



Provincial Government of Isabela
ENVIRONMENT AND NATURAL RESOURCES OFFICE

ANNUAL ACCOMPLISHMENT REPORT

2023



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Prologue

In pursuit of environmental integrity, the Provincial Government of Isabela, under the visionary leadership of the Governor, Hon. Rodolfo T. Albano III and Vice Governor, Hon. Faustino G. Dy III, alongside the unwavering support of the Provincial Administrator, Atty. Noel Manuel R. Lopez and the Environment and Natural Resources Officer, For. Geronimo P. Cabaccan, Jr., and the whole ENR Office Family, has been dedicated to developing and safeguarding its extensive natural resources and life support systems. Aligned with the mandates of the Local Government Code, the province has formulated a strategic framework consisting of prioritized programs, projects, and activities. These initiatives not only reflect the government's commitment but also its shared responsibility with the national government in managing and maintaining ecological balance with its territorial jurisdiction.

Guided by the core principles of the current administration, these endeavors are spearheaded by the province's esteemed leaders and officials. This collaborative effort ensures the effective implementation of various Programs/Projects/Activities (PPAs) designed to address key environmental concerns and contribute to the overarching goals of sustainable development.

These achievements stand testament to the Provincial Government's dedication to creating a harmonious balance between development and environmental well-being. By prioritizing the welfare of all Isabeleños, these initiatives aim to foster a sustainable and healthy environment for the benefit of present and future generations.

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FOREST MANAGEMENT & CONSERVATION DIVISION

FOREST MANAGEMENT AND CONSERVATION DIVISION

I. Nursery Operations & Maintenance

In 2023, a total of 65,595 assorted seedlings were cared for in the Provincial and Clonal Nurseries. Among these, 30,407 assorted fruit and forest tree seedlings, including bamboo propagules, were procured, produced, and attended to. Additionally, 35,856 assorted seedlings were distributed to various public and private entities including city/municipal/barangay LGUs, POs/NGOs/, cooperatives, schools, and government agencies such as the Philippine Army and Philippine National Police, in support of greening activities.



Unfortunately, due to the El Niño phenomenon and other unavoidable circumstances, a mortality rate of 13.44% equivalent to 8,820 seedlings, was incurred and recorded. The seedling inventory is detailed in the Table I below.

Table 1. Inventory of Seedlings at Provincial Nursery

Particulars	Previous Stock Balance (2022)	Procured and Produced	Total	Disposed	Mortality	Remaining Stock Balance (Dec. 31, 2023)
Forest tree seedlings	14,921	11,779	26,700	13,532	4,685	8,483
Fruit tree seedlings	17,547	11,028	28,602	12,842	3,826	11,934
Bamboo Propagules	1,723	7,600	9,323	9,312	11	-
Palm	970	-	970	170	298	502
Grand Total	35,188	30,407	65,595	35,856	8,820	20,919

Five (5) laborers were hired through Job Order Contracts to conduct regular nursery activities, supporting the technical personnel assigned to the nurseries. Activities included, but were not limited to, watering, potting of soil media, collection of seeds and wildlings, seedling propagation, sorting of seedlings for hardening, brushing, ring weeding, and overall maintenance of the two (2) nurseries.



Seedlings and wildlings collection

Conduct of regular activities at the Provincial and Clonal Nurseries such as cleaning and arranging of the seedlings by removal of undesirable ones and sorting the matured ones for hardening process.





Loading and unloading of seedlings



Potting of soil media



Transplanting of seedlings from pit beds to potted soil media.



Regular maintenance activities of Provincial and Clonal Nurseries.

II. Forest Protection and Law Enforcement

A. Manning of Checkpoints

The Isabela Environment Protection – Task Force (ISEP-TF) Operatives diligently manned and maintained **four (4) checkpoints around the clock**. With a focus on forest and environmental protection, the **23 Operatives** engaged in regular surveillance, foot patrolling, and prompt response to tipsters' (SMS) reports regarding violations of forestry and environmental laws. Simultaneously, some personnel were assigned to monitor various quarry outlets province-wide. These diverse activities were aimed at detecting any illegal gathering and transport of both forest products and mineral resources.

To ensure the ISEP-TF Operatives were well-versed in their duties and responsibilities, the ENR Officer conducted regular meetings with them. These gatherings served as a platform for reporting accomplishments, and providing updates on other issues, and addressing concerns related to the enforcement of forest and environmental laws and policies.



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

In 2023, forest protection and law enforcement activities led to the apprehension of a total of Six Hundred Ninety-Eight (698) pieces of various wood species (including lumber, round logs and flitches), with a cumulative volume of Seventeen Thousand Eight Hundred Forty-One and 33/100 (17,841.33) board feet. Detailed information on these confiscated forest products is provided in the table below. All seized items are currently under the custody of PGI-ENRO.

Table 2. Summary of Apprehended/Confiscated Forest Products for 2023

Particulars	No. of Pcs.	Volume (bt.ft.)
Narra Flitches	67	2,217
Red Lauan Lumbers	53	885.33
Red Lauan Round Logs	20	78.41
Gmelina Flitches	4	4,030
Tanguile Lumbers	106	1,910.38
Almasiga Round Logs	3	944.33
CHW Lumbers	445	7,841.33
TOTAL	698	17,841.33



Apprehension of mostly abandoned illegally-harvested forest products at IDRRIP, Sindon Bayabo, City of Ilagan, Isabela.



The above photos depict the enforcement operation conducted at Batong Labang, City of Ilagan, Isabela. It captures the apprehension of mostly abandoned illegally harvested forest products. The operation, carried out during routine forest protection and law enforcement activities, showcases the commitment to combat illicit practices impacting our natural resources. The confiscated items are now under the custody of PGI-ENRO.



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

C. Donation and Utilization of Forest Products

The Provincial Government actively supports the project undertakings of its constituents. In the reporting year, the Provincial Government approved numerous requests from various qualified beneficiaries for the donation and utilization of apprehended/confiscated forest products. These donations extended to various projects initiated by the PGI, involving a total of Five Hundred Sixteen **(516) pieces of Common Hard Wood Lumber**, amounting to an aggregate volume of Seven Thousand Three Hundred Sixty-Nine and 02/100 **(7,369.02) board feet**. This collaborative effort demonstrates the PGI's commitment to sustainable resource management and community development.

D. Other Activities

In addition to their primary responsibilities, the ISEP-TF Operatives played an important role in implementing various programs, projects and activities led by the ENRO technical team. These activities included:

- Seedling production
- Wildlings collection
- Clean-up drives
- Tree planting activities
- Monitoring of IDRRIP reforestation areas and others.

This diversified involvement showcases the versatility and dedication of the ISEP-TF Operatives in contributing to a range of environmental initiatives.



Seedling production activities of ISEP-TF Operatives in their respective checkpoints



Seeds and wildlings collection activities of ISEP-TF Operatives.



Clean-up drive activities joined by ISEP-TF Operatives.



Tree planting activities joined by ISEP-TF Operatives.



Maintenance and protection activities conducted by ISEP-TF Operatives within the IDDRIP reforestation areas.

III. Climate Change Mitigation/Adaptation & DRRM Measures through Forest Landscape Restoration and Coastal Resource Management Programs

Endowed with abundant natural resources, the Province of Isabela stands as a leader in implementing diverse forest and environmental programs. Recognizing the significance of safeguarding its environment, comprehensive Climate Change Mitigation/Adaptation (CCMA) and Disaster Risk Reduction and Management (DRRM) measures have been integrated and sustained. These efforts aim to shield the community from the adverse impacts of climate change. In collaboration with various city/municipal LGUs and in support of the DSWD Risk Resiliency Program through Cash-for-Work, the Provincial Government of Isabela has implemented the following projects under the CCM/A & DRRM Programs.

A. Watershed Rehabilitation Project

A watershed, defined as a land area drained by a stream or fixed body of water and its tributaries with a common outlet for surface runoff, including rivers, serves as a vital source for potable water and water for commercial, agricultural, and industrial purposes. Preserving watershed areas is crucial for capturing, storing and releasing water, ensuring the maintenance of water quality.

Over the years, the Watershed Rehabilitation Project has successfully planted trees on watershed areas. In the current year, the project was executed in collaboration with the Local Government Units of Delfin Albano, Quezon, Sta. Maria, Mallig, Cabagan and Cordon, Isabela. These LGUs played a crucial role in site identification and inspection, supporting the ENRO in these processes.

The Provincial Government contributed seedlings and fertilizer, while the labor component for site preparation and planting was facilitated by DSWD through the Cash-for-Work Program. The Provincial Government allocated Php. 417,660.00 from the Local Disaster Risk Reduction and Management Fund to cover the expenses for fertilizer and seedlings.

Table 3. Number of Seedlings Distributed for Watershed Rehabilitation Project

LGU	Species	Total
Quezon	Assorted Seedlings	1,650
Delfin Albano	Assorted Seedlings	3,300
Cordon	Assorted Seedlings	1,650
Cabagan	Assorted Seedlings	1150
Sta. Maria	Assorted Seedlings	1,650
Mallig	Assorted Seedlings	1,150
Grand Total		10,550

➤ Establishment of 2 hectares Watershed Area at Sitio Villa Tj, Brgy. Carmencita, Delfin Albano, Isabela

In the pursuit of expanding environmental conservation efforts, personnel from this office undertook a comprehensive site inspection and validation of the proposed area

on March 10, 2023. The subsequent implementation of the project occurred under the supervision of the Office's personnel on September 5, 2023.

During the implementation, a total of 1,900 assorted fruit-bearing and forest tree seedlings were carefully planted. The Local Government Unit (LGU) played a crucial role in site preparation activities utilizing their Cash-for-Work program beneficiaries. Additionally, the personnel of this Office diligently monitored the progress of the newly established Watershed Area, reinforcing a commitment to the ongoing and previous Watershed Rehabilitation Projects.



➤ ***Establishment of 2 hectares Watershed Area at Sitio Namnama, Brgy. Santos, Quezon, Isabela***

In collaboration with the Municipal Environment and Natural Resources Office (MENR Office) of the Municipality of Quezon, the personnel of this office conducted a thorough site inspection and validation of the identified proposed area on March 10, 2023. Implemented through Cash-for-Work Program beneficiaries, this project successfully involved the planting of a total of 660 assorted fruit-bearing and forest tree seedlings. Additionally, the personnel monitored the progress of previous Watershed Rehabilitation Projects, ensuring continuity and effectiveness in environmental conservation efforts.



➤ **Establishment of 1 hectares Watershed Area at Brgy. Naganacan, Santa Maria, Isabela**

A rehabilitation project spanning a 1-hectare area in the municipality of Sta. Maria, Isabela was successfully executed through the participation of Cash-for-Work (CFW) Program beneficiaries. These beneficiaries actively planted a variety of fruit-bearing and forest tree seedlings. The project site, situated in Barangay Naganacan, encompasses an area of 10 hectares. The Municipal Local Government Unit (MLGU) set an ambitious goal to plant around 10,000 seedlings.

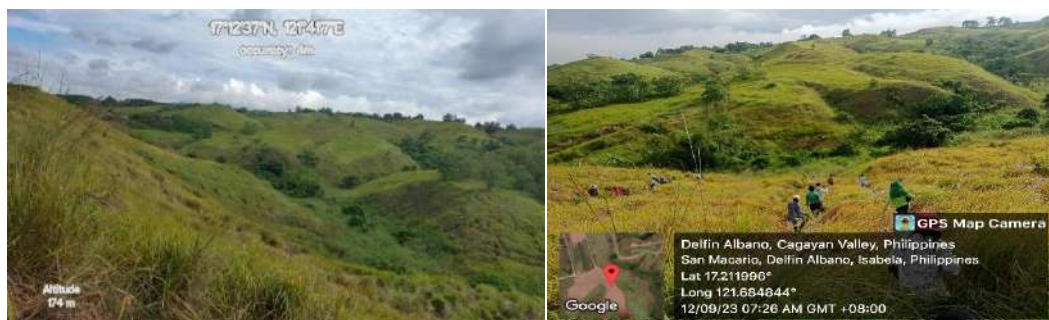
To support this initiative, the Provincial Government through the ENR Office provided 2, 446 assorted seedlings to the LGU as its counterpart. A total of 450 CFW beneficiaries from different barangays of Sta. Maria were engaged in the plantation establishment activities, which included hauling of seedlings, staking, brushing, hole digging, planting, and watering.

During the initial phase, the CFW beneficiaries successfully planted an estimated 5,000 seedlings out of targeted 10,000 seedlings. The planting and watering activities will persist until the fourth quarter, completing the 10-day work program of the beneficiaries for the initial maintenance phase of the project.



➤ **Establishment of 1 hectare Watershed Area at Brgy. Trinidad, Mallig, Isabela**

The project commenced its implementation on September 9, 2023, initiating site preparation activities that culminated the actual planting on September 12, 2023. Personnel from this office provided supervision and assistance to four hundred (400) Cash-for-Work Program beneficiaries representing 18 barangays in the Municipality of Mallig. The collaboration effort resulted in the successful planting of 440 assorted forest trees and fruit-bearing trees along the perimeter of the designated watershed area.



➤ **Rehabilitation of 1 hectare Watershed Area at Malasi Lake, Cabagan, Isabela**

The rehabilitation of a 1-hectare watershed area at Malasi Lake, Cabagan, Isabela was accomplished through the active participation of Cash-for-Work Program beneficiaries. A total of 1,200 assorted fruit-bearing and forest tree seedlings were successfully planted within the designated project area.

➤ **Establishment of 2 hectares Watershed Area at Cordon Eco-Park, Estampa, Capirpirawan, Cordon, Isabela**

The MENR Office of Cordon executed their planting activity as scheduled on December 21, 2023 as part of the watershed area project implementation. Cash-for-Work beneficiaries actively engaged in site preparation activities, resulting in the successful planting of a total of 500 narra and neem tree seedlings within the designated project area.



B. Riparian Rehabilitation Project

Since the year 2012, the Provincial Government, through its ENR Office, has spearheaded the rehabilitation of riverbanks by promoting bamboo planting. With initial positive outcomes, this initiative has evolved into a major priority project known as the “Riparian Rehabilitation and Development Project (PRDP).”

In the current year, the Riparian Rehabilitation and Development Project (RRDP) took place in collaboration with the Local Government Units of Tumauni, San Pablo, Echague, and San Agustin. These LGUs played a pivotal role in assisting the PGI-ENRO during site identification, inspection, and evaluation of proposed project sites. The Provincial Government provided the necessary seedlings and fertilizer, while the labor component for site preparation and planting were facilitated by the DSWD through the Cash-for-Work Program.

To fund the fertilizer and seedling requirements, the Provincial Government allocated Php. 350,625.000 from the Local Disaster Risk Reduction and Management Fund, ensuring the successful implementation of the project.

Table 4. Number of seedlings distributed for Riparian Rehabilitation Project

LGU	Species	Total
San Pablo	Assorted Seedlings	1,500
Tumauni	Assorted Seedlings	3,000
Echague	Assorted Seedlings	1,500
San Agustin	Assorted Seedlings	1,500
Sto. Tomas	Assorted Seedlings	500
City of Ilagan	Assorted Seedlings	250
Grand Total		8,250

➤ Establishment of 3 kilometers Riparian Zone at Brgy. Pilitan and Paragu, Tumauni, Isabela

In pursuit of the Riparian Rehabilitation and Development Project (RRDP), personnel from this office conducted a thorough site inspection and validation on March 9, 2023. The identified area by the LGU falls within the perimeter of Cagayan and Pinacanauan rivers, signifying critical zones in need of rehabilitation. On September 7, 2023, our personnel actively supervised the project’s implementation, offering technical assistance to the Cash-for-Work beneficiaries.

Before initiating the tree planting, a comprehensive briefing was conducted to elucidate and raise awareness about the significance of planting bamboo along riverbanks. Subsequently, the scheduled tree planting commenced, resulting in the successful planting of 300 bamboo propagules. These were strategically placed with a 5mx5m spacing along the riverbanks, with the application of organic fertilizer to foster optimal growth and rehabilitation.



➤ **Establishment of 1.5 kilometers Riparian Zone at Brgy. Minanga Norte, San Pablo, Isabela**

In collaboration with the LGU of San Pablo through its MENRO, personnel from this office conducted a thorough inspection and validation of the proposed area for rehabilitation along Pinacanauan River on July 21, 2023. The inspection revealed soil erosion downstream due to heavy rains and flash floods.

To mitigate the effects of flooding, the MENR Office proposed a Slope Management Plan Design for the relocation of the bamboos intended for planting along the riverbanks. This strategic approach aims to address the observed issues and contribute to the successful establishment of a 1.5 kilometers Riparian Zone.

The implementation of the aforementioned project took place on September 20, 2023, where a total of 1,500 bamboo propagules were successfully planted along the riverbanks of Brgy. Minanga Norte. This noteworthy initiative was carried out by the dedicated efforts of Cash-for-Work beneficiaries who also produced seedlings specifically intended for this project.



➤ ***Establishment of 1.5 kilometers of Riparian Zone at Brgy. Soyung, Echague, Isabela***

On September 22, 2023, the Provincial Government, through its ENR Office, spearheaded the implementation of the project, planting a total of 1,500 bamboo propagules. This commendable effort was made possible by the dedicated work of Cash-for-Work beneficiaries, in collaboration with the MENRO personnel who contributed seedlings as the LGU counterpart.

The planting activity was actively supervised and supported by personnel from this office, providing essential technical assistance throughout the duration of the project.



➤ ***Rehabilitation of 1.5 kilometers Riparian Zone at Brgy. Nemmatan, San Agustin, Isabela***

The rehabilitation project covering a 1.5-kilometer stretch, located in Brgy. Nemmatan, San Agustin, Isabela along the riverbanks of the municipality, commenced implementation activities on November 13, 2023. This initiative was carried out by 450 beneficiaries from different barangays of San Agustin through the Cash-for-Work (CFW) Program.

During the project, a total of 1,500 bamboo propagules were planted with a 3mx3m spacing at double strip. The LGU, in collaboration with the barangay where the project area is situated, serves as a vital counterpart for the continued maintenance and protection of the seedlings that were successfully planted.



➤ **Establishment of 1-km Riparian Zone at Brgys. San Rafael and Ammugauan, Sto. Tomas, Isabela**

This project, covering a 1-hectare area, was situated along the riverbanks of Barangays San Rafael and Ammugauan, Sto Tomas, Isabela. The LGU actively contributed to the maintenance activities, including site preparation, ring weeding, brushing, clearing, and actual planting, which were executed through Cash-for-Work beneficiaries. In total, 800 bamboo propagules, accompanied by corresponding tree guards for protection, were successfully planted.

During the bamboo planting phase on the same area, it was observed that approximately 85% of the previously planted bamboos had successfully survived from the prior implementation of the project.



C. Agroforestry/Urban Greening/Carbon Sink Establishment Project:

The Provincial Government, recognizing the importance of agroforestry, urban greening, and carbon sink initiatives in combating resource depletion and environmental degradation, collaborated with the Local Government Units of San Guillermo, Naguilian,

Burgos, Quirino, and Cabagan, Isabela. These LGUs actively supported PGI-ENRO personnel in identifying, inspecting, and evaluating proposed project sites.

The Provincial Government took the lead in providing the necessary seedlings and fertilizer requirements. The counterpart of the LGUs, along with the barangays where the project areas are located, involved social mobilization for site preparation, planting, maintenance, and protection activities. The LGUs utilized the DSWD Program through Cash-for-Work beneficiaries for these activities.

To ensure the success of the project, the Provincial Government allocated Php. 376,585.00 from the Local Disaster Risk Reduction and Management Fund to cover the fertilizer and seedlings requirements.

Table 5. Number of seedlings distributed for Agroforestry/Urban Greening/Carbon Sink Establishment Project

LGU	Species	Total
Cabagan	Assorted Seedlings	781
Naguilian	Assorted Seedlings	1,561
San Guillermo	Assorted Seedlings	1,561
Burgos	Assorted Seedlings	781
Quirino	Assorted Seedlings	1,170
Grand Total		5,854

➤ **Establishment and Development of 2-hectare Agroforestry Project at San Guillermo, Isabela**

In collaboration with the Municipal Local Government Unit (MLGU) of San Guillermo, Isabela through the MENR Office, personnel from this office coordinated the implementation of an Agroforestry Rehabilitation Project covering a 2-hectare area. The initial target was to plant around 1,200 assorted fruit-bearing and forest tree seedlings.

However, due to extreme heat conditions, some of the seedlings were not planted during the scheduled activity. The planting was later carried out by Cash-for-Work (CFW) beneficiaries and MENRO staff, resulting in an estimated total of 200 assorted forest trees and fruit-bearing trees planted with a 3mx3m spacing. Some of these seedlings remained unplanted due to the challenging weather conditions.



➤ ***Establishment and Development of 1-hectare Agroforestry Project at Cansan, Cabagan, Isabela***

Located at Brgy. Cansan, Cabagan, Isabela, this Agroforestry project spanned and underwent comprehensive rehabilitation. Implementation activities included ring weeding, brushing, staking and planting, all carried out by selected Cash-for-Work (CFW) beneficiaries from the Municipality of Cabagan.

A total of 800 assorted fruit-bearing and forest tree seedlings were planted in collaboration with MENRO personnel, showcasing the combined efforts of the community and local government in fostering the growth and development of this Agroforestry initiative.

➤ ***Establishment and Development of 1.5-hectare Agroforestry Project at Quirino, Isabela***

A successful rehabilitation of a 1.5-hectare Agroforestry Project was carried out at Quirino, Isabela. The initiative involved planting 600 assorted forest trees and fruit-bearing trees seedlings with a spacing of 3mx3m, alongside 1,000 bamboo propagules strategically placed with a 5mx5m spacing.

The implementation of this project actively engaged the MLGU Quirino staff, with ENRO personnel overseeing and providing crucial assistance throughout the planting of assorted seedlings for the Agroforestry project. This collaborative effort reflects a commitment to the sustainable development of the designated area.



