March 11-16, 2024	1 <sup>st</sup> Quarter MMT Field Validation and 1 <sup>st</sup> Quarter Meeting of Dinapigue Mining Corporation
March 18-19, 2024	1 <sup>st</sup> Isabela Gender and Development Summit
March 18-20, 2024	Regional and Urban Physical Planning for the Updating of the Cagayan Valley Regional Physical Framework Plan
March 20, 2024	Provincial Coordinating Board for 2024 Community-Based Monitoring System
April 5, 2024	1 <sup>st</sup> Quarter Provincial Environment Law Enforcement Council (PELEC) Meeting
April 8, 2024	Isabela Tourism Development Plan TWG Write-up Team
April 16, 2024	DTI Information Dissemination Forum regarding Forest Genetic Resources such as Wood, Bamboo, and Rattan
May 3, 2024	Orientation on Mainstreaming Integrated Coastal Management to Existing CLUP of the Coastal Municipalities
May 20, 2024	Taiwan Technical Mission in the Philippines Meeting
May 22, 2024	Marine Protected Area Network (MPAN) Meeting & Workshop
May 27-June 1, 2024	2nd Quarter CY 2024 MMT Field Validation of DMC
May 29-30, 2024	Workshop for the Final Drafting of the Site Management Plans of Pananabban Creek, Sinasadigan Creek, and Pidpidiong Cave
June 18, 2024	Writeshop for Final Drafting of Pananabban, Sinasadigan Creek and Pidpidiong Cave Site Management Plan
June 19, 2024	Participatory Climate Risk Mapping Workshop

June 25-26, 2024	2024 Stakeholders' Forum with the theme: "Elevating Responsible and Sustainable Mining towards Stronger Community Partnerships"
June 25-26, 2024	2-day Solid Waste Management Summit/Orientation/ Capacity
June 26, 2024	2 <sup>nd</sup> Quarter PELEC Meeting
June 26, 2024	2 <sup>nd</sup> Quarter Meeting the PSC-Isabela
August 12, 2024	Serbisyo Caravan
August 13-16, 2024	15th Philippine League of Local Environment and Natural Resources Officers (PLENRO), Inc. National Convention
August 14, 2024	Workshop for the Determination of City Biodiversity Index (CBI) of the Urban Biodiversity Assessment (UBA) within the City of Ilagan, Isabela
August 16, 2024	MPAN Meeting
August 19-24, 2024	2 <sup>nd</sup> Quarter MMT Field Validation of DMC
August 20, 2024	Orientation of Isabela Officers and Employees
	Northern Sierra Madre Natural Park-Protected Area Management Board (NSMNP-PAMB) Technical Working Group (TWP) Meeting
August 22-23, 2024	Local Governance Summit 2024
August 28-30, 2024	Oil Spill Awareness and Emergency Response Course
August 29, 2024	1st Government Energy Management Program (GEMP) Regional Summit - Luzon
September 16-19, 2024	Benchmarking at Biak na Bato National Park & Bataan National Park
September 20, 2024	3 <sup>rd</sup> Quarter PELEC Meeting
September 20, 2024	3 <sup>rd</sup> Quarter CY 2024 Governing Board Meeting of the WQMA-CDD
October 2-5, 2024	Marine Turtle Conservation- Partnership Development & Capacity Building Session
October 22-25, 2024	Provincial/City Mining Regulatory Board (P/CMRB) Workshop
October 22-27, 2024	Society of Filipino Foresters Inc (SFFI) National Conference
October 28-31, 2024-	Training/Orientation: "Understanding Environmental Policies: A Collaboration Approach"
November 4-6, 2024	4th Quarter MPAN Committee Meeting and Workshop
November 7, 2024	WQMA-CDD Special Meeting
November 11, 2024	Tumauini Watershed Natural Park (TWNP) Meeting
November 14-15, 2024	2-Day Training on GAD Analysis
November 14-15, 2024	Updating of the Ecotourism Management Plan
November 20, 2024	4th Quarter Mines Rehabilitation Fund Committee Meeting of the DMC
November 22, 2024	LPTRP Writeshop
November 27-28, 2024	Writeshop cum Stakeholders' Consultation of the TWNP
December 2-7, 2024	4th Quarter Meeting of MMT Field Validation of the DMC
December 9, 2024	4th Quarter Regional Management Conference
December 17-18, 2024	GAD Analysis Utilizing
December 19, 2024	Provincial Micro, Small & Medium Enterprises Development Council Meeting
December 20, 2024	14th PSC-Isabela Regular Business Meeting
December 26, 2024	Mine Rehabilitation Fund Committee (MRFC) Meeting for the review and approval of the proposed 2025 Annual Environmental Protection and Enhancement Program (AEPEP) of DMC

**THE ENRO PERSONNEL**

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JACQUELYN S. BUCALA	Administrative Aide II
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*ENR Officer*

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*Governor*

**Ecclesiastes 4:9,12**

*“Two are better than one because they have a good return for their labor:  
Though one may be overpowered, two can defend themselves. A cord of three strands is not quickly  
broken.”*

## **Trees**

*By: Joyce Kilmer*

**I think that I shall never see  
A poem lovely as a tree.**

**A tree whose hungry mouth is prest  
Against the earth's sweet flowing breast;**

**A tree that looks at God all day,  
And lifts her leafy arms to pray;**

**A tree that may in summer wear  
A nest of robins in her hair;**

**Upon whose bosom snow has lain;  
Who intimately lives with rain.**

**Poems are made by fools like me,  
But only God can make a tree.**