➤ ***Establishment and Development of 1 hectare Agroforestry Project at San Miguel, Burgos, Isabela***

On September 13, 2023, ENRO personnel embarked on the Agroforestry Project site situated in Brgy. San Migue, Burgos, Isabela. The planting activity commenced promptly at 6:00 o'clock in the morning, with active participation from Cash-for-Work beneficiaries, Local Government Unit Officials of Burgos, and representatives from other collaborating agencies.

Engr. Duque, MENRO Designee, highlighted that the Municipality of Burgos had a total of 400 beneficiaries involved in the initiative. During the event, a notable 1,000 assorted seedlings were successfully planted at the designated project site, showcasing a significant step towards the realizations of the Agroforestry Project objectives.



➤ ***Establishment and Development of 2-hectare Agroforestry Project at Naguilian, Isabela***

Personnel from this office, in coordination with the MLGU of Naguilian, actively facilitated site inspection and validation process for identified proposed areas embarked for agroforestry project. Following thorough assessment, all inspected areas were deemed feasible and suitable for the project, situated across the 5 barangays of Naguilian namely: Manaring, Cabaruan, Minallo, Surcoc, and Flores.

Implementation activities, including the scheduled planting on September 19, 2023, was the participation of 400 Cash-for-Work beneficiaries. Together, they successfully planted a total of 1,600 assorted fruit-bearing and forest tree seedlings,

marking a substantial contribution to the realization of the Agroforestry Project objectives in Naguilian, Isabela.



D. Beach Forest Rehabilitation and Development Project

The Province, with its 113 kilometers of coastline, encompasses four coastal municipalities: Maconacon, Divilacan, Palanan and Dinapigue. These municipalities, facing the Pacific Ocean, are particularly vulnerable to natural hazards like typhoons, tidal waves, and storm surges.

With a steadfast commitment to the sustained success of implemented projects, the Provincial Government aligns its efforts to ensure the realization and longevity of initiatives. According to the approved proposal, **12.5 hectares of beach forest** designated for implementation, with **7 hectares** allocated for Beach Forest in Palanan, **4.5 hectares** in Divilacan, and 1 hectare in Maconacon. The specific project sites were identified across Sitio Sabang and Barangay San Isidro in Palanan, Sitio Lanai, Bicobian in Divilacan, and Barangays Fely, Minanga and Aplaya in Maconacon.

The Provincial Government secured resources from the Local Disaster Risk Reduction and Management Fund (LDRRMF), Cagayan Biomass Energy Corporation (CBEC) and Isabela Biomass Energy Corporation (IBEC) to cover seedling requirements, field implementation, monitoring, and supervision. In addition, MLGUs actively participated in plantation establishment, maintenance, and protection activities as their essential contribution to the projects' success. This collaborative approach underscores the comprehensive commitment to Beach Forest Rehabilitation and Development Project.

From September 18-19, 2023, our Office, in collaboration with Provincial General Services Office (PGSO) personnel, conducted a thorough on-site inspection of the Beach Forest Rehabilitation and Development and yielded the following key observations:

1. Barangay Culasi, Palanan:
 - Scheduled planting activity preparation for Botong, Talisay and Agoho seedlings.
2. Sitio Sabang, Barangay Maligaya, Palanan:
 - Monitoring of similar projects implemented in 2018, 2019, 2021, and 2023.
 - Noteworthy sturdy growth of seedlings from previous years, with Agoho species displaying the highest survival rate and suitability for the site.
3. Barangay San Isidro, Palanan:
 - Inspection of previously planted Botong, Talisay, and Agoho seedlings along a 5-kilometer seashore in 3 strips with a spacing of 3mx3m.
4. Sitio Lanai, Bicobian, Divilacan:
 - Evaluation of the ongoing Beach Forest Rehabilitation and Development Project.
 - Observations on replanted seedlings in the project site, with Agoho, Botong, and Talisay seedlings along the seashore measuring 1 to 2 feet in height.
5. Brgy. Aplaya, Maconacon:
 - Location of a 1-hectare Beach Forest Rehabilitation Project.
 - Planting of Agoho, Botong, and Talisay seedlings, with approximately 90% of the seashore area is covered with 3mx3m spacing.

This comprehensive field inspection provides valuable insights into the progress and success of the Beach Forest Rehabilitation and Development Project, emphasizing the successful establishment of diverse species along the coastal areas' identified sitios and barangays.

E. Mangrove Forest Rehabilitation and Development Project

The Province of Isabela hosts extensive Mangrove Forests along tidal mudflats, spanning brackish water rivers, streams, and shallow coastal areas, primarily in the Municipalities of Divilacan, Palanan and Maconacon, Isabela. These mangrove forests act as natural frontline defense against various natural hazards.

This year, the focus is on the continues rehabilitation of mangrove forests in the coastal municipalities of Isabela. According to the approved proposal, **14 hectares of Mangrove Forests** were earmarked for implementation, with allocations of **8 hectares in Divilacan, 5 hectares in Palanan and 1 hectare in Maconacon, Isabela**. The Provincial Government secured resources from the Local Disaster Risk Reduction and Management Fund (LDRRMF), Cagayan Biomass Energy Corporation (CBEC) and Isabela Biomass Energy Corporation (IBEC) to cover seedling requirements, field implementation, monitoring, and supervision. Municipal LGUs actively participated by overseeing plantation establishment, maintenance and protection activities as their contribution to the project.

▪ ***Rehabilitation of 8 hectares Mangrove Forest at Divilacan, Isabela***

In 2023, LGU of Divilacan, in collaboration with barangay officials, initiated seedling production in May at barangay Dimasalansan, Divilacan, Isabela. Implementation activities, including planting, took place in September. A total of **2,750 Nipa and 8,250 bakauan species**, were planted with a spacing of 2mx2m. Cash-for-Work beneficiaries from the DSWD Program for the Mangrove Rehabilitation Project actively participated. Ten percent of the produced seedlings were allocated for replanting in the project area, utilizing enrichment planting as a strategy.

▪ ***Rehabilitation of 5 hectares Mangrove Forest at Palanan, Isabela***

In barangay Culasi, Palanan, Isabela, seedling production began in June, 2023 through Cash-for-Work beneficiaries of DSWD Program. A total of **12,650 bakawan species** were planted with a spacing of 2m x 2m on the 5-hectare Mangrove Project. Implementation activities spanned from September 21, 2023 to November, 2023. Maintenance and protection, including hauling and replanting activities, are the counterpart of LGU Palanan.

▪ ***Rehabilitation of 1 hectare Mangrove Forest at Maconacon, Isabela***

A 1-hectare Mangrove Forest Rehabilitation Project is situated in barangay Minanga, Maconacon, Isabela. Seedling production occurred from May to June, 2023. Implementation activities and actual planting were conducted by Cash-for-Work beneficiaries under the DSWD Program. A total of **8,000 bakauan** propagules were planted on September 21, 2023, and the project concluded in November, 2012. LGU Maconacon is responsible for the maintenance and protection of the project.

On-site Inspection Report: Mangrove Forest Rehabilitation and Development Project

On September 21, 2023, our personnel, accompanied the Provincial General Services Office (PGSO) staff, conducted an on-site inspection of the Mangrove Forest Rehabilitation and Development Project in the coastal municipalities of Maconacon, Divilacan and Palanan. This strategic initiative focuses on continuous rehabilitation to fortify the natural defense provided by mangrove forests against natural hazards. The inspection yielded the following observations:

1. Mangrove Forest in Divilacan (8 hectares):
 - Monitoring of the ongoing rehabilitation project.

- Assessment of the established mangrove areas, emphasizing growth and sustainability.
 - Verification of the seedling requirements and overall field implementation.
2. Mangrove Forest in Palanan (5 hectares)
- Evaluation of the mangrove rehabilitation progress.
 - Analysis of the field implementation, considering the specific needs of the coastal areas in Palanan.
 - Validation of seedling requirements, ensuring adequacy for sustained growth.

This on-site inspection contributes critical insights into the successful rehabilitation and development of mangrove forests with the coastal municipalities of Divilacan and Palanan. The commitment of both the Provincial Government and Municipal LGUs, in collaboration with the PDRRMO, through LDRRMF and CBEC and IBEC, reflects a comprehensive approach to fortify the natural defenses provided by mangrove ecosystems. The continuous efforts in plantation establishment, maintenance, and protection activities underscore the dedication to environmental sustainability and resilience against natural hazards.





ENVIRONMENTAL MANAGEMENT DIVISION

ENVIRONMENTAL MANAGEMENT DIVISION

The Environmental Management Division’s planned programs, projects, and activities are directed towards the proper implementation & enforcement of environmental laws & policies mandated under RA 7160, involving the devolution of ENR functions to local government units. As technical arm of the Provincial Government of Isabela, the ENR Office has extended programs aligned with the flagship thrusts of the Local Chief Executive in environmental protection, rehabilitation and development.

I. Monitoring of LGUs 10-Year Ecological Solid Waste Management Plan

According to Section 16 of RA 9003, provinces, cities, and municipalities through their Local Solid Waste Management Boards (SWMBs), are required to prepare 10-Year Solid Waste Management Plans (SWMPs) consistent with the National Solid Waste Management Framework. These plans are subject to approval by the Commission and must be reviewed and updated by the Provincial, City, or Municipal SWMBs.

Our personnel, along with two (2) technical staff from the DENR-EMB Region 02, monitored the implementation of the 10-Year ESWMP in the municipalities of San Mariano and Mallig, Isabela. The team focused on Solid Waste Management Systems emphasizing practices to minimize waste generation from households, agriculture, industry, and special wastes. Additionally, we assessed their strategy for achieving programs, projects, and activities as stipulated under the implementing rules and regulations of RA 9003.



Below is the status of the Provincial/City/Municipal Solid Waste Management Plans for all component cities and municipalities of the Province of Isabela, based on records from DENR-Environmental Management Bureau Region 02, as of December 31, 2023:

Table 6. Status of Provincial/Municipal/City ESWM Plans in the Province of Isabela

	City/Municipality	Status
1	ALICIA	Approved Plan
2	ANGADANAN	Approved Plan
3	AURORA	Approved Plan
4	BENITO SOLIVEN	Approved Plan
5	BURGOS	Approved Plan
6	CABAGAN	Approved Plan
7	CABATUAN	Approved Plan

8	CAUAYAN CITY	Endorsed to Central Office
9	CORDON	Approved Plan
10	DELFIN ALBANO	Approved Plan
11	DINAPIGUE	Approved Plan
12	DIVILACAN	Approved Plan
13	ECHAGUE	Approved Plan
14	GAMU	Approved Plan
15	ILAGAN CITY	Approved Plan
16	JONES	Approved Plan
17	LUNA	Expired/Endorsed to Central Office for approval
18	MACONACON	Approved Plan
19	MALLIG	Expired/Endorsed to Central Office for approval
20	NAGUILIAN	Approved Plan
21	PALANAN	Approved Plan
22	QUEZON	Approved Plan
23	QUIRINO	Expired/Endorsed to Central Office for approval
24	RAMON	Approved Plan
25	REINA MERCEDES	Approved Plan
26	ROXAS	Approved Plan
27	SAN AGUSTIN	Approved Plan
28	SAN GUILLERMO	Endorsed to Central Office
29	SAN ISIDRO	Approved Plan
30	SAN MANUEL	Approved Plan
31	SAN MARIANO	Expired/Endorsed to Central Office for approval
32	SAN MATEO	Expired/Endorsed to Central Office for approval
33	SAN PABLO	Approved Plan
34	SANTA MARIA	Approved Plan
35	SANTO TOMAS	Approved Plan
36	TUMAUINI	Approved Plan
	ISABELA PROVINCE	Approved Plan

Out of thirty-six (36) component LGUs in the Province, twenty-nine (29) individual plans have been approved, two (2) were endorsed to Central Office and five (5) await Central Office approval.

The table below illustrates the status of Sanitary Landfill Facilities (SLFs) of the LGUs, based on monitoring as of October 31, 2023:

Table 7. *Status on the Sanitary Landfill Facilities (SLFs) of LGUs.*

	City/Municipality	Status
1	ALICIA	MOA with Ramon
2	ANGADANAN	Using Residual Containment Area
3	AURORA	MOA with Ramon
4	BENITO SOLIVEN	Operational Sanitary Landfill Facility
5	BURGOS	Using Residual Containment Area
6	CABAGAN	Operational Sanitary Landfill Facility
7	CABATUAN	MOA with Ramon
8	CAUAYAN CITY	Operational Sanitary Landfill Facility
9	CORDON	MOA with Ramon
10	DELFIN ALBANO	Operational Sanitary Landfill Facility
11	DINAPIGUE	Using Residual Containment Area
12	DIVILACAN	Using Residual Containment Area

13	ECHAGUE	Operational Sanitary Landfill Facility
14	GAMU	Using Residual Containment Area
15	ILAGAN CITY	Operational Sanitary Landfill Facility
16	JONES	Operational Sanitary Landfill Facility
17	LUNA	No collection- On going construction of RCA
18	MACONACON	Using Residual Containment Area
19	MALLIG	Operational Sanitary Landfill Facility
20	NAGUILIAN	Operational Sanitary Landfill Facility
21	PALANAN	Using Residual Containment Area
22	QUEZON	Operational Sanitary Landfill Facility
23	QUIRINO	Using Residual Containment Area
24	RAMON	Operational Sanitary Landfill Facility
25	REINA MERCEDES	Operational Sanitary Landfill Facility
26	ROXAS	Operational Sanitary Landfill Facility
27	SAN AGUSTIN	Using Residual Containment Area
28	SAN GUILLERMO	Using Residual Containment Area
29	SAN ISIDRO	Using Residual Containment Area
30	SAN MANUEL	Using Residual Containment Area
31	SAN MARIANO	Operational Sanitary Landfill Facility
32	SAN MATEO	Operational Sanitary Landfill Facility
33	SAN PABLO	Using Residual Containment Area
34	SANTA MARIA	Using Residual Containment Area
35	SANTO TOMAS	Using Residual Containment Area
36	TUMAUINI	Operational Sanitary Landfill Facility

Out of the thirty-six (36) component LGUs, the two (2) component cities and sixteen (16) municipalities have established their SLFs, fifteen (15) municipalities are utilizing Residual Containment Area (RCA); four (4) municipalities have Memorandum of Agreement (MOA) with Ramon, and one (1) municipality despite having no waste collection, is undergoing construction of RCA.

II. Material Recovery Facility Operation Under the Provincial Ecology Center

a. Organic Fertilizer Production through Vermicomposting

Supervised by one (1) technical personnel and operated by three (3) Job Order workers the vermicomposting produced, a total of **Seventeen Thousand Five Hundred (17,500) kilograms of organic fertilizer. Eight Thousand Thirty (8,030) kilograms** were distributed to various individuals and partner agencies, including the Office of the Provincial Agriculturist (OPA) for maintaining their Provincial Vegetable Nursery.

Continuous collection of organic materials was facilitated, and composting facility's shedder was utilized to hasten decomposition for vermicomposting. Additionally, an Organic Vegetable Garden was established and maintained at the back of the ENR Office using the organic fertilizer produced.



Activities under Organic Fertilizer Production thru Vermicomposting



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

b. Production of Green Charcoal

Job Order workers at the Material Recovery Facility (MRF) focused on recycling used/old cartons, disposed office files, and other paper wastes. The Office successfully produces a total of **120 kilograms** of charcoal briquettes. These briquettes, derived from recycled paper, are primarily used for cooking, providing an eco-friendly alternative. One kilogram of briquettes burns for about 2 hours in a briquette stove and produces enough heat to cook 2 meals for 4 people. This initiative reduces dependence on fossil fuels and fuelwood.



Production of Green Charcoal Briquettes

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

In addition to the task performed by the technical personnel and hired job order workers, the RCA operations involves segregating and sorting from various offices of the Provincial Government of Isabela (PGI). Through this operation, all wastes were sorted and classified, including residual, biodegradable, plastic bottles, papers, cartons, food wastes, bottles, hazardous and tin cans. All residual wastes collected are transported to City of Ilagan Sanitary Landfill Facility (SLF) by the garbage collector of the Provincial General Services Office (PGSO).

Table 8. Total output of residual waste received from January 2023 to December 2023 from the different offices of the Provincial Government of Isabela.

Residual	Biodegradable	Plastic Bottles	Paper	Carton	Food Waste	Bottles	Hazardous Waste	Tin Cans
82,242.2 kgs.	1,495.5 kgs.	541.68 kgs.	826 kgs.	599.1 kgs.	198.3 kgs.	146.35 kgs.	53.7 kgs.	33.5 kgs.



Sorting and segregation of waste collected

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

One of the pivotal programs as devolved functions of the Provincial Government of Isabela through the Environment and Natural Resources Office is the monitoring of waste disposal and solid waste management systems of Municipal and City LGUs, as well as provincially-operated hospitals, mandated under RA 9003.

The following sites were monitored:

1. City of Ilagan Sanitary Landfill

Located at Purok 5, Brgy. Sta. Catalina, City of Ilagan, Isabela, monitored on February 7, 2023, with the following observations:

- a. Situated on 22 hectares land area constructed in August, 2017, and operational since 2019.
- b. Designed as Category 1 based on DENR guidelines.
- c. Utilizes high-density polyethylene (HDPE) liner and has leachate ponds for wastewater treatment.
- d. Surrounded by forest and fruit-bearing trees to minimize odors.
- e. Cell 1, Cell 2, and Cell 3 have areas of approximately 16,200 sq. m, 9,500 sq. m, and 6,775 sq. m, respectively.

- f. Waste in the MRF consisted of mixed wastes.
- g. Operation of the rotary composter has temporarily stopped.



2. Gamu Residual Containment Area

Located at Dammao, Gamu, Isabela, last inspected in June, 2022 and re-inspected on February 7, 2023, with the following observations:

- a. Partially covered with soil.
- b. Proposed SLF in the same area with an approximate area of 7.9 hectares. LGU has loaned 8 million pesos for the project, however, awaiting the land title transfer for Environmental Compliance Certificate (ECC) application.

Recommendations:

- Conduct clean-up and segregation of waste according to its waste classification.



3. Cabagan Sanitary Landfill Facility

Inspected on February 22, 2023 located at Cansan, Cabagan, Isabela, with the following observations:

- a. Designed as Category 1 with an approximate land area of 7.2 hectares.
- b. Utilizes High-Density Polyethylene (HDPE).
- c. Leachate pond treatment involves charcoal, sand, and gravel.
- d. Incorporates shredded plastic wrap and plastic bottles in the flower garden fence.
- e. Biodegradable waste collected is placed in an area for decomposition to cover the cell.
- f. LGU collects single-use plastic and recyclable waste from schools in exchange for school supplies.



4. Angadanan Residual Containment Area

Located at Brgy. Centro, Angadanan, Isabela, monitored on March, 2023, with the following findings:

- a. No waste collection from January, 2023 to the date of monitoring. Managed per household, and collection of waste was only upon request.
- b. Non-functional bottle crusher.
- c. Hollow block production was done as per request and was given for free.
- d. SLF construction started during the pandemic in Brgy. San Isidro, Angadanan, with an approximate area of 2.0 hectares.
- e. Established cell with an area of 15m x 80m.

Recommendation:

- LGU must devised waste collection strategies for SLF completion. Implement strict “segregation of waste at source” to avoid mixed waste collection.
- Regular Information, Education, and Communication (IEC) Campaign.

5. San Guillermo Disposal Facilities

Visited RCA and proposed SLF of San Guillermo on March, 2023, with the following results:

- RCA started operation in 2019.
- Six personnel assigned as segregators and waste collectors.
- Two dump trucks available for daily waste collection.
- Recyclable wastes stored in MRF, brought to junkshops monthly, proceeds serve as incentives for segregators.
- Biodegradable wastes decomposed for fertilizers.
- Proposed SLF located in Brgy. Nakar, San Guillermo, approximate area of 1.0 hectares.

Observations:

- RCAs are supposed to be temporary storage, however, San Guillermo's RCA turned into a dump that accommodates wastes for the entire municipality.
Proposed solution: Transport residual waste and hazardous waste to Cauayan City SLF.
- Fish carton boxes from the market scattered in the RCA, used as mulching.
- Diapers and napkins segregated from other residual wastes.
- Mini nursery at the back of MRF.

Recommendations:

- Implement perimeter planting of trees around the SLF for carbon sequestration, greenbelts, shelterbelts, and windbreakers



6. Benito Soliven Sanitary Landfill

The Sanitary Landfill located at Brgy. Danipa, Benito Soliven was monitored in March, 2023. The findings and observations are as follows:

- The SLF was designed as Category 1 and commenced its operation in October, 2022 covering a total area of 3.16 hectares.
- Waste transportation to the SLF is facilitated by barangays using a dump truck donated by the provincial government.

- c. Facilities within the SLF area include an administrative building, Material Recovery Facility, Residual Containment Rea, and three (3) chamber leachate ponds. The construction of the perimeter fence is in progress and a submersible pump is available for water sourcing.
- d. Various machines and equipment are present, including a rotary composter donated by the Department of Agriculture (DA), eco-brick machine, bottle pulverizer, biodegradable shredder, and a rapid composter donated by EMB. However, some of these are non-functional.
- e. A septic vault on site is not utilized, as the RHU in the area uses separate vaults. Plans are underway to modify the design due to water penetration concerns inside the septic vaults.

Good practice:

- Polyethylene Terephthalate (PET) was utilized in constructing comfort rooms. Additionally, plastic residual waste was finely cut as filler content in plastic bottles to minimize residual waste in the cell.

Recommendations:

- Ensure residual wastes are securely placed in sacks. Simultaneously, consider installing a net around the cell to prevent the scattering of waste.



7. San Mariano Sanitary Landfill Facility

During the March 2023 visit to the San Mariano SLF in Barangay Palutan, the following observations were noted:

- a. The SLF spanning 22 hectares categorized as Category 1, commenced its operation in 2018.
- b. Plans for constructing a second cell are underway due to the nearing capacity of the first cell, currently in its final covering phase.
- c. The average daily disposal of residual wastes is approximately 1.59 tons.
- d. Utilization of rotary and rapid composter, combined with bagasse ash from Green Future Innovations Inc. (GFII) is observed for primary composting.
- e. Facilities include an administrative building, hazardous waste building, nursery, MRF with various equipment and machines like rotary composter donated by the Department of Agriculture, and rapid composter, a biodegradable shredder and plastic shredder donated by DENR-EMB and ongoing construction of a perimeter fence.
- f. A pressurized pump serves as the water source, while there's a lack of a generator for power supply backup.
- g. Records for soil enhancers production are unavailable and the three leachate ponds require water treatment; a new leachate pond is planned.

Recommendations:

- Initiate immediate construction of the second cell to ensure continuous waste collection.



8. Roxas Sanitary Landfill Facility

At the SLF in Brgy. San Placido, Roxas spanning approximately 11 hectares, findings from the monitoring include:

- a. Three cells exist: the first cell is vegetated, the second is covered with 0.3 meters thick soil, and the third is ready for utilization.
- b. Equipment such as a rotary composter, three shredder machines, a plastic pulverizer, and a densifier machine are available but not fully operational.
- c. Four garbage trucks are deployed for waste collection across 13 active barangays.
- d. Collection schedules vary for Poblacion and barangays, with no records received recyclable and residual waste for potential composting.



9. Jones Sanitary Landfill Facility

Monitored in June, 2023, the SLF in Barangay Fugu, Jones, approximately 1.5 km. from the provincial road, presented the following observations:

- a. Residual waste collection schedules vary for urban barangays and biodegradable wastes.
- b. Presence of two shredders, composter machines, a backhoe, five segregators, and three garbage collectors.
- c. Mixed waste is sorted at the MRF, with a septic vault for hazardous waste.
- d. No leachate pond treatment is implemented, and biodegradable waste is placed beside the cell.



10. San Agustin Residual Containment Area

RCA in Brgy. Santos, San Agustin, monitored in July, 2023, raised concerns about locked gates, a disorganized MRF, and a non-functional shedder.



11. Dinapigue Sanitary Landfill

Located approximately 1.5 km. from Brgy. Poblacion, Dinapigue's SLFs faces functionality issues, with scattered garbage, improper segregation of plastic bottles, unused vermicomposting beds, and a non-functional bottle crusher.



12. San Pablo Sanitary Landfill

Under construction in July 2023, the SLF in San Pablo utilizes an RCA, about 5.94 kms. from the national highway, and faces delays due to insufficient funds for construction.



13. Santa Maria Residual Containment Area

The RCA in Brgy. Villabuena, Sta. Maria, monitored in July 2023, involves waste collection per barangay request, scheduled thrice a week for 20 barangays, with only two waste pickers allowed for recyclables.



14. Delfin Albano Sanitary Landfill and Materials Recovery Facility

In August, 2023, a courtesy call to MENRO Gamido of LGU-Delfin Albano revealed observations at the SLF in Barangay Carmencita:

- a. Three leachate ponds lack treatment, a non-functional guard house, no electricity access, absent fences, and unlabeled MRF.
- b. Garbages are collected in sacks to avoid scattering, with available equipment and regular AGITA spraying to control flies.

Following SLF monitoring, a visit to the Centralized MRF in Barangay San Antonio revealed composters, a multi-purpose shredder, and brick production from crushed bottles for donation to barangays.



15. Sto. Tomas Residual Containment Area

ENRO personnel inspected the Sto. Tomas RCA at So. Gapan, Brgy. Bubug, Sto. Tomas on August 9, 2023. Mr. Jademar Bulusan, MENRO Staff, indicated that the LGU lacks a garbage collection system, with households managing waste through compost pits or burning. RCA waste consisted mainly of recyclables, improperly labeled and abandoned. The LGU's Municipal MRF in Brgy. Poblacion, constructed in 2017, operates with the chambers for recyclables within the municipal hall premises.

Recommendations:

- Rigorous enforcement of Municipal/Barangay ordinances/policies on RA 9003.
- Conduct Information, Education and Communications (IEC) Campaign at the barangay level.
- Develop an alternative waste collection plan for the LGU.
- Prioritize fund allocation for garbage trucks to enhance waste collection.

16. Maliig Sanitary Landfill

During the September 12, 2023 visit to Maliig SLF in Brgy. Manano, observations included:

- Two cells in the area: the first cell nearly full, the second newly constructed for use next year.
- Two personnel managing the area.
- A non-operational temporary biodegradable composting area.
- Facilities like guard house, leachate pond, drainage canal, and hazardous waste vaults.
- Collapsed foundation holding the cell net.
- Water source generated through solar energy.
- Stagnant water in the cell causes an unpleasant smell.
- Daily collection of approximately 200 kgs. of residual wastes.
- Sale of recyclables and plastics to junkshops.
- Residual and biodegradable waste collection around Poblacion (Centro) scheduled on Wednesday and Saturday.
- Sale of used papers at Php 2.00/kilo to a businessman for paper bag production.

Recommendations:

- Enforce RA 9003.
- Store collected plastic bottles inside the MRF.
- Initiate composting of garbage in the cell for soil covering.



17. Quezon Sanitary Landfill

ENRO staff coordinated with Ms. Marilyn Macaraeg, MENRO Staff of Quezon and monitored the SLF located at So. Namnama, Brgy. Santos, Quezon, Isabela on September 12, 2023. Observations included:

- Daily collection of approximately 1,500 kgs. of waste.
- Well-managed MRF with proper labels.
- Four garbage collectors present.
- Sale of plastic bottles to junkshops.
- Vault for hazardous waste present but not properly labeled.
- Half of the cell is covered with 0.3-meter-thick soil.
- Tires from car repair piled up next to the cell, some used as fences.



18. Naguilian Sanitary Landfill

Visited on October 5, 2023, the Naguilian SLF at San Manuel had observations:

- Total land area of 5 hectares with a cell size of 100 m length x 35 m width x 4.3 m depth.
- Three (3) layer leachate pond without treatment.
- Two (2) non-operational rotary composter machines.
- Hazardous vault for infectious, sharps, and pharmaceutical wastes.
- Existing composting facility for biodegradable wastes.
- Clean and tidy MRF with proper labels.
- Collection issues for 14 barangays due to a lack of garbage trucks.
- Scheduled waste collection three (3) times a week.
- Residents not practicing segregation, political reasons hinder penalties.
- Recyclable-dependent segregators to be hired as Job Order Service providers in 2024.

Recommendations:

- Strict enforcement of RA 9003, Section 21: Mandatory Segregation of Wastes.
- Penalties for barangays disposing of mixed wastes unsegregated.
- Practice 3R's (Reuse, Reduce and Recycle).
- Organize regular Clean-up Drives.



19. Reina Mercedes Residual Containment Area

ENR Office Personnel and Ms. Jessie May M. Santos, MENRO-Designate visited the RCA located at Brgy. Labinab Grande, Reina Mercedes, with the following findings:

- a. Non-operational rotary composter at the RCA.
- b. Hazardous vault present.
- c. Burning of mixed wastes observed near the area.
- d. Approximately 3 tons of residual wastes inside the RCA building;
- e. Waste collected from 10 out of 20 barangays.
- f. Approximately two (2) tons of waste per collection.
- g. No place to dispose of garbage due to absence of SLF in the municipality.
- h. LGU bought a parcel of land approximately six (6.0) hectares in Brgy. Dangan, Reina Mercedes proposed for SLF construction in CY 2024.

Recommendations:

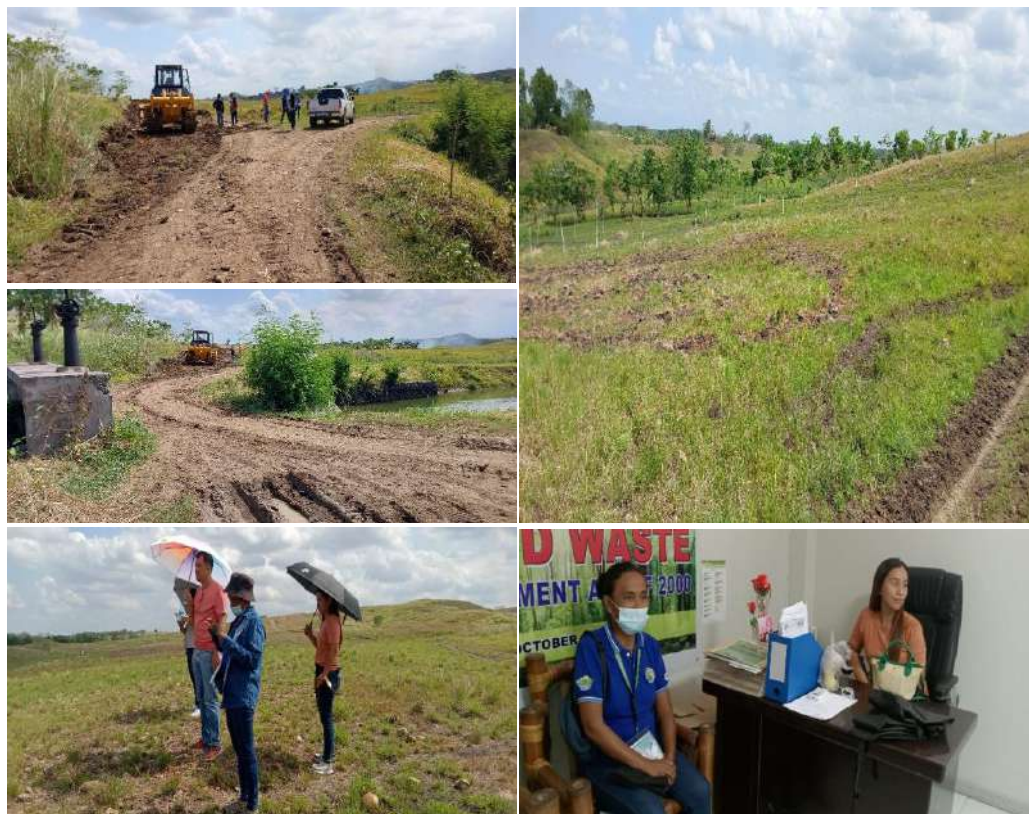
- Strict enforcement of RA 9003, Section 21: Mandatory Segregation of Wastes.
- Avoid burning wastes.
- Practice 3R's (Reuse, Reduce and Recycle).
- Organize regular Clean-up Drive and conduct IEC in school and community.



20. San Manuel Residual Containment Area and ongoing construction of SLF

Monitored the three (3) hectares SLF construction approximately 8 kilometers away from the National Highway. According to Mr. Jeho Sadac:

- Ongoing construction with plans for material procurement.
- Initial road construction to the site in progress.
- Daily waste collection, transported to Cauayan City SLF under a MOA expiring in December, 2023.



21. Aurora Residual Containment Area

The RCA located at the back of Aurora Municipal Hall was not functional during the visit due to temporary storage with sacks of rice seeds.

Observations:

- a. Daily waste collection scheduled, transported to Cauayan City SLF.
- b. MENRO Casiano reported no available area for SLF construction in Aurora.



V. Healthcare Waste Management

Under the provisions of the Local Government Code of 1991 (RA 7160) and the 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 systems within their respective jurisdictions.

The Provincial Government of Isabela through this office monitored Health Care Waste Management of the Provincial-operated hospitals and other healthcare facilities within the province. This office monitored four (4) district hospitals and one (1) Rural Health Unit (RHU) regarding their compliance with hazardous and infectious waste management systems and disposal.

Rural Health Unit located at Barangay Centro, Cabagan, Isabela

The RHU was monitored on February 22, 2023. Results from the monitoring were as follows:

- a. Hazardous and infectious wastes are stored in sealed carton boxes at the Material Recovery Facility (MRF).
- b. Septic vaults for pathological, chemical, and non-infectious waste are nearly full.
- c. Biodegradable and non-biodegradable wastes are mixed, and the MRF is not properly labeled.
- d. There is no chemical laboratory waste container. Pathological waste is treated with Chlorine (Zonrox).



Material Recovery Facility

Milagros Albano District Hospital located at Barangay Ngarag, Cabagan, Isabela

The hospital was monitored on February, 2023. The results were as follows:

- a. Hazardous waste collected by Integrated Waste Management Inc. is stored at San Pablo, Cauayan City Isabela.
- b. The septic tank cover is a galvanized sheet weighed down with heavy stones.
- c. Infectious waste is placed intact in boxes and gallons, stored in the old MRF with proper labels.
- d. Pathological waste is treated with chlorine before disposal in the septic vault, while expired medicine, drugs, and vaccines are placed in sealed boxes.
- e. The old labels in the MRF have faded, making them impossible to read. Stray cats entering the MRF cause the scattering and mixing of wastes.



Milagros Albano District Hospital

San Mariano Medicare Community Hospital (SMMCH) at Barangay Zone 1, San Mariano, Isabela

The hospital was monitored on March 29, 2023, and the following observations were made:

- a. The hospital uses a septic vault for healthcare waste disposal and the MRF for recyclable and special wastes.
- b. Color-coded trash bins are present at the hospital entrance.
- c. The Administrative Officer mentioned a lack of Environmental Permit, and the EMB-PEMU representative suggested seeking technical assistance for the permit application.



Manuel A. Roxas District Hospital (MARDH) at Roxas, Isabela

This office monitored MARDH on May 11, 2023. Observations were as follows:

- a. Residual Waste was collected every Sunday by the barangay.
- b. Hazardous wastes were deposited in their compost pit, and recyclable wastes were sold to junkshops.
- c. Healthcare wastes, such as syringes, were placed in plastic bottles stored in the MRF and collected by a private transporter.
- d. They have a septic vault for pathological wastes, such as placenta and blood.
- e. Trash bins outside the hospital were color-coded but not properly labeled, while bins inside were neither color-coded and nor properly labeled.
- f. All wastes were found to be mixed.



Gov. Faustino N. Dy Memorial Hospital at City of Ilagan, Isabela

The hospital was monitored on August 28, 2023, with the following results:

- a. Solid waste was collected daily and disposed of at Bgry. Sta. Catalina, City of Ilagan, Ilagan.
- b. Healthcare wastes were collected by a Private Transporter.
- c. They have a septic vault for pathological wastes like placenta and blood.
- d. Lack of garbage bins for solid and hazardous/ infectious wastes.
- e. Waste inside the MRF was mixed.
- f. Hazardous wastes like vials, syringes, needles, and expired medicines were placed in the MRF.



V. Ecosystems Management

a. Clean-up drive

One of the routine activities of the Provincial Government, facilitated by this Office is the organization of clean-up drives along oceans, rivers, and/or creeks including their tributaries. The objective is not only to maintain major waterways free from wastes, but also to engage and build partnerships with immediate partner agencies and communities for the implementation of environmental laws and regulations such as the Philippine Clean Water Act, Clean Air Act, and the Ecological Solid Waste Management Act of 2000.

- Provincial Capitol Compound on January 30, 2023
 - National Zero Waste Month

In preparation to the Bambanti Festival 2023 and coinciding with the National Zero Waste Month, personnel from this office, along with PGU Utility Workers, conducted a Clean-up Drive within the Capitol Compound. The festival generated a notable volume of mixed waste during its weeklong celebration. Collected waste were sorted and segregated at the MRF for further processing. Recyclable wastes were stored for sorting, and biodegradable wastes were placed in compost heap. Residual wastes were transported to the City of Ilagan SLF by the Provincial General Services Office (PGSO) garbage collectors.

Table 9. Waste collected during the 2023 Bambanti Festival

Biodegradable Wastes	76 kilograms
Recyclable Wastes	35 kilograms
Residual Wastes	356 kilograms
Special Wastes	15 kilograms



➤ **Isabela Provincial Eco-Park on June 5, 2023**

- **World Environment Day**

In celebration of World Environment Day, ENRO personnel, Job Orders and Isabela Environment Protection-Task Force (ISEP-TF) Operatives conducted a Clean-up Drive at Isabela Provincial Eco-Park.



➤ **Dinapigue, Isabela on June 30, 2023**

- **Environment Month**

For Environment Month, the PGI through this office, in collaboration with ICDO, ITO, PYDO, and LGU Dinapigue, organized a Coastal Clean-up Activity along Digumased sea shore. The event participation from various government agencies, stakeholder, offices of LGU Dinapigue, farmers, fisherfolks, youth/student leaders, indigenous people, municipal and barangay officials, national agencies, and private sectors.



➤ **Barangay Cabisera 10 (Lupigue), City of Ilagan on December 5, 2023**

A clean-up drive was conducted at Brgy. Cabisera 10, City of Ilagan, Isabela, participated by ENR personnel, ISEP-TF operatives, barangay officials, and health workers. Over 100 kilograms of solid waste were collected. Dragon Twelve Builders and Construction Supply assisted in cleaning drainage canals clogged with solid waste, including volumes of eroded soil.



➤ **Barangay District 2, Reina Mercedes, Isabela on December 5, 2023**

Another clean-up drive activity took place at Barangay District 2, Reina Mercedes, Isabela, where an estimated 50 kilograms of solid waste including plastics, bottles, and other residual wastes were collected. Seventy-four (74) barangay and SK officials participated.



b. Anti-Smoke Belching Campaign

In coordination with partner agencies, including DENR-Environmental Management Bureau-Region 02, Land Transportation Office-DOTr Region 02, the Provincial Government of Isabela through this office, implemented the Anti-Smoke Belching Campaign. This involved random roadside testing of vehicles, aligning with DENR-AO 2000-81 Rule XXXV: Roadside Inspection of Motor Vehicles. The campaign contributes to the Provincial Government’s Climate Change mitigation and adaptation programs, aiming to reduce potential sources of air pollution within its territorial jurisdictions.

Table 10. Showing the Location and Schedule of Anti-Smoke Belching Campaigns

Municipality	Date
National Highway, Quezon, San Isidro, Isabela	April 14, 2023
National Highway, San Pedro, Tumauni, Isabela	May 26, 2023
National Highway, Samonte, Quezon, Isabela	September 08, 2023
National Highway, San Felipe, City of Ilagan, Isabela	October 13, 2023

The team conducted random smoke testing using the opacimeter machines on diesel engine vehicles passing through the national highway. **Ninety-two (92)** vehicles were checked and **4%** did not meet the opacity standard of smoke emission. Vehicles not meeting the standard were served with citation tickets, and their driver’s licenses were confiscated by the LTO. To retrieve these documents, owners were required to pay the corresponding penalty, and their vehicles had met the prescribed opacity standard.



National Highway, Quezon, San Isidro, Isabela



National Highway, San Pedro, Tumauni, Isabela



National Highway, Samonte, Quezon, Isabela



National Highway, San Felipe, City of Ilagan, Isabela

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

To rigorously enforce the provisions of the EO No. 33, series 2020, the ISEP-Task Force conducted random monitoring at Barangays Batong-Labang, Sta. Catalina, Sta. Isabel Sur, City of Ilagan, Isabela. All concerned barangays were briefed on the importance of proper waste disposal and its adverse effects on the environment.



VIII. Provincial Solid Waste Management Board

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

First Quarter

1. Monitoring Systems for all Wastes Disposal Facilities in the Province.
2. Status of Submission of all Unapproved ESWM Plans.

Second Quarter

1. Updates on the Status of LGUs Compliance to Republic Act 9003.
2. Briefing about RA No. 11898.
3. Insights from the Environmental Summit held at Manila Hotel.
4. Awarding of the Most Environment-Friendly Barangays for 2022 and launching of the same for the 2023 Search.

Third Quarter

1. Ambient Water Quality Sampling and Protocols.
2. DAO No. 2016-08 "Water Quality Guidelines and General and Effluent Standards of 2016"
3. DAO No. 2021-19 "Updated Water Quality Guidelines (WQG) and General Effluent Standards (GES) for selected parameters"
4. Status of Water Quality Monitoring within four (4) Coastal Municipalities
5. Updates on Coastal Marine Ecosystem Management Programs of the DENR
6. 2023 Search for the Most Environment-Friendly Barangays

7. Schedule of the 4th Quarter PSWMB Meeting.

Fourth Quarter

- 1. Update on City/Municipal waste disposal management of the province as of September 2023m along with valuable insights and challenges based on SLF monitoring.



1st quarter meeting Board meeting



2nd quarter meeting Board meeting



3rd quarter meeting Board meeting



4th quarter meeting Board meeting

X. Information, Education, and Communication Activities

Successful project implementation hinges on active stakeholder participation and engaging the public in planning and execution. A vital method to instill environmental consciousness is through the execution of Information, Education, and Communication (IEC) Activities.

Dinapigue, Isabela (June 29, 2023)- In celebration of Environment Month, ENR personnel visited the Municipality of Dinapigue to conduct a consultative meeting with Sangguniang Kabataan Chairpersons. For. Rosemarie T. Zabala provided an orientation on RA 9003 emphasizing segregation at source. Following this, she presented her Action Learning Project (ALP) Action Learning Project (ALP) a Community-



Based Youth Environment Program for potential integration into the Comprehensive Barangay Youth Development Plan (CBYDP)

Cabisera 10, City of Ilagan, Isabela (December 05, 2023) – An Information, Education, and Communication (IEC) session aimed to enhance public awareness on proper solid waste management, promoting greening through vegetable production, and tree planting. ENRO staff educated Agta Village residents on the significance of waste segregation for a clean-up and green barangay, with a particular focus on Agta Village.



ENRO persistently encourages public responsibility, emphasizing proper waste segregation at home and active participation in government initiatives a clean and safe environment.

XI. 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 provides technical assistance to LGUs, aiding in the proper implementation of solid waste management and conducting seminars on RA 9003, the Ecological Solid Waste Management Act of 2000.

- Burgos, Isabela (January 19, 2023):** In response to LGU Burgos request, ENRO personnel participated as evaluators in the Municipal-Wide Search for the Most Environment-Friendly Barangays. an exit conference with Barangay Officials followed the evaluation, discussing recommendations and findings.



2. **Alicia, Isabela (March 14, 2023):** ENRO personnel attended the final review of the LGU's plan for project KISK (ka Isa Sa Kalikasan), focusing on implementing RA 9003. The Project aimed to enhance awareness and cooperation among constituents in proper solid waste management.



3. **April 19, 2023:** ENRO personnel served a resource speaker on National Training on Risk Resiliency Program (RRP) Modalities and Implementation, emphasizing ecological solid waste management or RA 9003.



4. **San Manuel, Isabela on (July 11, 2023):** ENRO personnel acted as resource speakers on RA 9003, discussing its general overview, institutional mechanisms, fines and penalties, and the importance of waste segregation.

5. **Quezon, Isabela on (August 10, 2023):** Invited for the celebration of National Environmental Month, ENRO personnel participated in activities organized by MENRO and SK, fostering environmental awareness among the youth.



6. **November 24 & 29, 2023:** ENRO personnel participated in PSWD's training on "Enhanced Parent Effectiveness Service," discussing the importance of a healthy environment for children and presenting the status of solid waste management in the province.



7. **San Isidro, Isabela on December 13, 2023:** ENRO provided technical assistance in the Orientation of RA 9003 and Training on Waste Diversion/Recycling, involving barangay officials, school heads, and other local officials.



IX. Other Related Activities

Capacity Building Attended

- Attended Technical Scoping on the Environment Compliance Certificate (ECC) of Clean World Sustainable Solutions, Inc. for the proposed Treatment, Storage, and Disposal (TSD) Facility on March 20, 2023, at Green Yard Hotel, Cauayan City, Isabela.



- ENRO personnel attended a 40-hour training on Disaster Waste Management of DAP-Sustainable Human Development Program at DAP Conference Center, Tagaytay City on June 5-9, 2023.



- Personnel from this office attended the 2-day Solid Waste Management Association of the Philippines Conference (SWAPPCon) 2023 at Luxent Hotel, Diliman, Quezon City on November 26-29, 2023.



- Attended orientation on RA 11898 known also known as Extended Producer Responsibility (EPR) Act of 2022 from November 30 to December 1, 2023 at Casa Angela Therese Hotel and Convention Center, Tuguegarao City, Cagayan.





MINERAL RESOURCES MANAGEMENT DIVISION

MINERAL MANAGEMENT RESOURCES DIVISION

I. Monitoring of Mineral/ Quarry Operations

A. Processing and Issuance of Permits

The ENR Office serving as the implementing arm of the Provincial Government of Isabela for ENR concerns, is entrusted with receiving and processing applications for various permits under RA 7942, also known as the Philippine Mining Act of 1995. These include small-scale mining, sand and gravel, quarry, guano, gemstone gathering, and gratuitous permits, as well as industrial sand and gravel permits not exceeding five (5) hectares.

In accordance with RA 7942 and Provincial Ordinance No. 05, series of 2014, the office conducts field verification and evaluation of quarry areas to ensure compliance of permit holders/operators with environmental laws, rules, and regulations. The results of field verification become integral parts of permit application requirements before endorsement to the Provincial Mining Regulatory Board (PMRB) for deliberation. The PMRB thoroughly reviews and deliberates permit applications for approval, subsequently forwarding endorsed applications to the Provincial Governor for final action.

1. Processing of Permit Applications

In the current year, the office received **Thirteen (13) Commercial Sand and Gravel (CSAG) Permit Applications** for various quarry areas within the province. These applications were accompanied by a corresponding administrative/processing fees collected by the Provincial Treasurer’s Office, totaling **One Hundred Forty-Seven Thousand Two Hundred Ninety pesos (Php147,290.00)**. This reflects the commitment to regulatory processes and financial transparency in the management of mineral resources within the province.

Table 11. List of Received Commercial Sand and Gravel Permit Applications

Name of Applicants		Quarry Site	Area (has)
001	Edwin P. Uy	Banquero, Reina Mercedes, Isabela	5.00
002	Rosalino U. Urandayan	San Ignacio, City of Ilagan, Isabela	4.99
003	Jun P. Bulos	Furao, Gamu, Isabela	4.99
004	Elvin M. Ramos	Casibarag Norte, Cabagan, Isabela	5.00
005	Glenn Moore Angelo E. Caramancion	Disimpit, Jones, Isabela	3.90
006	Reynaldo G. Atuan, Jr.	San Rafael East, Sta. Maria, Isabela	4.00
007	San Jose Calamagui Gravel and Sand	Calamagui East, Sta. Maria, Isabela	5.00
008	Jessie T. Bangloy	Nemmatan, San Agustin, Isabela	5.00

009	Rofelin M. Dela Cruz	Sinaoangan Sur, San Agustin, Isabela	3.80
010	Accelerated Metal Technology and Construction, Inc. rep. by Engr. Antonio M. Tumolva	Guibang & District II, Gamu, Isabela	4.98
011	Lapogan Multi-Purpose Cooperative rep. by Marieta B. Bayucan	Lapogan, Tumauni, Isabela	4.97
012	Mary Jane P. Samus	Mozzozzin Norte, Sta. Maria, Isabela	5.00
013	Roger P. Alejandro	Kalabaza & Panecien, Aurora, Isabela	2.50

2. Site Verification and Inspection of Applied Quarry Areas

During the current year, thorough site verification and inspection were conducted for all thirteen (13) areas that applied for Commercial Sand and Gravel Permits. Personnel from this office meticulously validated the technical descriptions outlined in the survey maps, concurrently assessing the conditions of the areas that might be affected by extraction activities.

In general, the inspected areas exhibit rich deposits of sand and gravel, making them suitable and recommended for extraction.

The following summarizes the findings of the site verification and inspection:

Table 12. Results of the Site Verification and Inspection of Applied Quarry Areas

Applicant		Area Applied	Summary of Field Verification Report
1.	Edwin P. Uy	5.0 hectares Banquero, Reina Mercedes, Isabela	✓ Public land accessible via all-weather road; ✓ Bounded by Magat River; ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
2.	Rosalino U. Urandayan	4.99 hectares San Ignacio, City of Ilagan, Isabela	✓ Public land accessible via all-weather road; ✓ Bounded by Cagayan River; ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
3.	Jun P. Bulos	5.0 hectares Furao, Gamu, Isabela	✓ Public land accessible via all-weather road; ✓ Bounded by agricultural land and Magat River; ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
4.	Elvin M. Ramos	5.0 hectares Casibarag Norte, Cabagan, Isabela	✓ Public land accessible to any vehicle; ✓ Bounded by agricultural land and Cagayan River;

			<ul style="list-style-type: none"> ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
5.	Glenn Moore Angelo E. Caramancion	4.9 hectares Disimpit, Jones, Isabela	<ul style="list-style-type: none"> ✓ Public land accessible via all-weather road; ✓ Bounded by Cagayan Viver and Flood Control (Cabion-type) structure within 1 kilometer; ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
6.	Reynaldo G. Atuan, Jr.	4.0 hectares San Rafael East, Sta. Maria, Isabela	<ul style="list-style-type: none"> ✓ Public land accessible via all-weather road; ✓ Bounded by agricultural land and Cagayan River; ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
7.	San Jose Calamagui Gravel and Sand	5.0 hectares Calamagui East, Sta. Maria, Isabela	<ul style="list-style-type: none"> ✓ Public land accessible via all-weather road; ✓ Bounded by Dried River Bed and Cagayan River; ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
8.	Jessie T. Bangloy	3.8 hectares Nemmatan, San Agustin, Isabela	<ul style="list-style-type: none"> ✓ Public land accessible via all-weather road; ✓ Bounded by Cagayan River Dried River Bed; ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
9.	Rofelin M. Dela Cruz	5.0 hectares Sinaoangan Sur, San Agustin, Isabela	<ul style="list-style-type: none"> ✓ Public land accessible via all-weather road; ✓ Bounded by Cagayan River and Dried River Bed; ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
10.	Accelerated Metal Technology and Construction, Inc. rep. by Engr. Antonio M. Tumolva	5.0 hectares Guibang & District II, Gamu, Isabela	<ul style="list-style-type: none"> ✓ Public land accessible via all-weather road; ✓ Bounded by Dried River Bed and Cagayan River; ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
11.	Lapogan Multi-Purpose Cooperative rep. by Marieta B. Bayucan	4.97 hectares Lapogan, Tumauni, Isabela	<ul style="list-style-type: none"> ✓ Public land accessible via all-weather road; ✓ Bounded by sand and gravel materials, Cagayan River and Dried River Bed; ✓ Rich sand and gravel deposits; ✓ Suitable for extraction.
12.	Mary Jane P. Samus	5.0 hectares Mozzozzin Norte, Sta. Maria, Isabela	<ul style="list-style-type: none"> ✓ Public land accessible only during summer (low river water level); ✓ Bounded by Dried River Bed (Tao-Tao River); ✓ Suitable for extraction.

13.	Roger P. Alejandro	5.0 hectares Kalabaza & Panecien, Aurora, Isabela	<ul style="list-style-type: none">✓ Public land accessible to any vehicle;✓ Bounded by Dried River Bed (Tao-Tao River);✓ Rich sand and gravel deposits;✓ Suitable for extraction.
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Recommendations for each area include the establishment of landmarks indicating boundaries, giving priority to specific extraction areas, avoiding screening in the riverbed, and ensuring that extraction pits are covered immediately if not further extraction is intended for the specific area. These measures are aimed at promoting responsible and sustainable sand and gravel extraction practices.



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



Area applied by Mr. Jun P. Bulos located at Barangay Furao, Gamu, Isabela



Area applied by Mr. Elvin Ramos located at Barangay Casibarang Norte, Cabagan, Isabela



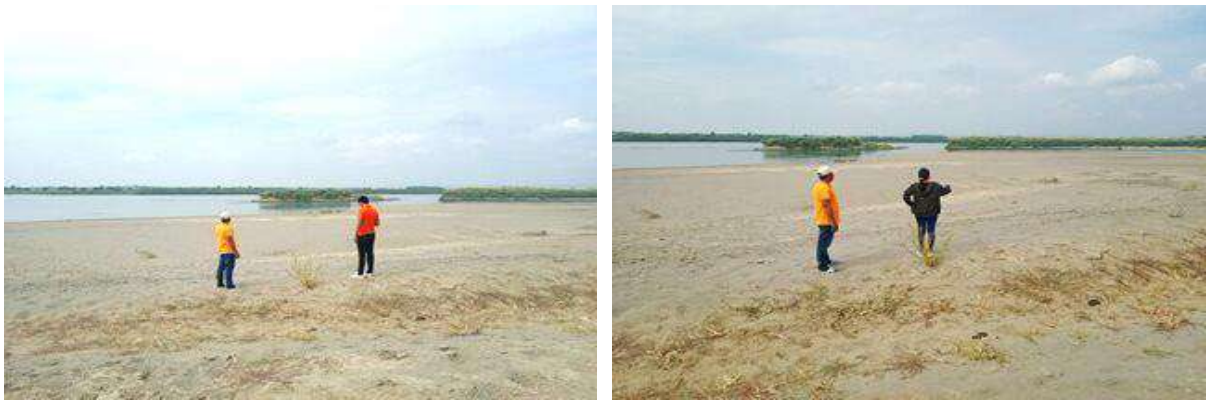
Area applied by Mr. Rosalino U. Urandayan, Jr. located at Barangay San Ignacio, City of Ilagan, Isabela



Area applied by San Jose Calamagui Gravel and Sand located at Calamagui East, Santa Maria, Isabela



Area applied by Ms. Rofelin M. Dela Cruz located at Sinaoangan, San Agustin, Isabela



Area applied by Mr. Reynaldo G. Atuan, Jr. located at San Rafael East, Santa Maria, Isabela



Area applied by Lapogan Multi-Purpose Cooperative located at Lapogan, Tumauni, Isabela



Area applied by Mr. Glenn Moore Angelo E. Caramancion located at Disimpit, Jones, Isabela



Area applied by Mr. Jessie T. Bangloy located at Nemmatan, San Agustin, Isabela



Area applied by Ms. Mary Jane P. Samus located at Mozzozzin Norte, Sta. Maria, Isabela



Area applied by Mr. Roger P. Alejandro located at Panecien and Kalabaza, Aurora, Isabela

3. Provincial Mining Regulatory Board (PMRB) Deliberation

Upon receipt, all applications underwent review and deliberation by the Provincial Mining Regulatory Board (PMRB). Out of thirteen (13) Commercial Sand and Gravel (CSAG) Permit Applications received, ten (10) were subjected to deliberation.

Table 13. List of Commercial Sand and Gravel Permit Applications Deliberated by PMRB

Name of Applicants		Quarry Site	Area (has)
001	Edwin P. Uy	Banquero, Reina Mercedes, Isabela	5.00
002	Rosalino U. Urandayan	San Ignacio, City of Ilagan, Isabela	4.99
003	Jun P. Bulos	Furao, Gamu, Isabela	4.99
004	Elvin M. Ramos	Casibarag Norte, Cabagan, Isabela	5.00
005	Glenn Moore Angelo E. Caramancion	Disimpit, Jones, Isabela	3.90
006	Reynaldo G. Atuan, Jr.	San Rafael East, Sta. Maria, Isabela	4.00
007	San Jose Calamagui Gravel and Sand	Calamagui East, Sta. Maria, Isabela	5.00
008	Jessie T. Bangloy	Nemmatan, San Agustin, Isabela	5.00
009	Rofelin M. Dela Cruz	Sinaoangan Sur, San Agustin, Isabela	3.80

010	Accelerated Metal Technology and Construction, Inc. rep. by Engr. Antonio M. Tumolva	Guibang & District II, Gamu, Isabela	4.98
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The Board convened on May 3, 2023 at the Provincial Ecology Center within the ENRO Compound, Provincial Capitol, Alibagu, City of Ilagan, Isabela. Following a comprehensive review of the requirements and extensive discussions, the Board resolved a resolution to endorse the applications to the Provincial Governor for final review and approval. However, this endorsement was contingent upon the submission of the updated 2-year Development/Work Plans.

By virtue of Resolution No-001-2023, the PMRB specified the requirement for updated plans. Unfortunately, the permit applicants failed to submit the required documentation within the stipulated timeframe. Consequently, no permit application was endorsed to the Provincial Governor for final action due to the absence of the necessary updated plans.

B. Accreditation of Haulers/Dealers/Traders and Retailers

To maintain regulatory oversight, all haulers, traders, dealers, and retailers involved in mineral/mineral products/by-products must undergo accreditation by the Provincial Government through a Memorandum of Agreement with the Mines and Geo-Sciences Bureau Regional Office No. 02.

In the current year, this office efficiently received, processed applications, and issued Accreditation Permits to **Three Hundred Sixty (360)** haulers/ dealers/traders and retailers engaged in the trade of mineral products and by-products. Simultaneously, **One Thousand Eight Hundred Forty-One (1,841) accreditation stickers** were issued for the registered conveyances and equipment.

Table 14. Summary of Issued Accreditation Permits for CY 2023.

Month	Number of Accreditation Permit Issued	Number of Units Registered
January	222	1,164
February	77	356
March	33	178
April	6	36
May	3	25
June	2	10
July	8	24
August	4	27
September	5	17
October	-	4
TOTAL	360	1,841

A substantial amount of **One Million Two Hundred Seventy-Five Thousand Four Hundred pesos** (Php 1,275,400.00) was remitted to the Provincial Treasurer’s Office (PTO). The remittance comprises application fees totaling Php. 907,200.00 and Php. 368,200.00 for

the issuance of stickers. These fees reflect the commitment to effective oversight and regulation of mineral trade within the province.

Table 15. *List of Accredited Haulers/Dealers/Traders and Retailers for CY 2023*

NO.	NAME	ADDRESS	NO OF UNITS
1.	Lucky 21 Civil Engineering Construction rep by Edmund Chan Bascas	Batal, Santiago City	19
2.	Renato S. Santiago	San Isidro, City of Ilagan, Isabela	3
3.	Almazan Heavy Equipment Rentals rep by Roel A. Almazan	Manano, Mallig, Isabela	14
4.	Dela Cruz Construction Supply rep by Lolita L. Dela Cruz	Colunguan, Sto. Tomas, Isabela	3
5.	LM Construction rep by Louie A. Mangalos	Antonino, Alicia, Isabela	8
6.	RVG Merchandising rep by Romeo C. Gomez	Marana 3 rd , City of Ilagan, Isabela	4
7.	Ckc Palay Buying and Rice Dealer by Bernardo A. Pua	Bella Luz, San Mateo, Isabela	3
8.	Mr. Gaudencio A. Reyes, Jr.	Magsaysay, Naguilian, Isabela	7
9.	Rodriguez Gravel and Sand by Ms. Redelyn C. Rodriguez	Ugac Sur, Tuguegarao City, Cagayan	4
10.	Ms. Ines S. Cabaccan	San Isidro, City of Ilagan, Isabela	10
11.	Mr. Antonio S. Yu, Jr.	San Isidro, City of Ilagan, Isabela	9
12.	Advanced Foundation Construction System Corp. By Mr. Pepito Valdez	Minanga, Tumauni, Isabela	2
13.	Infinitum 888 Construction and Development Corp. by Mr. George S. Samonte	Centro 2, Angadanan, Isabela	1
14.	Infiniti Construction and Development Corp. by Mr. Alfredo Tolentino	Centro 2, Angadanan, Isabela	3
15.	Castillo Hardware and Construction Supply by Mr. Larry A. Castillo	Rizaluna, Cordon, Isabela	1
16.	J6 Gravel and Sand Trading by Ms. Judee C. Mateo	Victoria, San Mateo, Isabela	3
17.	Mr. Marvin A. Reosia	San Andres, City of Ilagan, Isabela	5
18.	Triple 8 Gravel and Sand Trading by Ms. Maria Theresa F. Abella	Dist 3, San Manuel, Isabela	4

19.	Accelerated Metal Technology and Const. Inc. By Mr. Engr. Antonio M. Tumolva	Guibang, Gamu, Isabela	13
20.	Golden Tech Construction Corporation by Mr. Armando S. Tan	Raniag, Ramon, Isabela	20
21.	Dragon-4 Sand and Gravel Supply by Mr. Jun P. Bulos	Furao, Gamu, Isabela	10
22.	Furao Sand and Gravel Trading by Mr. Edwin P. Uy	Banquero, Reina Mercedes, Isabela	9
23.	Minuri 6x6 Association by Mr. Allan C. Carabbacan	Minuri, Jones, Isabela	1
24.	Minuri 6x6 Association by Mr. Edwin R. Pasion	Minuri, Jones, Isabela	1
25.	Minuri 6x6 Association by Mr. Joan M. Sao	Minuri, Jones, Isabela	1
26.	Cs Mini Hardware by Mr. Cesar Ian M. Santos	San Isidro, City of Ilagan, Isabela	2
27.	D.A. Cadeliña Construction by Ms. Evelyn C. Cadeliña	Daramuangan Sur, San Mateo, Isabela	2
28.	Liahna Sand and Gravel Supply by Ms. Lily Ann M. Obra	Raniag, Ramon, Isabela	8
29.	Handy Manny Construction Solutions by Mr. Vladdymer M. Lucas	Centro East, Santiago City, Isabela	6
30.	Enteng Gravel and Sand Hollow Blocks Supplies by Mr. Vicente B. Pata	Baluarte, Santiago City, Isabela	1
31.	Ffjj Construction by Ms. Osmeña L. Palangalan	Catalunan, Davao City	12
32.	Euan Enterprises by Mr. Fernando L. Mangabat	Centro 2, Luna, Isabela	9
33.	Northgold Construction by Mr. Jason S. Bernabe	Sta. Rita, Aurora, Isabela	10
34.	Ksc Construction Supply by Ms. Felicitas S. Claraval	Callao, Alicia, Isabela	4
35.	Mr. Jhone Mart Cascayan	Minuri, Jones, Isabela	1
36.	Mr. Felix C. Lauriano	Minuri, Jones, Isabela	1
37.	Ms. Marissa G. Geronimo	Minuri, Jones, Isabela	2
38.	Mr. Reynold M. Villanueva	Minuri, Jones, Isabela	1
39.	Ms. Marina V. Aureda	Minuri, Jones, Isabela	1
40.	Nenita Uy Hardware by Ms. Nenita B. Uy	San Mateo, Tumauini, Isabela	16
41.	Mr. Rosalino. U Urandayan	San Ignacio, City of Ilagan, Isabela	3
42.	Galingana General Merchandise by Mr. Larry Galingana	Bannawag, Aurora, Isabela	5

43.	Bit's Hardware and Construction Supply by Mr. Steve Daniel Venancio E. Tio III	Diamantina, Cabatuan, Isabela	20
44.	Queen Town Merchandising by Mr. Victor P. Saladino	San Fabian, Echague, Isabela	1
45.	Super 5R Corporation by Mr. Mario D. Paragua	Ugad, Cabagan, Isabela	6
46.	Jst Construction by Mr. Jose S. Tan	Plaridel, Santiago City, Isabela	24
47.	Seven Diamond Merchandising by Mr. Jonathan Erlic B. Uy	Plaridel, Santiago City, Isabela	18
48.	Rf Hollow Blocks Gravel and Sand by Ms. Fe C. Colobong	La Paz, Cabatuan, Isabela	4
49.	Danysons Construction and Development Corporation	District 1, Cauayan City, Isabela	34
50.	Top Art Gravel and Sand by Mr. Dominador L. Garay	San Andres, City of Ilagan, Isabela	5
51.	Mr. Fedirico Villena	Villa Imelda, City of Ilagan, Isabela	4
52.	Mr. Jesus D. Laddaran	Ambatali, Ramon, Isabela	3
53.	Mr. Henry P. Danga	Brgy.1, Jones, Isabela	3
54.	Mr. Arthur U. Bulan	Payac, Jones, Isabela	2
55.	Reydel General Merchandise by Mr. Reynold B. Delmendo	Magsaysay, Alicia, Isabela	8
56.	AF Manuel Construction, Inc. by Ms. Aurea F. Manuel	Brgy. 2, San Mateo, Isabela	11
57.	Jestony Gravel and Sand Trading by Mr. Antonio B. Gangan	Alinguigan 2 nd , City of Ilagan, Isabela	2
58.	Gnm Concrete Products and Mini Hardware by Mr. Generoso N. Manuel	Buenavista, Santiago City, Isabela	9
59.	Esteban's Hollow Blocks and Gravel Sand by Mr. William M. Esteban	Batal, Santiago City, Isabela	7
60.	Jb Construction Aggregates Trading by Julian W. Dacaca	Rizaluna, Alicia, Isabela	3
61.	Tri-Blocks Enterprises by Ms. Precy D. Tan	City Road Calao East, Santiago City, Isabela	9
62.	619 Builders Construction Corporation by Mr. Fernando G. Magno	Nueva Era, San Manuel, Isabela	19
63.	A. De Guia Construction and Development Corporation by Mr. Armando M. De Guia	Antonino, Alicia, Isabela	42
64.	Haniel Buyng Station and Agricultural Supply by Ms. Honeylet A. Labiano	Antonino, Alicia, Isabela	4

65.	Mardeco Concrete Products and Manufacturing by Ms. Zeina Sally P. Paguio	Sinsayon, Santiago City, Isabela	1
66.	Top Rank Construction and Supplies Corporation	Plaridel, Santiago City, Isabela	9
67.	Tumamao Hardware and Construction Supply by Ms. Teresita O. Tumamao	Rizal East, San Isidro, Isabela	3
68.	Jann-Norris Construction and Supplies, Inc. by Mr. Noly Okamoto	Macate Bambang, Nueva Vizcaya, Isabela	11
69.	Mr. Robert E. Conde	Oscariz, Ramon, Isabela	2
70.	Ms. Mercedes P. Uy	Alibagu, City of Ilagan, Isabela	1
71.	Tollmack Sand and Gravel Corporation by Mr. Joseph Marc S. Dy	San Fermin, Cauayan City, Isabela	7
72.	Mr. Efren S. Santiago	San Isidro, City of Ilagan, Isabela	3
73.	Mr. Ernesto S. Fernandez	Sinsayon, Santiago City, Isabela	2
74.	Three A's Hardware by Ms. Marnelle A. Gannaban	Ugad, Cabagan, Isabela	10
75.	Cabacungan Trans by Mr. Roland Cabacungan	Old Centro Proper, San Mateo, Isabela	2
76.	RLDY Hardware and Construction Supply by Mr. Darnel M. Cabauatan	Rang-Ayan, City of Ilagan, Isabela	2
77.	Alcantara Hardware by Mr. Pepito L. Alcantara	Antonino, Alicia, Isabela	15
78.	Northern Tumauni Star-Electrical and Construction by Ms. Annaliza Tagufa	San Pedro, Tumauni, Isabela	6
79.	D And C Construction Supplies and Enterprises by Mr. Danny S. De Leon	Bugallon Norte, Ramon, Isabela	8
80.	Mr. Eduardo D. Dela Cruz	Marasat Pequeño, San Mateo, Isabela	4
81.	A And J Designs and Construction by Mr. Jovani Q. Flores	San Isidro, Diffun, Quirino	1
82.	Mr. Rey Luther C. Itchon	Calao East, Santiago City, Isabela	2
83.	Diffun Saranay and Development Cooperative by Ms. Retchelle J. Jose	San Isidro, Diffun, Quirino	2
84.	Bryan General Merchandise and Hardware by Mr. Barney Leonard C. Pua	#7 Quezon St. Magsaysay, Alicia, Isabela	7
85.	Jvp Hardware and General Merchandise by Mr. Jester C. Pua	Quezon St., Magsaysay, Alicia, Isabela	5

86.	Buguina Hollowblocks Manufacturing by Mr. Ferdito A. Buguina	Lullutan, City of Ilagan, Isabela	2
87.	R.A.L. Mini Hardware and Electrical Supply by Mr. Robert S. Lim	Bugallon Proper, Ramon, Isabela	2
88.	Ms. Melba G. Castillo	Bacarena, San Mateo, Isabela	12
89.	Upland Construction and Engineering Services by Mr. Ceazar M. Capuyan	Sta. Lucia, Quirino, Isabela	5
90.	TI Bros Construction and Engineering Services by Mr. Ceazar M. Capuyan	Centro Luna, Isabela	16
91.	Rrc Co. Inc. by Mr. Reynilo R. Chua	Rang-Ayan, Roxas, Isabela	14
92.	Mr. Wilson M. Ibana	Sto. Domingo, Jones, Isabela	1
93.	Tj's Concrete Product and Construction Supply by Ms. Josephine T. Bautista	Rizal, Santiago City, Isabela	2
94.	Mr. Arjay N. Baccal	Sto. Domingo, Jones, Isabela	1
95.	Extreme Builders by Ms. Lynie O. Panganiban	#328 Centro West, Santiago City, Isabela	2
96.	Richland Hardware by Ms. Myla Shayne S. Aliac	San Miguel, Ramon, Isabela	1
97.	3c Construction Supplies Trading by Mr. Carlo Giovanni H. Tadena	Mangandingay, Cabarroguis, Quirino	4
98.	Bartolome's Hardware by Ms. Juanito L. Bartolome	Marana 1 st , City of Ilagan, Isabela	1
99.	Great Wall Commercial by Ms. Gloria U. Singson	Andres Bonifacio, Diffun, Quirino	1
100.	Mabuhay Concrete Product by Ms. Belly M. Ramos	Plaridel, Santiago City	3
101.	Tilemaster and Construction Supply by Ms. Elizabeth Undag	Batal, Santiago City	3
102.	Maramag Da Gravel and Sand by Mr. Danilo A. Maramag	Calamagui 1 st , City of Ilagan, Isabela	1
103.	Beley Iron Works by Mr. Johnny D. Beley	Caloocan, Santiago City, Isabela	3
104.	Triple 222 Realty and Development by Jarick Jan R. Rivera	Calao West, Santiago City, Isabela	5
105.	PMJ Construction Supply by Mr. Raul Ritchie B. Padilla	Sinsayon, Santiago City, Isabela	1
106.	Jei Jei Hardware by Ms. Jerica S. Saponay	Zone 6, Fuyo, City of Ilagan, Isabela	1
107.	Hannah Construction Supplies Trading by Mr. Noel B. Navalta	San Placido, Roxas, Isabela	15
108.	Cerezo Hardware and Construction Supplies by Ms. Richelle A. Cerezo	Plaridel, Santiago City, Isabela	4

109.	Joren's Concrete Products Trading by Mr. Anthony F. Caser	Rizal, Santiago City, Isabela	1
110.	DLC Gravel And Sand by Ms. Degullacion L. Cabbab	Zone 2 San Mariano, Isabela	2
111.	San Lazaro Construction by Mr. Dan Carlo P. Maquinad	Cabulay, Santiago City, Isabela	1
112.	Gelo's Gravel and Sand Trading by Mr. Dennis T. Andres	Bantug, Roxas, Isabela	1
113.	F.S. Bernabe Gravel and Sand and Concrete Products by Mr. Felix S. Bernabe	Colunguan, Sto. Tomas, Isabela	5
114.	CMN Enterprises Co. by Mr. Dave P. Barut	Rizal, Roxas, Isabela	3
115.	JWU Construction and Supply by Mr. John Winston D. Uy	Rizaluna, Cordon, Isabela	10
116.	JJBRO Hauling Services by Mr. Obladi B. Batang	Aglipay, Quirino, Isabela	2
117.	Mizrach Hauling Services by Mr. John Alvin T. Baligod	Minuri, Jones, Isabela	3
118.	Mr. Jun U. Balloran	Minuri, Jones, Isabela	3
119.	Mr. Francis Mart R. Apolinario	Minuri, Jones, Isabela	2
120.	Ms. Janice G. Ramos	Minuri, Jones, Isabela	1
121.	JGG Hardware and General Merchandise by Mr. Expedito G. Gumiran Jr.	Marana 3 rd , City of Ilagan, Isabela	2
122.	Vicar Gravel Trading by Mr. Victorino D. Pascual	3252 San Fermin, Cauayan City, Isabela	8
123.	Rbu Hardware and Construction Supply by Ms. Sheila Anne B. Uy	Cubag, Cabagan, Isabela	4
124.	Atuan's Hardware, Hollowblock, Gravel and Sand by Mr. Reynaldo G. Atuan, Jr.	San Rafael, Sta. Maria, Isabela	1
125.	JM888 Construction Supplies Trading by Mr. Jerome P. Mamaril	Pissay, Angadanan, Isabela	2
126.	Mr. Wilbert R. Curutan	Napaliong, Jones, Isabela	1
127.	Mr. Edison A. Bulusan	Minuri, Jones, Isabela	1
128.	Mr. Jacques Benedick R. Vibar	Napaliong, Jones, Isabela	3
129.	Rkad's Hardware and Construction Supplies by Ms. Susan Kristine A. Acosta	Antonio, Alicia, Isabela	2
130.	Mr. Jun Jun A. Cuaresma	Cabisera 10, City of Ilagan, Isabela	3
131.	Elvin-Kevin Construction and Engineering Services by Mr. Elvin M. Ramos, Sr.	Centro, Cabagan, Isabela	12
132.	Mr. Joselito A. Suyat	Brgy. 1, Jones, Isabela	1

133.	Ms. Corozon P. Uy	Brgy. 1, Jones, Isabela	2
134.	Molina Hollowblocks Sand and Gravel Trading by Mr. Roldan R. Molina	Ballesteros, Aurora, Isabela	8
135.	Jackson's Buying Station and Grain Dealer by Ms. Julieta T. Uy	Calamagui 2 nd , City of Ilagan, Isabela	1
136.	Fiscaro's Hardware and Trading by Ms. Veronica Fiscaro	Brgy. 3, San Mateo, Isabela	3
137.	A.I.A. Construction by Mr. Alex I. Avecilla	Bugallon Proper 1, Ramon, Isabela	5
138.	Mr. Jeonard Galla	Napaliong, Jones, Isabela	2
139.	Isabela Royal Builders by Ms. Stefanie Angeline P. Que	Prenza National Highway, Cauayan City, Isabela	13
140.	ICL Hardware, Gravel and Sand by Mr. Ivan P. Faire	Marana 1 st , City of Ilagan, Isabela	8
141.	OKC General Merchandise by Mr. Dennis D. Ongkiato	Mabini, Santiago City, Isabela	2
142.	San Jose Calamagui Gravel and Sand by Mr. Isaac Hilario G. Pagautan	Calamagui North, Sta. Maria, Isabela	9
143.	Hannah's Hardware by Ms. Alma T. Barut	Zone 4 San Juan, Echague, Isabela	2
144.	Ferrer Gravel and Sand by Mr. Arturo D. Ferrer	Rosario, Santiago City	1
145.	Wbs Construction and Construction Supply	Batal, Santiago City	20
146.	Jhervinjan Brother's Trading Inc. by Mr. Jhericson F. Co	Aurora, Alicia, Isabela	6
147.	R.C. Balayan Gravel and Sand by Mr. Ramon C. Balayan	Calamagui 1 st , City of Ilagan, Isabela	1
148.	JUB Hardware and Construction Supply by Ms. Julieta U Bautista	Alibagu, City of Ilagan, Isabela	2
149.	Esteban Hardware And General Merchandise by Ms. Mary Ann L. Esteban	Ambatali, Ramon, Isabela	2
150.	Imred Asia Construction and Supply Opc. By Mr. Dominic Benedict T. Almoradie	Magsaysay, Cordon, Isabela	2
151.	GC Gravel and Sand and Quarry by Mr. Gelacio S. Carlos, Jr.	Diamantina, Cabatuan, Isabela	14
152.	Ms. Darlene V. Picar	La Paz, Saguday, Quirino	1
153.	ITP Properties Corporation by Mr. Isidro T. Pajarillaga	Project3, Quezon City	6
154.	Mr. June T. Yadao	Osmeña, City of Ilagan, Isabela	1
155.	Dragon Hatched Construction by Mr. Dean Anthony Argaza	Sta. Victoria, City of Ilagan, Isabela	27

156.	Luzviminda's General Merchandise by Ms. Luzviminda C. Guyud	Centro 2, San Guillermo, Isabela	2
157.	R And R Hardware and Construction Supplies by Mr. Reynold M. Uy	Cullalabo Del Norte, Burgos, Isabela	5
158.	Graysand Construction Supply by Ms. Alesandra C. Viernes	Bugallon Proper, Ramon, Isabela	7
159.	A-CZAR18 Construction by Mr. Vandrick Czar T. Corpu	Aurora East. Diffun, Quirino	2
160.	J And C Lumber and Hardware by Ms. Candelaria D. So	Plaridel, Santiago City, Isabela	1
161.	Christian Ian Construction Corporation by Mr. Angelito Trinidad	Soledad St., Rosa, Nueva Ecija	7
162.	Silver Dragon Hardware and Electrical Supply by Ms. Josephine Ganipan	Ugad, Cabagan, Isabela	2
163.	6J Construction Services by Mr. Honorio N. Sanchez, Jr.	Centro 1, San Guillermo, Isabela	5
164.	Allied S3 Hardware and Construction Supply by Mr. Bernard T. Bunagan	Calamagui 1 st , City of Ilagan, Isabela	1
165.	Gaba Concrete Product Manufacturing by Mr. Jomar P. Gaba	Centro, San Antonio, City of Ilagan, Isabela	1
166.	C.R. Domingo Construction and Power Development, Corp. by Mr. Rolando Y. Domingo	Brgy. 3, San Mateo, Isabela	6
167.	Gonzales Construction Supplies Trading by Mr. Reynold R. Gonzales	Zamora, Cabarroguis, Quirino	1
168.	Mamaril Gravel and Sand Trading by Ms. Lovelyn Mamaril	Aurora, Alicia, Isabela	6
169.	Cawelan Hardware by Ms. Darlina B. Olalan	Divisoria, Santiago City, Isabela	5
170.	Jkr Medina Gravel and Sand by Mr. Johnny Warren C. Medina	Concepcion, Luna, Isabela	4
171.	Chu San Construction and Supply by Honorio S. Chua III	Minante 1, Cauayan City, Isabela	7
172.	AVD Commercial Center by Mr. Aldrich Joseph U. Gomez	San Antonio, Delfin Albano, Isabela	6
173.	TJBC Builders by Mr. Teodoro M. De Jesus	Brgy. II, Jones, Isabela	4
174.	Ms. Marilyn Mata	Aggassian, City of Ilagan, Isabela	1
175.	Ms. Edilie A. Padilla	Mapalad, San Agustin, Isabela	4
176.	Rpds Gravel and Sand Trading by Ms. Perlita Blanca C. Delos Santos	San Bernardo, Cabagan, Isabela	3

177.	Arevalo Construction by Mr. Jason C. Arevalo	Castillo, Echague, Isabela	2
178.	Holy Trinity Agro Forestry Multi-Purpose Cooperative by Ms. Bernalyn Lopez	Rang-Ayan, City of Ilagan, Isabela	1
179.	Fj Hardware Gravel & Sand General Merchandise by Juan W. Albano	Ugad, Cabagan, Isabela	6
180.	Rocktown Construction Supply by Mr. Henry C. Costales, Jr.	Bugallon Proper, Ramon, Isabela	1
181.	Mr. Ronnel M. Butac	Nemmatan, San Agustin, Isabela	1
182.	Dela Cruz Quarry by Mr. Rofelin M. Dela Cruz	Virgoneza, San Agustin, Isabela	8
183.	Shekinah Hardware & Construction Supplies by Ms. Susan U. Manango	Masaya Centro, San Agustin, Isabela	2
184.	Ms. Ronalyn M. Telan	Minanga, San Mariano, Isabela	3
185.	Ms. Esperanza A. Jimenez	Zone 2, San Mariano, Isabela	1
186.	Yzk Builders by Ms. Ma. Loida C. Cruz	Minanga, San Mariano, Isabela	9
187.	Mr. Erwin R. Sumisim	Zone 2, San Mariano, Isabela	2
188.	Ms. Deborah Mae C. Pedro	Minanga, San Mariano, Isabela	4
189.	Mr. Gian Carlo M. Layugan	Zone 1, San Mariano, Isabela	7
190.	Go Eight Corporation by Ms. Maria Cristina Almalves	Zone 1, San Mariano, Isabela	9
191.	Jab Gravel, Sand and Iron Works by Mr. Jimmy A. Balayan	Calamagui 1 st , City of Ilagan, Isabela	5
192.	Alchiqui Enterprises by Ms. Chiqui A. Hernandez	Alinguigan 2 nd , City of Ilagan, Isabela	4
193.	Jcube8 Sand and Gravel Trading by Mr. Justito S. Jimenez, Jr.	Lanna, Tumauini, Isabela	5
194.	Mr. Noel R. Lacar	Lalog I, Luna, Isabela	1
195.	EA Concrete Products Manufacturing by Ms. Maricar L. Asuncion	Morado, City of Ilagan, Isabela	1
196.	Edwin Hardware and Concrete Products by Mr. Edwin Abalos	Bugallon Proper, Ramon, Isabela	1
197.	Carlo's Sand and Gravel Supply by Mr. Porfirio U. Gomez	Fugaru, Angadanan, Isabela	4
198.	Gacutan Construction, Inc. by Ms. Bethilda G. Wisco	Minante 1, Cauayan City, Isabela	4
199.	Harbor Master Construction Supply by Ms. Jennette G. Buraga	Alinguigan 3 rd , City of Ilagan, Isabela	9
200.	Barcon Construction and Supplies by Mr. Geoffrey T. Barrientos	Alibagu, City of Ilagan, Isabela	1
201.	Riches Jon Construction Supply by Mr. Jonathan D. Navalta	Munoz East, Roxas, Isabela	5

202.	Mc Cayaban Concrete Products by Ms. Milagrina C. Cayaban	Capirpiriwan, Cordon, Isabela	3
203.	Flores Construction by Ms. Romana S. Flores	Centro, Mallig, Isabela	10
204.	Mr. Randy M. Balisi	Baculud, City of Ilagan, Isabela	2
205.	Mardeb Construction & Development Corp. by Mr. Mario Dela Fuente	Magdalena, Cabatuan, Isabela	22
206.	Maryjane Gravel & Sand Trading by Ms. Maryjane M. Samus	Bangad, Santa Maria, Isabela	6
207.	Jhad's Hardware Trading by Mr. Jhonas D. Palitayan	Digumased, Dinapigue, Isabela	3
208.	Mr. Aldo Rey T. Vargas	Digumased, Dinapigue, Isabela	1
209.	Adriosula Hardware and Construction Supply by Mr. Florencio L. Adriosula	Centro 1, Mallig, Isabela	7
210.	Christian Hardware by Mr. Romeo P. Concepcion	Salinungan, San Mateo, Isabela	1
211.	Joemson Electrical & Hardware Supply by Mr. Gil Ang Francisco	Brgy. 1, San Mateo, Isabela	5
212.	Fragerr Construction by Ms. Edna G. Malayao	Poblacion, San Pablo, Isabela	7
213.	Mr. Joseph F. Lososo	Rosario, Santiago City	4
214.	Cayan Gravel and Sand Trading by Ms. Royce Feb V. Lungan	Dist. 1, Benito Soliven, Isabela	6
215.	Salvador's Hardware by Ms. Ruthlen U. Salvador	Cab. 7, City of Ilagan, Isabela	1
216.	Mr. Marizon T. Mendoza	Napaliong, Jones, Isabela	1
217.	Mr. Marlon C. Aguinaldo	Minuri, Jones, Isabela	3
218.	Adriano's Sand and Gravel Supply by Mr. Joemar N. Adriano	Brgy. 2, Jones, Isabela	4
219.	Paula Mae Buhong Construction by Mr. Romeo N. Buhong	Minuri, Jones, Isabela	3
220.	VB Manubay Construction by Ms. Veronica B. Manubay	Rizal, Santiago City	8
221.	CBU Nita's Construction Supply by Ms. Dutch Anne V. Uy	San Pedro, Tumauni, Isabela	8
222.	RCJ Castro Construction Supply by Ms. Joan V. Castro	Nuesa, Roxas, Isabela	12
223.	Mr. Roberto B. Asuncion	Balug, Tumauni, Isabela	2
224.	Vilpaz Trading by Mr. Ewald Rimo P. Domingo	Villapaz, Naguilan, Isabela	1
225.	Ms. Melda D. Oligario	Capo, City of Ilagan, Isabela	1
226.	Mr. Henry Allan R. Macarilay	Disimpit, Jones, Isabela	6
227.	Mr. Galicano D. Diaz, Jr.	Lapogan, Tumauni, Isabela	1

228.	Mr. Michael D. Azul	Aggassian, City of Ilagan, Isabela	1
229.	Ramos Merchandise by Ms. Jenny A. Ramos	Liwanag, Tumauini, Isabela	2
230.	Balbin Gravel and Sand Trading by Ms. Josephine C. Balbin	Lapogan, Tumauini, Isabela	5
231.	Redrocks Gravel and Sand by Mr. Carlofel M. Fontiveros	San Placido, Roxas, Isabela	6
232.	Ms. Chattie T. Miro	Poblacion, San Pablo, Isabela	4
233.	MAGG Trading by Mr. Mark Anthony C. Carabbacan	Soyung, Echague, Isabela	3
234.	Glenn Moore Angelo Caramancion Gravel and Sand by Mr. Glenn Moore Angelo E. Caramancion	Disimpit, Jones, Isabela	18
235.	Rael Hardware by Mr. Israel P. Uy	Brgy. 1, Jones, Isabela	1
236.	L & G Farm Services by Ms. Grace M. Castillo	Liwanag, Tumauini, Isabela	3
237.	Jonathan Uy Quarrying by Mr. Jonathan Uy	Lingaling, Tumauini, Isabela	5
238.	Acp Construction & Development by Mr. Allan C. Panganiban	Gucab, Echague, Isabela	4
239.	Quirino Primes Lumber, Hardware and General Merchandise by Ms. Conchita G. Uy	Gundaway, Cabarroguis, Quirino	3
240.	Gepilano Hardware and Agri Supply by Mr. Louie B. Gepilano	Andres Bonifacio, Diffun, Quirino	3
241.	M. Ariola's Sari-Sari Store by Ms. Magdalena A. Ariola	San Antonio, City of Ilagan, Isabela	1
242.	JAV Commercial by Mr. Jhomar L. Viernes	Lapaz, Saguday, Quirino	3
243.	Mr. Danilo S. Lotino	Usol, Jones, Isabela	3
244.	Juning Hollowblocks Manufacturing by Mr. Jomar Tadiwan	Centro San Antonio, City of Ilagan, Isabela	1
245.	Saveworks Hardware, Gravel, Sand & General Merchandise by Mr. Joselito S. Bautista	San Mateo, Tumauini, Isabela	7
246.	Gerra Construction Inc. by Ms. Jessie R. Racaza	Brgy. 1, San Mateo, Isabela	5
247.	Mr. Wilfredo S. Par, Jr.	Cabannungan 2 nd , City of Ilagan, Isabela	1
248.	Dragon Twelve Builders Construction by Mr. Jonathan L. Diaz	Sta. Victoria, City of Ilagan, Isabela	50
249.	Jercon Trade Construction Development Corp. by Mr. Jerry Galope	Dist. II, Cauayan City, Isabela	5

250.	Dencio Gravel & Sand Trading by Mr. Dennis Vincent M. Ferrer	Lingaling, Tumauni, Isabela	5
251.	Northeastern Construction by Mr. Hilarion A. Pararuan	Lullutan, City of Ilagan, Isabela	17
252.	Mr. Laurence B. Mariano	Brgy. 1, Jones, Isabela	1
253.	Mr. Jose Dudz G. Carreon Iii	San Fermin, Cauayan City, Isabela	3
254.	Mr. Joel C. Maximo	Minuri, Jones, Isabela	1
255.	Mr. Gil B. Eniva	Minuri, Jones, Isabela	1
256.	Mr. Allan R. Castillo	Minuri, Jones, Isabela	1
257.	Mr. Froilan A. Acido	Minuri, Jones, Isabela	1
258.	Mr. Jomar M. Cascayan	Minuri, Jones, Isabela	3
259.	Mr. Joshua N. Balloran	Minuri, Jones, Isabela	1
260.	Three Sixty Hardware by Ms. Marlyn B. Bautista	Furao, Gamu, Isabela	5
261.	ES Pua Construction by Mr. Eddie S. Pua	Bliss Village, City of Ilagan, Isabela	10
262.	Mr. Nelson Adriano V. Donato	Munoz West, Roxas, Isabela	1
263.	LC Talon Construction by Mr. Leonardo C. Talon	Sampaloc, Cabatuan, Isabela	8
264.	RM Hardware & Construction Supplies by Ms. Maureen A. Pastor	San Pedro, Mallig, Isabela	7
265.	Artisuela Gravel And Sand by Mr. Ricardo G. Artisuela	Lapogan, Tumauni, Isabela	4
266.	IJH Gravel and Sand by Mr. James P. Pua	San Pedro, Tumauni, Isabela	8
267.	EC Construction by Mr. Egbert M. Cabauatan	Casibarag Sur, Cabagan, Isabela	11
268.	Wendy Kim Gravel and Sand Hollowblock Maker by Mr. Ernando R. Lodivico	Mangcuram, City of Ilagan, Isabela	1
269.	Mr. Riczer A. Jacinto	San Juan, Aurora, Isabela	2
270.	Lorelei Buying Station by Ms. Lorelei S. Ranjo	Lullutan, City of Ilagan, Isabela	3
271.	Ms. Emily S. Santos	Guinatan, City of Ilagan, Isabela	2
272.	Providers Multipurpose Cooperative by Ms. Marie Dee B. Belagan	Magsaysay, Naguilian, Isabela	18
273.	RR Roofing Services by Ms. Ronalyn P. Malong	Antonino, Alicia, Isabela	5
274.	Ms. Myra A. Salas	Lullutan, City of Ilagan, Isabela	1
275.	Mr. Michael N. Coloma	Tangcul, City of Ilagan, Isabela	1
276.	Mr. Jonathan C. Cabrera	Zone 2, Sto. Domingo, Piat, Cagayan	3

277.	Casan Construction and Trading by Ms. Natalia D. Ocsan	Bacoar, Cavite	2
278.	Ms. Leticia T. Sebastian	Brgy. 1, Jones, Isabela	2
279.	R AN Construction and Supply by Mr. Romel N. An	Buenavista, Santiago City	6
280.	RM Mangabat Construction by Mr. Resty S. Mangabat	Masaya Sur, San Agustin, Isabela	1
281.	EM Pascual Lumber by Mr. Edison M. Pascual	Fugu, Jones, Isabela	7
282.	Ms. Arlene P. Chy	Linomot, Jones, Isabela	2
283.	Camberwell Construction and Supplies by Ms. Grace M. Rodriguez	Magsaysay, Naguilian, Isabela	12
284.	Monphil Diesel Filling Station by Mr. Raymundo G. Junio	Upi, Gamu, Isabela	5
285.	Mr. Kevin Michael A. Paciente	Villasis, Santiago City	2
286.	Precious AJ Marketing & General Merchandise by Mr. Albert S. Galiza	Culalabat, Cauayan City, Isabela	7
287.	AGT Builders and Construction Supply by Mr. Allan Ace G. Tacusalme	Sillawit, Cauayan City, Isabela	7
288.	D.M. Diego Architectural Design and Consultancy by Mr. Darwin M. Diego	Dubinan East, Santiago City	1
289.	Mr. Rody A. Bulusan	Minuri, Jones, Isabela	3
290.	Reggs Builders by Mr. Reginito M. Lopez	Quezon, San Isidro, Isabela	10
291.	Roquero Trucking Services by Mr. Rolando O. Roquero	San Isidro, Cainta, Rizal	4
292.	Mr. John T. Callueng	Andres Bonifacio, Diffun, Quirino	3
293.	Mr. Paul Jervis M. Sy	Magsaysay, Cordon, Isabela	2
294.	Mr. Antonio R. Carabbacan	San Andres, Santiago City, Isabela	2
295.	Bmj Construction by Mr. Joyce T. Bau	Cubag, Cabagan, Isabela	1
296.	KC General Merchandise by Mr. Marshal Kevin L. Cabaero	Centro 2, San Guillermo, Isabela	2
297.	Mr. Melvin C. Acacio	Lullutan, City of Ilagan, Isabela	1
298.	U-Need Gas by Mr. Noel T. Lim	Sampaloc, Cabatuan, Isabela	3
299.	BDA Jr Construction by Mr. Betty D. Abuan, Jr.	Tagaran, Cauayan City, Isabela	5
300.	Mr. Jessie T. Bangloy	Nemmatan, San Agustin, Isabela	4
301.	Gelogica Enterprises by Mr. Nelson P. Chu	Brgy. 2, Jones, Isabela	2

302.	Kernel General Merchandise by Ms. Rowena M. Dela Pena	Rizal, Alicia, Isabela	4
303.	Prime Master Const. and Dev't. Corp. by Mr. Jayson M. Loyon	Ajat, Iguig, Cagayan	5
304.	R.S.K.M. Construction Services by Mr. Richard Stephensun L. Almiron	Camaal, Quirino, Isabela	11
305.	GMG Gas Station by Mr. Gerald D. Gannod	Burgos, Alicia, Isabela	2
306.	Kristopher Gravel and Sand by Mr. Kristopher E. Maltu	Cab. 8, City of Ilagan, Isabela	2
307.	ALGO Construction and Power Development, Inc. by Mr. Allan John Gomez	Diamantina, Cabatuan, Isabela	12
308.	Olivete Realty Development by Mr. Rogelio F. Olivete	San Fermin, Cauayan City, Isabela	4
309.	JLG Construction by Mr. Joel L. Garcia	Garita, Cabagan, Isabela	3
310.	D Twins Hardware and General Merchandise by Ms. Rizzel Llamelo Quintinita	San Antonio, Burgos, Isabela	2
311.	Jo Ward Juan Enterprises, Inc. by Mr. Eduard D. Juan	Luna, Quirino, Isabela	7
312.	FM Orani & Son's Development Corporation by Mr. Feliciano C. Orani, Sr.	Arellano, Quezon, Isabela	4
313.	CB Garay Philwide Builders by Mr. Ceferino B. Garay, Jr.	Maria Clara, Diffun, Quirino	5
314.	JBR Grain Trade Inc. by Mr. Ronald A. Respicio	Centro 2, San Guillermo, Isabela	2
315.	NTL Builders and Developer by Ms. Emily M. Lim	Dipintin, Maddela, Quirino	8
316.	Colby Construction by Ms. Conchita D. Colbongan	Batal, Santiago City	6
317.	Dalcon Construction by Mr. Dhemie Leo S. Condaya	Villa Sur, Maddela, Quirino	3
318.	Jay Arcie Construction and Supply by Mr. Jay Arcie S. Co	Nabbuan, Santiago City	11
319.	Ma Tesoro Construction by Mr. Michael A. Tesoro	Rizal, Santiago City	24
320.	G.C. Martin Construction Supplies by Mr. Gerald C. Martin	Ugac Sur, Tuguegarao City, Cagayan	3
321.	RJG Hardware by Mr. Raffy John O. Gomez	Marana 3 rd , City of Ilagan, Isabela	3
322.	JFO Construction by Mr. Juanito F. Oloan	Brgy. Upi, Gamu, Isabela	2
323.	GA Flores Construction, Inc. by Mr. Gamaliel A. Flores	12 Maya St. Dizon Subd., Baguio City, Benguet	4

324.	JAO Sand and Gravel Quarrying by Ms. Jillian Alyssa R. Ordenez	Labinab Grande, Reina Mercedes, Isabela	5
325.	Asian Acropus Builders by Mr. Ralph P. Abella	Calao East, Santiago City	2
326.	Robert P. Guzman Construction by Mr. Robert P. Guzman	Bagay, Tuguegarao City, Cagayan	7
327.	Jan Rich Marketing by Mr. Ardiano A. Olavidez	Surcoc, Naguilian, Isabela	2
328.	Ms. Imelda A. Magno	Gayong, Cordon, Isabela	1
329.	Riodelmay Store by Mr. Hilarion Rodel S. Cabansag	Sta. Isabel Sur, City of Ilagan, Isabela	1
330.	Rskc Construction by Mr. Raymund T. Cababa	Centro, Sto. Tomas, Isabela	6
331.	Idelmundo A. Castaneda Construction & Supply by Mr. Idelmundo A. Castaneda	Andres Bonifacio, Diffun, Quirino	5
332.	AC & C Builders & Enterprises by Mr. Alvin D. Uy	District 1, Cauayan City, Isabela	4
333.	Benailda Gravel and Sand Trading by Ms. Benailda C. Genovia	District II, Gamu, Isabela	5
334.	JB Enterprises by Mr. Jerald Raymond Mari M. Bigornia	Mansibang, Naguilian, Isabela	11
335.	KL 21 Civil Engineering Construction by Mr. Jesciymar L. Ubina	Nangalisan, Solana, Cagayan	4
336.	Agriware Enterprises by Mr. Joeben G. Gicole	Aggassian, City of Ilagan, Isabela	1
337.	Mr. Reynante A. Garcia	Rang-Ayan, City of Ilagan, Isabela	1
338.	JMD-68 Builders by Mr. Diosdado O. Eleria	Gundaway, Cabarroguis, Quirino	2
339.	Salucag Construction Supply by Ms. Sanita V. Andres	San Andres, Aurora, Isabela	2
340.	Mr. Danny E. Viernes	La Paz, Saguday, Quirino	1
341.	AHB Construction & Supply by Mr. Narciso L. Bilayon, Jr.	Capirpiriwan, Cordon, Isabela	5
342.	Mr. Pelagio L. Perico	Calaocan, Santiago City, Isabela	1
343.	Mr. Vicente A. Salomon, Jr.	Malvar, Santiago City	1
344.	Acuario Construction & Dev't. Inc. by Mr. Edgar B. Gomultim	Rodolino Building, Cubao, Quezon City	4
345.	Ms. Janette B. Lagasca	Dibuluan, Jones, Isabela	1
346.	Bravo Construction and Engineering Services by Mr. Vilmer B. Bravo	Nagbukel, San Isidro, Isabela	5
347.	Ms. Editha V. Miguel	Dibuluan, Jones, Isabela	1
348.	Mr. Jose Rafael V. Tumaliuan	Centro, San Antonio, City of Ilagan, Isabela	1

349.	Agor's Gravel and Sand and Hallow Blocks Making by Ms. Clarita E. Agor	Calamagui 2 nd , City of Ilagan, Isabela	5
350.	Imred Asia Construction and Supply Opc by Mr. Dominic Benedict T. Almoradie	Magsaysay, Cordon, Isabela	1
351.	OUA Construction by Mr. Orlando U. Agcaoili	San Fermin, Cauayan City, Isabela	4
352.	C U Sand and Gravel Quarrying by Mr. Reynaldo A. Cabacungan	Old Centro, San Mateo, Isabela	6
353.	Sta. Clara International Corporation by Mr. Nicandro G. Linao	Highway 54 Wack Wack, Mandaluyong City	8
354.	Four 'R' Construction by Mr. Ruben U. Valenzuela	Palagao Norte, Gattaran, Cagayan	6
355.	MC Geometric Proportions Inc. by Mr. Joseph Michael D. Lagman	Malvar, Santiago City	4
356.	VHT Cagayan Builders Corporation by Mr. Henry M. De Leon, Jr.	Centro Southwest, Solana, Cagayan	6
357.	RG Construction by Mr. Robert C. Galla	Antagan 1st, Tumauni, Isabela	3
358.	JCF Hardware by Ms. Jovelyn C. Figarola	San Antonio, City of Ilagan, Isabela	4
359.	Gadav Builders by Mr. Denmark C. Cos-Agon	Bulinao, Tabuk City, Kalinga	2
360.	Eastern Sunrays Gravel and Sand Trading by Mr. Jerome C. Curameng	Bacnor East, Burgos, Isabela	2

C. Field Monitoring of Quarry Areas

1. Regular Field Inspection and Monitoring

This activity aligns with the implementation of Provincial Ordinance No. 05, series of 2014, serving to effectively regulate and monitor extraction activities within quarry areas. The primary goal is to ensure the implementation of necessary environmental measures. This includes conducting random inspections of vehicles involves in hauling and transporting sand and gravel materials. The inspections focus on verifying compliance with extraction measures, such as adhering for the policy of extracting from the main riverbed, avoiding screening of materials in the main riverbed, and confirming pre-payment of quarry taxes and fees.

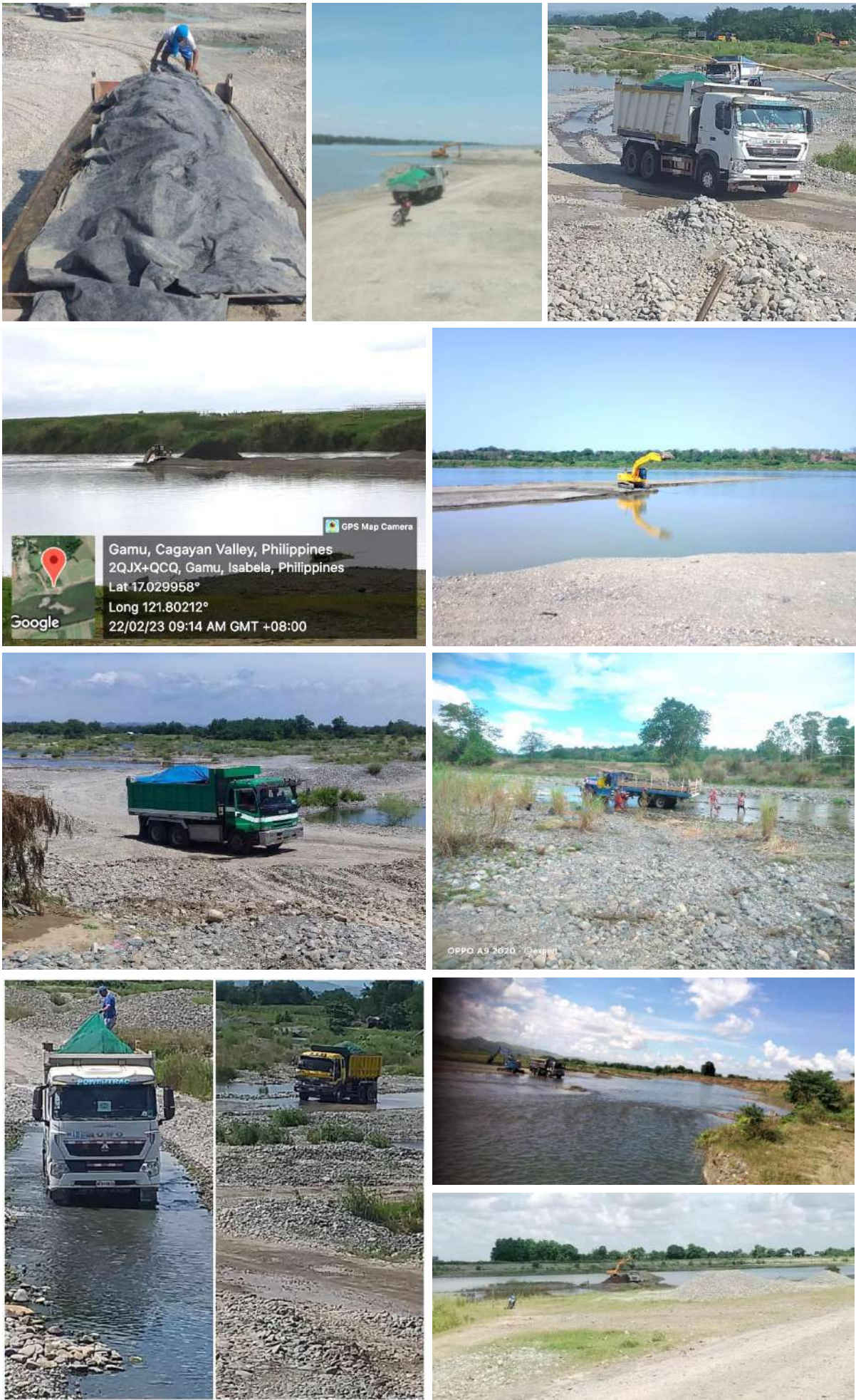
Additionally, this activity involves issuing, notices to haulers/operators who have consumed pre-payments and supervising ISEP-TF Operative personnel assigned to the quarry areas.



Images captured during the site inspection of quarry areas along Chico, River at Barangay Rana-avan, Mallia, Isabela.

All collection of photos taken while monitoring extraction activities by ENRO Personnel and ISEP-TF Operative members in various quarry areas.







These images capture various monitoring activities in Dinapigue, showcasing the commitment to overseeing and regulating environmental practices with the province. These photos serve as valuable documentation of the diligence and efforts invested in enduring compliance with environmental standards.



Photographs taken during the issuance of notices to haulers regarding their extraction activities, depicting their monitored aggregates without pre-payments.



Photos taken during the site inspection of quarry areas in San Agustin, Isabela.

2. Monitoring of Extraction Activities

In the realm of daily field monitoring, **thirty-one (31)** ISEP-TF Operative members were deployed to conduct continuous surveillance of extraction activities across various quarry areas within the province. These operative members submitted daily extraction monitoring reports, coupled with delivery receipts, on a weekly basis to the office. These reports served as the foundational basis for collection of taxes and other related fees by the Provincial Treasurer’s Office.

In the year 2023, a total of 619,452.00 cubic meters of sand and gravel, and other quarry resources were extracted from sixty (60) quarry areas, quarry areas exhibiting active extraction activities. The breakdown comprises 22,556.00 cubic meters of mixed materials, Ordinary Earth, 547,338.00 cubic meters, Mixed, 3,358.00 cubic meters G1/S1 and 46,200.00 cubic meters Boulders; and with gross value amounting to Php 22,525,620.00 fees and taxes.

Table 16. 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	2,060.00	21,902.00	2,313.00	8,016.00	34,291.00
February	436.00	49,087.00	22.00	5,734.00	55,279.00
March	1,960.00	66,185.00	-	14,935.00	83,080.00
April	3,880.00	60,529.00	130.00	2,513.00	67,052.00
May	6,767.00	70,928.00	740.00	1,652.00	80,087.00
June	2,2380.00	51,842.00	-	2,340.00	56,562.00
July	2,050.00	33,440.00	-	2,701.00	38,191.00

August	900.00	43,089.00	12.00	2,543.00	46,544.00
September	1,003.00	42,128.00	129.00	1,775.00	45,035.00
October	700.00	42,430.00	4.00	923.00	44,057.00
November	420.00	38,023.00	8.00	2,078.00	40,529.00
December	-	27,755.00	-	990.00	28,745.00

3. Investigation and Settlement of Quarry and Mining Related Complaints

On February 24, 2023, responding to a letter complaint requesting assistance concerning an alleged earth-moving activity in Barangay Abut, Quezon, Isabela, personnel from this office participated in the dialogue and investigation of the matter.

The area is situated within a boundary dispute between Quezon, Isabela and Tabuk City, Kalinga. Despite the issue being previously brought to DENR and a meeting attended by DENR-CENRO Roxas, DENR-CENRO Tabuk, PNP, and the ISFP CSC Holders, the operator persisted in the extraction activity, prompting a request for assistance from the Provincial Government through ENRO.

A joint inspection was carried out by representatives from Provincial Government of Kalinga, LGU Tabuk, EMB-CAR, MGB-CAR, ISF-CSC holders, and Provincial Government of Isabela through this office. The inspection revealed that approximately 200 square meters of the hill had been scraped, with backhoe equipment and an elf truck present on-site. The area falls within the ISF area, and it was alleged to be owned by Lourdes Sanchez, a Barangay Kagawad of Barangay Malalao, Tabuk, Kalinga, with the equipment owned by Edgar Umengan. Verification showed that no Accreditation Permit was issued to the operator.

The complainant asserted that the area is within their ISF area and is being destroyed by unidentified individuals. To address this, it was agreed that, given the contested boundaries and the devolved function of quarry operations under the Provincial Government, separate stoppage orders for the earth-moving activity would be issued by the Provincial Government of Kalinga and Isabela through their respective ENROs. This step was taken to ensure the cessation of the illegal activity. As the area is within a forest zone and covered by a tenurial instrument ISF-CSC, DENR was also requested to take appropriate action. Additionally, the representative from EMB-CAR recommended issuing a Notice of Violation to the alleged operator. While advising against contesting boundary disputes, the parties involved were encouraged to exercise their rights as holders of the tenurial instrument.



Some photos taken during the site inspection and discussions relative to the earth-moving activity within an ISFP area at Barangay Abut, Quezon, Isabela

August 01, 2023 - In response to a letter forwarded to this Office regarding alleged illegal quarrying by Mr. Jaime Guillermo in Barangay Simimbaan, Roxas, Isabela, our personnel conducted an investigation. The findings and observations are summarized as follows:

- The activity in question was identified as treasure hunting, not quarrying based on our inspection and documents presented by Mr. Guillermo.
- Due to non-compliance with treasure hunting requirements, Mr. Guillermo opted to construct a deep well, causing concerns about water supply disruption among complainants.
- As this falls outside our jurisdiction, advice was provided to resolve the matter at the Barangay Level, with the suggestion to escalate unsettled issues to relevant agencies if necessary.

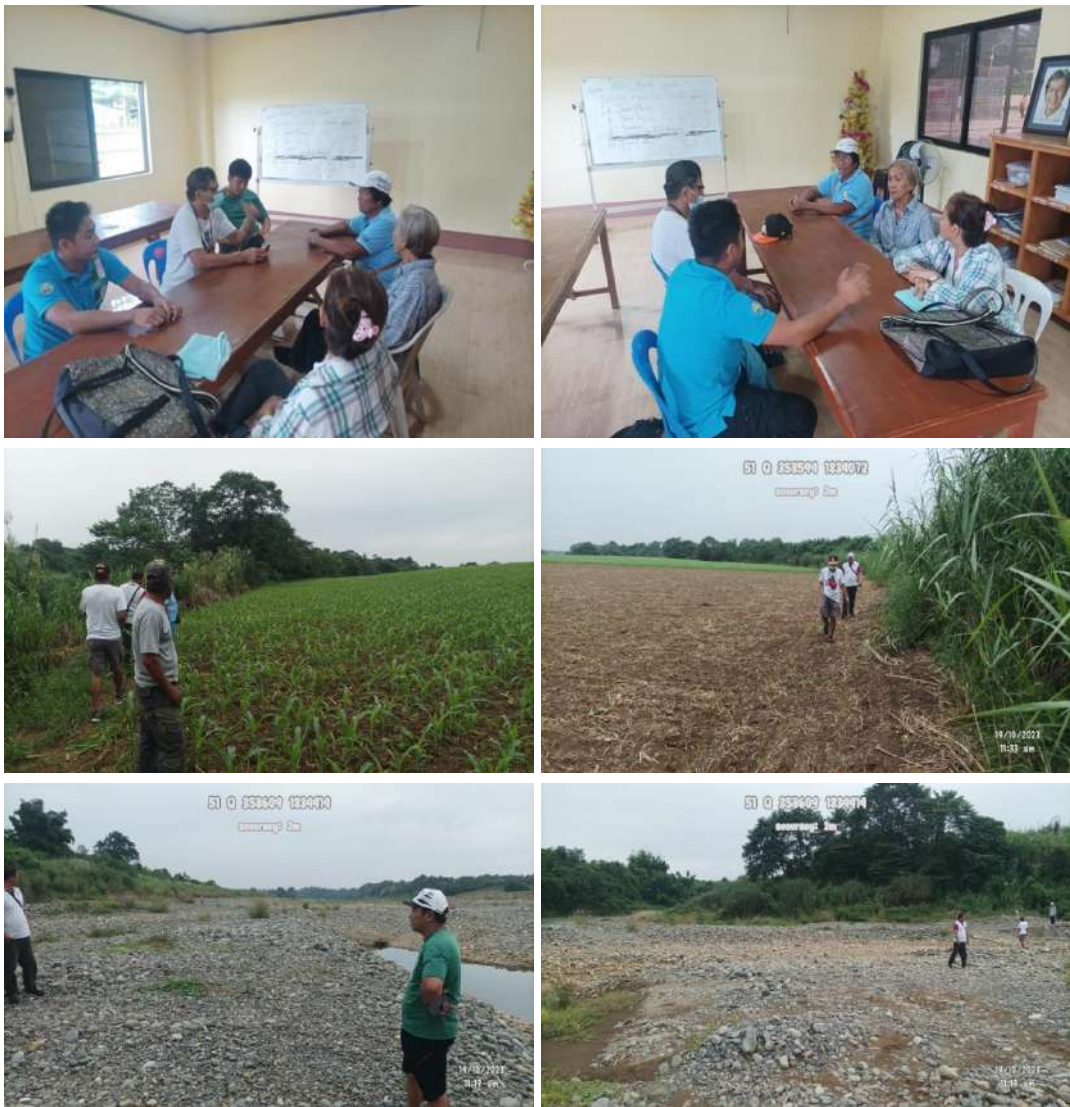
- Furthermore, it was emphasized that Mr. Guillermo must obtain the required permits from concerned agencies before conducting any future activities to prevent misinformation and complaints.



October 19, 2023- Responding to a letter requesting an actual survey of an area in Barangay Payac, Jones, Isabela alleging quarry operations, our personnel visited the area and coordinated with Ms. Susan Rosario. The following actions were undertaken:

- Coordinated with Ms. Rosario and the barangay, proceeding to the disputed area together.
- Conducted an ocular inspection and implemented photo geo-tagging.
- Observations revealed no evidence of extraction activities within the contested area. Extraction was identified outside the claimed area, which is currently cultivated with corn and other agricultural plants.
- Ms. Rosario explained that these crops were planted by illegal settlers, claiming ownership and seeking compensation.

Upon plotting the geo-tagged photos, it was confirmed that the existing extraction activity is situated outside the claimed area. Consequently, there is no basis for royalty collection. Moreover, the request to collect payment from the informal settlers and recognize them as landowners is beyond the jurisdiction of the ENR Office to decide.



Some photos taken during the conduct of site inspection at Barangay Payac, Jones, Isabela.

D. Other Related Activities

1. Re-Assessment and site inspection of quarry areas in Cabatuan, Isabela

In compliance with Executive Order No. 01, series of 2023, issued by the Governor, declaring a moratorium on quarry operations in the Local Government Unit of Cabatuan with the Provincial Government of Isabela taking over existing quarry operations, and ordering the immediate rehabilitation and desilting of the area, this office conducted a re-assessment and site inspection along Magat River within the municipality of Cabatuan on February 21-22, 2023.

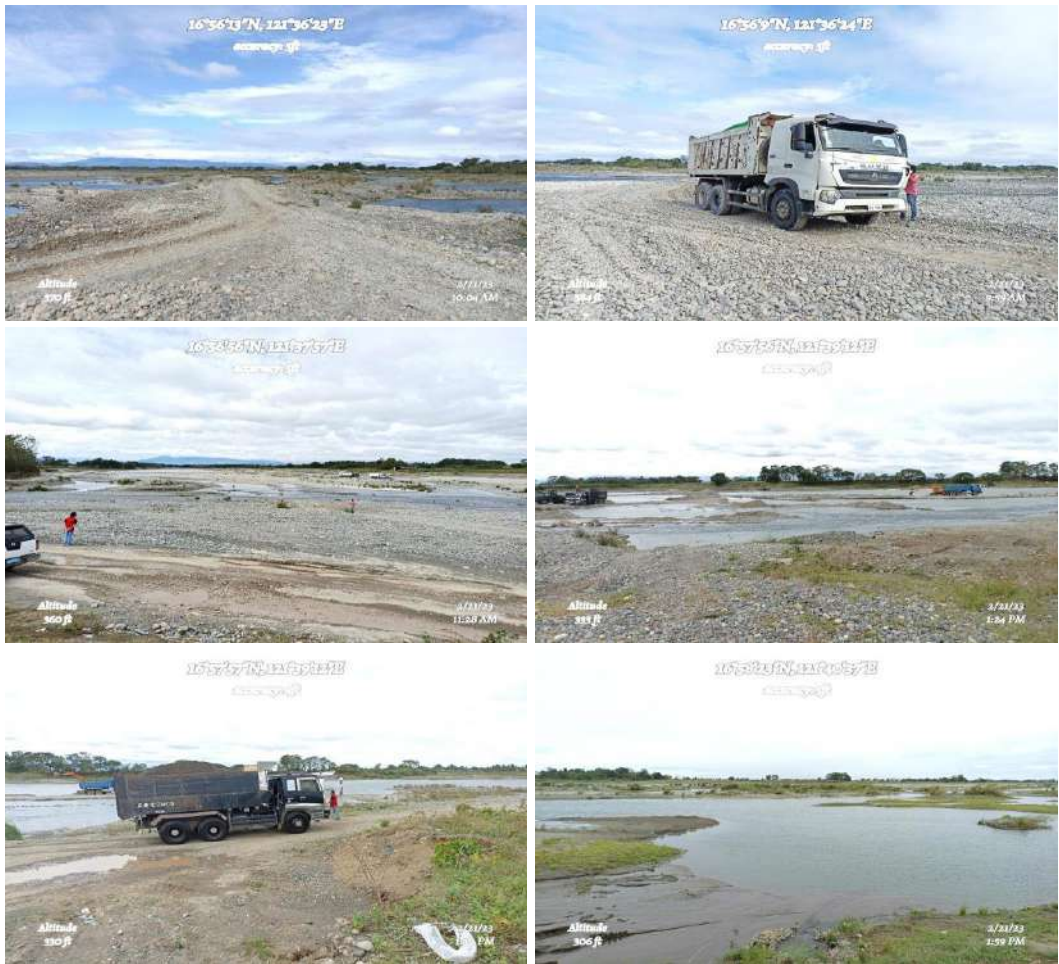
Findings, observations, and actions taken:

- Presence of abandoned scattered extraction pits, mostly at Barangay Rang-ay, contributing to general build-up deposits of sand and gravel in the river.
- Various crossroads leading to extraction areas, causing river way blockage.

- As observed, illegal extraction at Barangay Del Pilar was immediately ordered to stop.

Recommendations for rehabilitation and/or future operation:

- Immediate covering of abandoned extraction pits in Rang-ay.
- Extraction of build-up deposits of sand and gravel.
- Establishment of a common road to extraction sites.
- No screening of materials in the riverbed.
- LGU Cabatuan and concerned barangays to assign monitoring personnel for overseeing extraction activities and implementing the Executive Order.



Photos taken in the conduct of re-assessment of and site inspection of quarry areas along Magat, River at Cabatuan, Isabela.

2. Attendance to Meetings as Member of Governing Bodies Related to Mineral Resources Management

As a member to the various governing bodies related to mineral resources management, the Provincial Government of Isabela through this Office, participated in following:

Table 17. List of Attended Meetings as Member of the Governing Board Related to Mineral Resources Management

Date	
February 8, 2023	Attended the 4th Quarter Mine Rehabilitation Fund Committee (MRFC) of Dinapigue Mining Corporation (DMC), at Casa Jardin, Patrol RD, Santiago City, where the company presented findings and observations from the 2022 4th quarter monitoring by the Multi-Partite Monitoring Team.
March 14-16, 2023	Attended the 2023 1st Quarter monitoring of the Multi-Partite Monitoring Team (MMT) of Dinapigue Mining Corporation (DMC).
April 20-22, 2023	Participated in meeting of the Multi-Partite Monitoring Team (MMT) of Dinapigue Mining Corporation (DMC) focused on finalizing the 2023 1st Quarter MMT report, held at Zen Hotel, Santiago City.
August 3, 2023	Attended the 3rd Quarter Regional Mine Rehabilitation Fund Committee (MRFC) meeting held at Zen Hotel, Santiago City.
August 22-26, 2023	Participated in the 2023 3rd Quarter monitoring of the Multi-Partite Monitoring Team (MMT) of Dinapigue Mining Corporation (DMC).

3. Attendance/Participation in Meetings, Dialogues, and Requests for Technical Assistance Related to Mineral Resources Management

February 17, 2023 – The ENR Officer and personnel attended a meeting regarding quarry concerns for the TRMP of the National Irrigation Administration. This meeting included representative from DENR-MGB R02, DENR-EMB R02, DENR R02, DENR-CENRO Cabagan, and LGU Tumauni. The aim was to discuss the process for obtaining permits to extract aggregates for the project’s construction. The payment sought assistance from concerned agencies to secure the necessary quarry permits.



Some photos taken during TRMP Meeting held at the NIA Office, Tumauni, Isabela.

March 2, 2023 – Personnel attended a consultation meeting regarding the quarrying concern of the National Irrigation Administration in its Tumauni River Multipurpose Project (TRMP). An Expanded Execom Meeting was convened by the Regional Executive Director of DENR R02, to clarify specific matters relative to requirements and the processes for NIA, the project implementer, to proceed with the application for a quarry permit.



Photos taken during the Expanded Execom Meeting re Tumauni River Multipurpose Project (TRMP) at the Municipal Hall, Tumauni, Isabela

May 10-12, 2023 - In response to an invitation from Mines and Geosciences Bureau (MGB) R-02, personnel from this Office joined the inspection, verification, assessment, and inventory of illegal small-scale mining activities in the Municipality of Cordon, Isabela. The results confirmed the presence of 24 ball mills in Barangays San Luis, Caquilingan, Anonang, Camarao and Dallao, Cordon, with five (5) operating during the inspection, indicating illegal small-scale mining.





Some of the photos taken during conduct of inspection, verification and assessment on the presence of small-scale mining activities at Cordon, Isabela on May 10-12, 2023.

May 24, 2023 - As a follow-up to the May 10-11 activity led by MGB R02, personnel of this office participated in the issuance of a Cease-and-Desist Order to operators of ball mills. A meeting with LGU representatives prior to the activity resulted in the deferral of the issuance as requested by the LGU.





Some of the photos taken during the meeting with the LGU prior to the supposed issuance of Cease-and-Desist Order at Cordon, Isabela on May 24, 2023.

June 15-17, 2023 – In continuation of addressing illegal small-scale mining in Cordon, Isabela, personnel of this office assisted MGB-R02 in the re-issuance of Cease-and-Desist Orders to identified and assessed illegal small-scale miners. The team, along with representative of DENR-CENRO San Isidro, LGU Cordon, and PNP Cordon, padlocked a total of 24 ball mills and manholes in Barangays Caquilingan, Anonang, Camarao and Dallao.



During the issuance of Cease-and-Desist Orders to illegal small-scale miners in Barangays Caquilingan, Anonang, Camarao and Dallao, Cordon, Isabela, our personnel documented the proceedings with several photos.





These images capture the padlocking of ball mills and manholes, as well as the careful securing of the areas with caution tape.

June 27, 2023 - Personnel of this Office under the Mineral Resources Management Division attended the Stakeholders' Forum entitled: "Green and Sustainable: A Forum on Responsible Mining" held at Casa Jardin, Santiago City on June 27, 2023. The activity was spearheaded by the Mines and Geo-sciences Bureau (MGB) Region 2 and attended by various sector from LGU's, NGA's, media practitioner, academe, environmental groups, religious sector, mining contractors, permit holders/permittees and other stakeholders. Topics presented include Geohazards, EO 130 and its IRR, Biodiversity Conservation and Protection in Mining Operation, Taxes on Minerals, and BSP's Gold Buying Program. Representatives from the 4 Mining Companies operating in Region 02 also shared their best practices on Promoting Mining to Anti-Miners, RA 9003, Community Development and Sustainable Mine Rehabilitation Practices.

Some of the photos taken during the “Green and Sustainable: A Forum on Responsible Mining” held on June 27, 2023 at Casa Jardin, Santiago City



July 13, 2023 - In response to letter invitation, personnel of this Office attended the One-Day Capacity Building Seminar for Small-scale Miners held at Barangay Hall of Barangay Caquilingan, Cordon, Isabela.

Facilitated by MGB R02 personnel, the activity was also attended by the members of Caquilingan Miners Association, LGU Cordon, and Barangay Officials of Caquilingan. Presentations were on the requirements and processess in applying for Minahang Bayan, Small-scale Mining Contract and Mineral Processing Plan. Clarifications were also made on the identified mineralized area in Barangay Caquilingan which is inside the Exploration Permit of Cordillera Exploration Co., Inc. (CExCI). The small-scale miners were given advice that they request for consent from the company if they opt to apply the identified area within their barangay as Minahang Bayan.





ILAGAN-DIVILACAN ROAD REHABILITATION AND IMPROVEMENT PROJECT (IDRRIP)

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

I. Monitoring and Documentation of IDRRIP Reforestation Areas

Ongoing monitoring and documentation of IDRRIP reforestation projects are actively carried out by technical personnel and ISEP-TF operatives from this office. As of 2023, the survival rate of the planted seedlings remains high, attributed to the effective maintenance activities conducted by the contractor.



II. Implementation of the Reforestation Areas

The ongoing implementation of the Ilagan-Divilacan Road Rehabilitation Project component is being carried out by the winning contractor, RNSFMPC. In 2023, maintenance and protection activities for the second year were conducted across various reforestation areas. Specific activities included ring weeding, cultivation, replanting, watering and fertilizer application.

The table below outlines the accomplishments per reforestation project areas, as observed during inspection activities.

Table 18. Accomplishment per Reforestation Project Area

No.	Reforestation Project	Location	Observations/Remarks
1.	100-hectare Coconut Plantation Project	Forest Areas @ Villa Imelda, City of Ilagan	<ul style="list-style-type: none"> High survival rate noted. Increased height of coconut seedlings compared to the previous year. Successful completion of year 2 maintenance activities by the contractor.
2.	340-hectare Reforestation Project	Forest Areas @ Villa Imelda, City of Ilagan	<ul style="list-style-type: none"> High survival rate observed. Significant increase in seedling height. Ongoing year 2 maintenance activities, scheduled for completion in March 2024.
3.	460-hectare Agro-Reforestation Project	Forest Areas @ Villa Imelda, City of Ilagan	<ul style="list-style-type: none"> High survival rate noted. Significant increase in seedling height. Ongoing year 2 maintenance activities, scheduled for completion in March 2024.
4.	50-hectare IDR Roadside Reforestation Project	Ilagan-Divilacan Roadside, Sindun Bayabo, City of Ilagan	<ul style="list-style-type: none"> High survival rate noted. Significant increase in seedling height. Ongoing year 2 maintenance activities, scheduled for completion in March 2024.
5.	250-hectare RTA-1 Million Tree in 1 Day Reforestation Project	Disipun (km. 14), Lagis (km. 17), Trailer (km.21), Sindun Bayabo, City of Ilagan	<ul style="list-style-type: none"> High survival rate observed.



			<ul style="list-style-type: none">• Significant increase in seedling height.• Ongoing year 2 maintenance activities, scheduled for completion in March 2024.
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Observing the work accomplished by the contractor, the implementation of the IDR Reforestation Projects proceeded smoothly, adhering to the approved comprehensive development plans.

Maintenance Activities documentations:

















INTERVENING AND OTHER RELATED ACTIVITIES

OTHER RELATED ACTIVITIES

I. Oyster and Green Mussel Project

The establishment of oyster and green mussel farms in the coastal municipalities of Divilacan and Palanan, Isabela is continuously being implemented. The project is one of the interventions of the province to promote shellfish industry in Isabela and provides benefits to the fisherfolks and residents of coastal municipalities having sustainable culture farming in addition to the existing seasonal fishing.



The pre-establishment activities of the project started in 2022 wherein initial activities were undertaken such as coordination with MLGUs, purchase of materials, IEC and others. For 2023, the following were accomplished for the project, to wit:

- Thirty (30) oyster rafts were established at three project sites (10rafts/project site) at Brgys. Dimasalansan and Bicobian, Divilacan and Brgy. Maligaya, Palanan, Isabela.
- 12,000 spat collectors and 200 oyster breeders were distributed and placed in the oyster rafts.
- Increased the knowledge of fisherfolks/participants of Divilacan and Palanan, Isabela on the oyster culture especially on raft construction, proper placing of oyster breeders and spat collectors to the rafts as well as its maintenance and care.
- Water testing at Brgy. Maligaya, Palanan project site showed relatively lower values as compared to the results taken from Divilacan. Nonetheless, the project site is still suitable to oyster culture however, green mussel culture may not be suitable.
- Bamboo poles for green mussel were also established at Brgy. Dimasalansan, Divilacan, Isabela and an initial of 25,500 spats were provided by UP Visayas as donation for the trial seeding of green mussel in the province.
- Two laborers were hired to conduct maintenance and monitoring of the project from July to December 2023. This is to ensure that the established rafts and poles are maintained and oyster and green mussel spats are not harvested by some individuals.

Based on the reports of the hired laborers in coordination with Municipal Environment and Natural Resources Office of Divilacan and Palanan, there were observed growth in the oysters and additional oyster spats were observed in the empty spat collectors. It was also observed that the growth of the oyster spats were minimal. Lastly, there was no reported damage incurred in the established oyster rafts since regular maintenance activities are conducted.

For the green mussel, the initial 25,500 spats were transported from Iloilo to Divilacan, Isabela via air transport. However, due to the transport delays that happened beyond our control, around 80% of the donated spats did not survive upon reaching the green mussel site at Brgy. Dimasalansan, Divilacan. The remaining 20% were placed in the established green mussel farm. As of December, there were only few green mussel spats observed in the area with estimate of around 200 spats.

The Provincial Government of Isabela, in collaboration with BFAR, plans to conduct an in-depth assessment of the Oyster and Green Mussel Project in 2024. This evaluation aims to determine aims to determine the project’s feasibility to commercial purposes, considering factors such as growth rate and increased spats. The plan also includes augmenting green mussel spats in subsequent years based on the insights gained from the initial trial. Oysters and mussels are recognized for their nutritional benefits and versatile applications, including uses in animal feeds, fertilizers, pharmaceuticals, concrete products, and various novelty items.



II. Accomplishment Report on the 2023 Implementation of Risk Resiliency Program- thru Cash for Work (RRP-CFW)

The Province of Isabela, along with its City and Municipal Local Government Units, achieved a 100 percent accomplished in the 2023 Risk Resiliency Program through Cash-for-Work (RRP-CFW). The program focused on environmental conservation, rehabilitation and food security interventions. A total of 15,655 beneficiaries were paid, amounting to Php 58,706,250.00. major projects included planting 173,155 assorted forest and fruit-bearing tree seedlings, as well as 73,560 vegetable seedlings. Despite challenges in coordination and documentations, the implementation was successful. Recommendations include ongoing maintenance and monitoring of planted areas for seedling survivability.

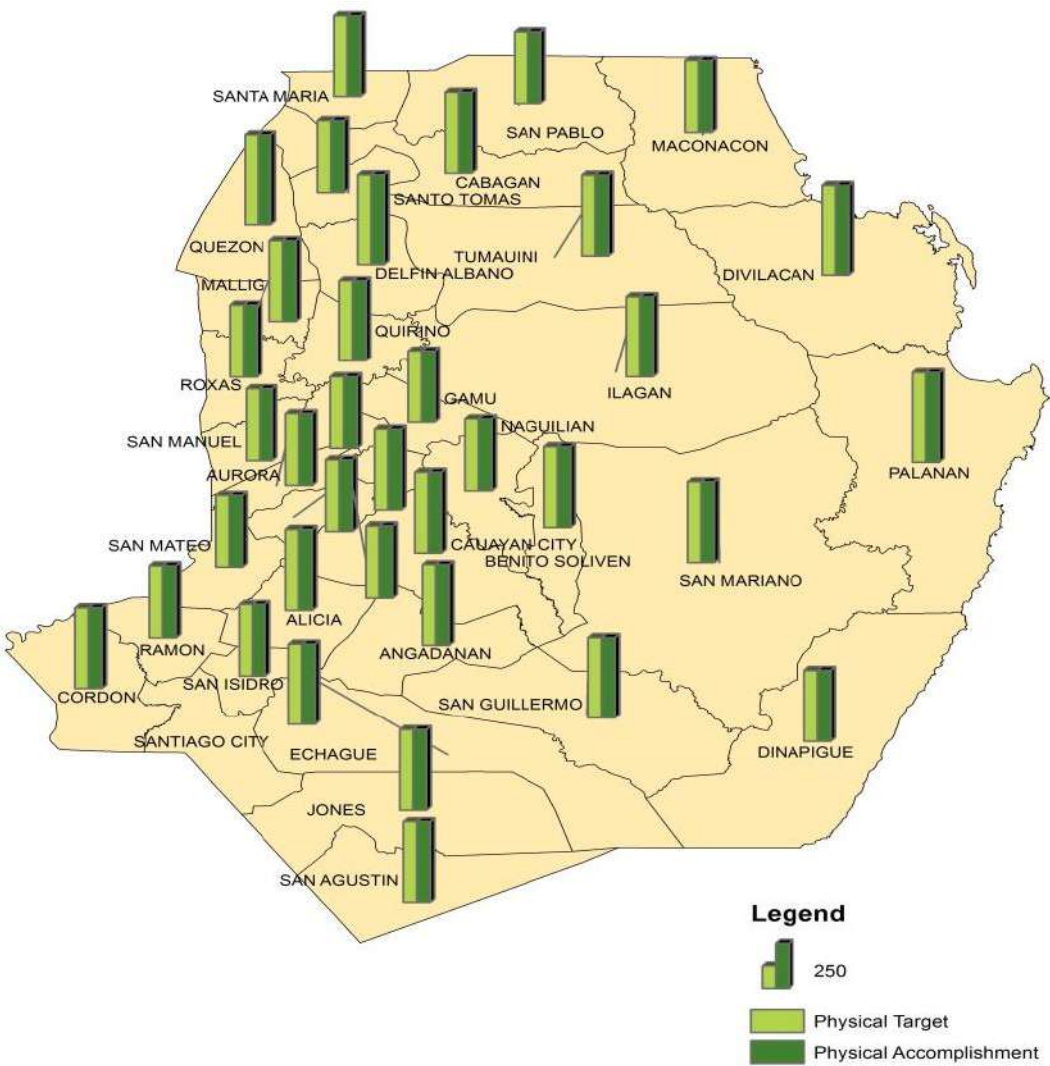


Table 19. Projects implemented for each LGUs

No.	City/ Municipality	Project	No. of beneficiaries allocated	Remarks
1	ALICIA	Tree planting	450	
2	ANGADANAN	Tree planting	450	
3	AURORA	Tree planting and communal gardening	400	
4	BENITO SOLIVEN	Tree planting	450	
5	BURGOS	Tree planting and communal gardening	400	PGI Counterpart – 408 assorted forest tree & 373 fruit-tree seedlings
6	CABAGAN	Tree planting	450	PGI Counterpart – 1,401 assorted forest tree & 530 fruit-tree seedlings
7	CABATUAN	Communal Gardening	400	
8	CAUAYAN CITY	Tree planting	450	
9	CORDON	Tree planting and communal gardening	450	PGI Counterpart – 1,985 assorted forest tree & 314 fruit-tree seedlings
10	DELFIN ALBANO	Tree planting	500	PGI Counterpart – 1,985 assorted forest tree & 314 fruit-tree seedlings
11	DINAPIGUE	Tree planting	400	
12	DIVILACAN	Tree planting	500	PGI Counterpart – 11,000 bakauan propagules & 4,510 beach forest tree seedlings
13	ECHAGUE	Tree planting	450	PGI Counterpart – 1,500 assorted forest tree & 150 fruit-tree seedlings
14	GAMU	Tree planting and communal gardening	400	
15	CITY ILAGAN	Tree planting	450	PGI Counterpart – 700 bamboo propagules
16	JONES	Tree planting	450	
17	LUNA	Tree planting and communal gardening	400	
18	MACONACON	Tree planting	400	PGI Counterpart – 2,000 bakauan propagules & 2,255 beach forest tree seedlings
19	MALLIG	Tree planting	450	PGI Counterpart – 993 assorted forest tree & 157 fruit-tree seedlings
20	NAGUILIAN	Tree planting	400	PGI Counterpart – 815 assorted forest tree & 746 fruit-tree seedlings
21	PALANAN	Tree planting	500	PGI Counterpart – 8,250 bakauan propagules & 11,000 beach forest tree seedlings
22	QUEZON	Tree planting	500	PGI Counterpart – 1,985 bamboo propagules & 314 fruit-tree seedlings
23	QUIRINO	Tree planting	450	PGI Counterpart - 611 assorted forest tree & 559 fruit-tree seedlings
24	RAMON	Tree planting	400	

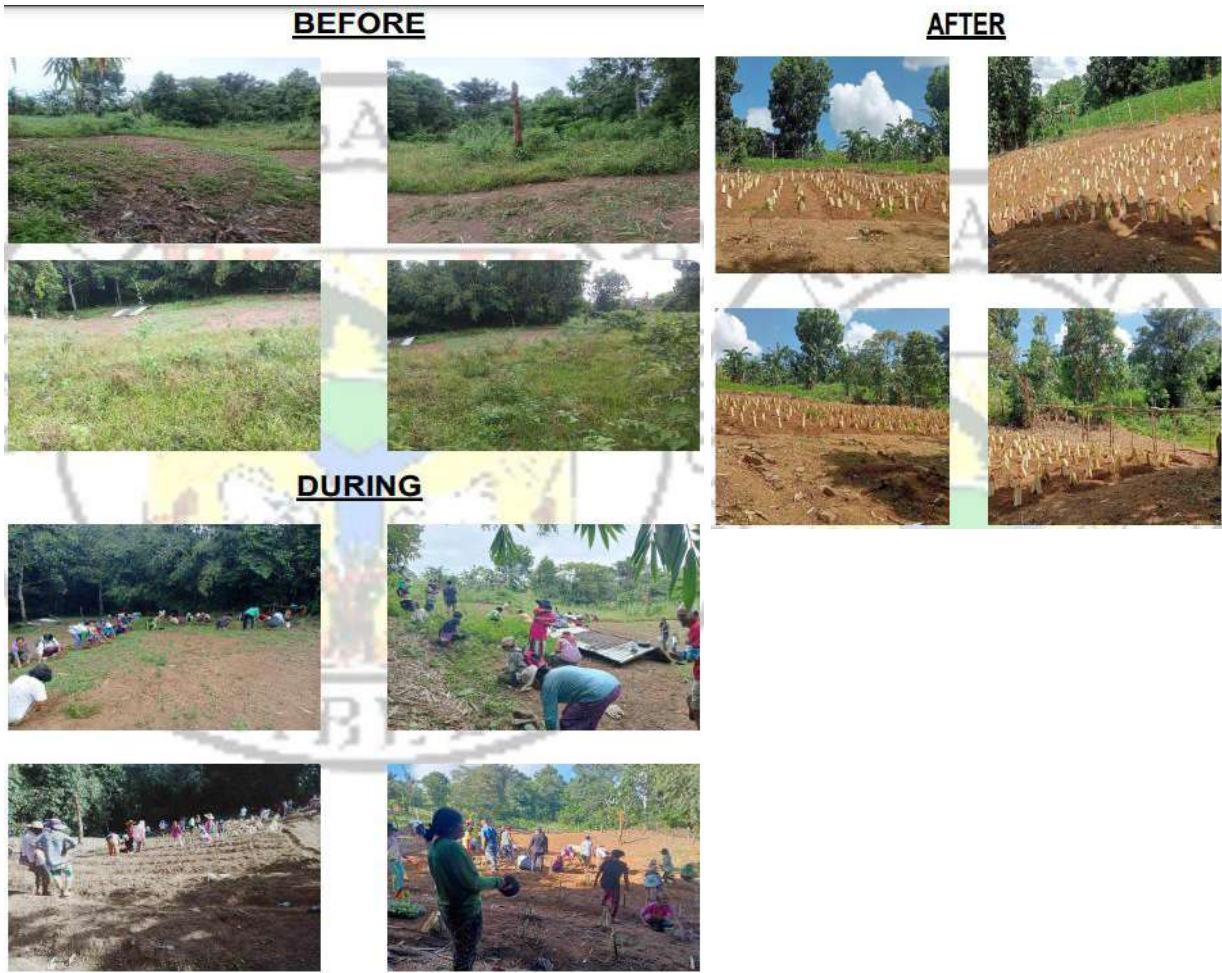
25	REINA MERCEDES	Tree planting and communal gardening	450	PGI Counterpart – 500 bamboo propagules
26	ROXAS	Tree planting	405	
27	SAN AGUSTIN	Tree planting	450	PGI Counterpart – 1,500 bamboo propagules & 150 fruit-tree seedlings
28	SAN GUILLERMO	Tree planting	450	PGI Counterpart – 815 assorted forest tree & 746 fruit-tree seedlings
29	SAN ISIDRO	Tree planting and communal gardening	400	
30	SAN MANUEL	Tree planting and communal gardening	400	
31	SAN MARIANO	Tree planting and communal gardening	450	
32	SAN MATEO	Tree planting and communal gardening	400	
33	SAN PABLO	Tree planting	400	PGI Counterpart – 1,500 bamboo propagules & 150 fruit-tree seedlings
34	SANTA MARIA	Tree planting	450	PGI Counterpart – 993 assorted forest tree & 157 fruit-tree seedlings
35	SANTO TOMAS	Tree planting and communal gardening	400	PGI Counterpart – 500 bamboo propagules
36	TUMAUINI	Tree planting	450	PGI Counterpart – 3,000 bamboo propagules & 300 fruit-tree seedlings

Photo documentations:

San Guillermo



San Mariano

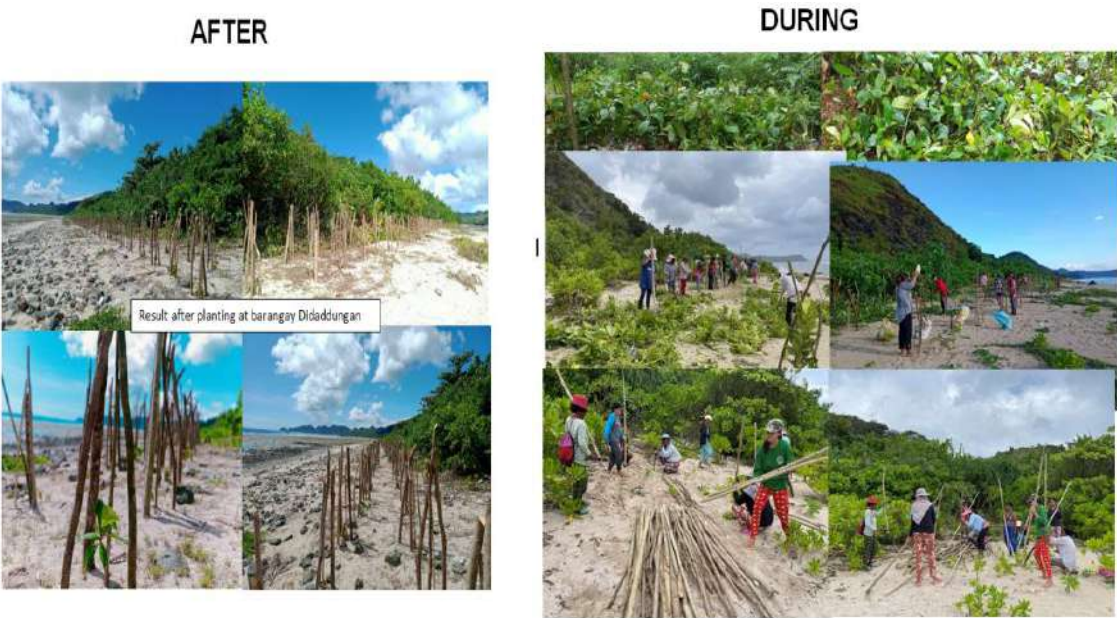


Dinapigue

NAME OF ACTIVITIES: TREE PLANTING
Barangay: Dedekkel Riverbank of Barangay Bucal Sur

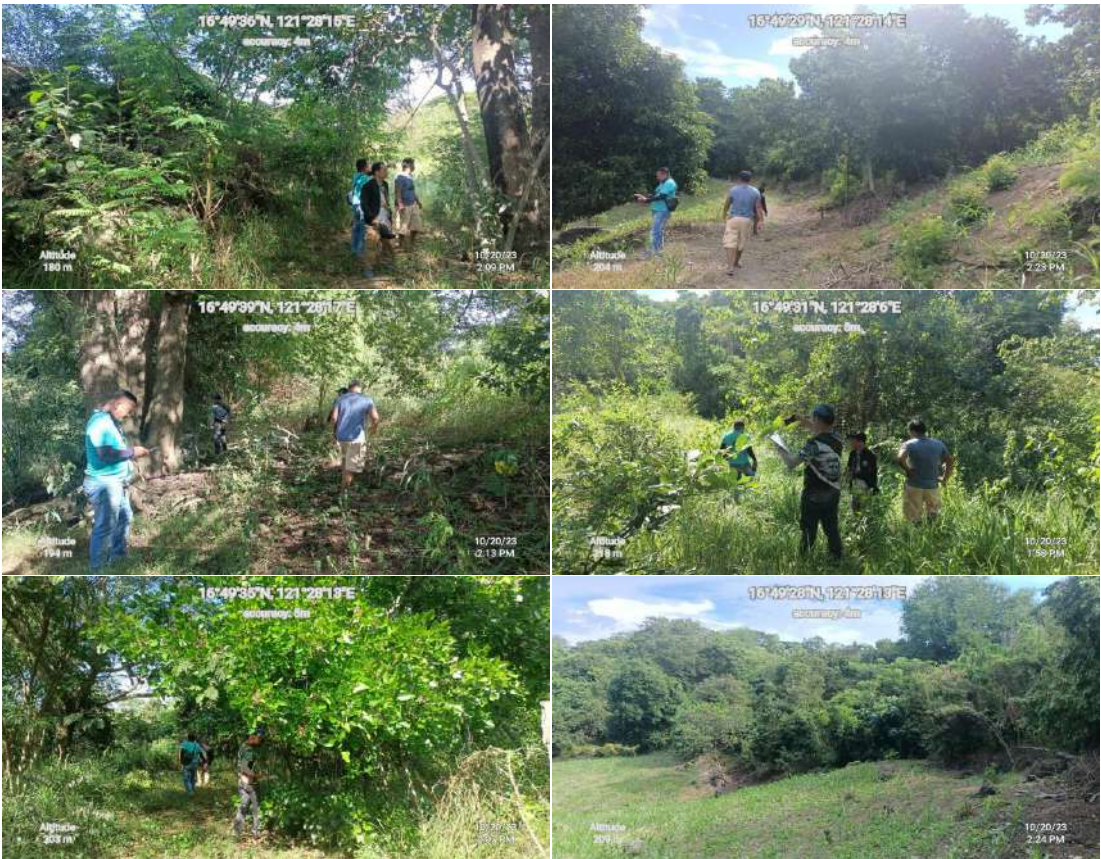


Palanan



III. Conduct of Assessment and Evaluation of Certificate of Stewardship Contract (CSC) Holders

The Assessment and Evaluation of the Certificate of Stewardship Contracts (CSC) were conducted on February 8, 2023 in General Aguinaldo, Ramon, assessing 24 CSC holders, and on October 20, 2023, in the same site (Gen. Aguinaldo), evaluated 9 CSC holders. The detailed results were prepared by DENR-CENRO, San Isidro.



Actual evaluation and assessment of CSC Holders

IV. Activities undertaken under the Philippines Rural Development Project (PRDP) – Social and Environmental Safeguards (SES)

- Referred and submitted SES compliances of Union-Barcolan Farm to Market Road (Gamu) and Rizaluna-Camarao Farm to Market Road (Cordon) Sub-Projects.
- Attended the PRDP Scale Up orientation for LCEs of Isabela and inauguration of Tilapia Fingerlings Production and Marketing Enterprise Sub-Project at Cordon, Isabela on January 17, 2023
- Conducted Sub-Project Appraisal Review of the Proposed Union-Barcolan Farm to Market Road (Gamu) and Rizaluna-Camarao Farm to Market Road (Cordon) Sub-Projects in Gamu and Cordon, Isabela on February 20-23, 2023.
- Conducted Joint Technical Inspection for the 4th Billing of Rehabilitation/Improvement of San Juan-Barucboc-Estrada-Dummon Farm to Market Road Subproject at Quezon, Isabela on July 1, 2023.
- Attended Pre-FBI Conference for the Certificate of Precondition of Rizaluna-Camarao Farm to Market Road PRDP Subproject at NCIP-Isabela Provincial Office, Santiago City, Isabela on July 14, 2023.
- Attended the Local Public Transport Route Plan Formulation, Mentoring and Workshop at Piazza Zicarelli, Upi, Gamu, Isabela on July 5-7, 2023.
- Attended the Training/Workshop on Technical Writing for Feasibility Study and Business Plan Formulation on September 11-15, 2023.
- Conducted Joint Technical Inspection relative to the 6th Billing of the Rehabilitation/Improvement of San Juan-Barucboc-Estrada-Dummon Farm-to-Market Road (FMR) Sub-Project in Quezon, Isabela on October 26, 2023.
- Attended the Joint Technical Review in DA Compound, Iguig, Cagayan on November 21-24, 2023 organized by DA counterparts from Regional Project Coordinating Office 02 (RPCO2) and Project Support Office (PSO) and submitted proposed PRDP subprojects of PLGU-Isabela; The rehabilitation/Improvement of Union-Barcolan Farm to Market Road for review.



V. **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 aimed to provide members with an opportunity to gather, exchange knowledge, and discuss vital matters related to the smooth implementation of various devolved environment-related programs, projects and activities of the LGUs. These initiatives are mandated under RA 7160 and further stipulated through the Mandanas Rule as part of our commitment to Good Governance.

The following activities were undertaken:

Table 19. Activities Undertaken During ILLENRO Regular Business Meeting

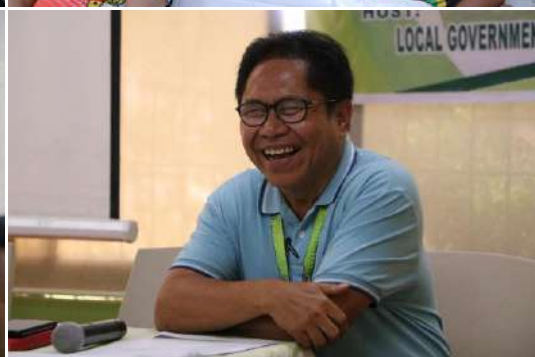
February 17, 2023	<ol style="list-style-type: none">1. Presentation of Conservation of Inland Wetlands;2. Presentation of Waste-to-Energy, Wastewater/Septage Treatment Plants and Eco-Tourism Project; and3. Election of Interim Officers.
March 28, 2023	<ol style="list-style-type: none">1. Presentation of Technical Training on Enhancement of Solid Waste Management for the Introduction of Waste to Energy;2. Presentation of Data Profiling on Biodiversity Conservation and Enhancement Programs.3. Presentation of Inventory of Existing Bamboo Clumps per LGU Jurisdiction;4. Submission of Existing/Updated City/Municipal Environment Codes; and5. Finalization of the ILLENRO By-Laws.
July 19, 2023	<p>The meeting’s highlights centered on the appeal for the Mandatory Creation of MENROs, addressed to all Congressmen of Isabela. This was emphasized as a crucial point required for the 2024 Seal of Good Local Governance (SGLG) evaluation and assessment.</p> <p>The following matters were discussed and deliberated:</p> <ol style="list-style-type: none">1. Conduct of Pollution Control Officers (PCOs) Training/Seminar;2. Revisiting DENR Devolved Functions, with focus on new responsibilities: biodiversity and wetlands inland inventory and profiling;3. Seminar Workshop on Forest Land Use Plans (FLUP) Formulation and Updating;4. Updating of Ecological Solid Waste Management (ESWM) Plans; and5. Capacity Development on the Implementation of Clean Air Act and Clean Water Act Devolved Functions.



Isabela League of Local Environment and Natural Resources Officers (ILLENRO) Monthly Meeting
conducted at Sen. Tito Sotto Hall, Municipal Building, Tumauni, Isabela on February 17, 2023



Isabela League of Local Environment and Natural Resources Officers (ILLENRO) Monthly Meeting
held at Municipal Session Hall, Cabagan, Isabela on March 28, 2023.



Isabela League of Local Environment and Natural Resources Officers (ILLENRO) Monthly Meeting held at Municipal Hall, San Mariano, Isabela on July 19, 2023.

VI. TINIG NG SIERRA MADRE: A Forum on Environmental Protection and Conservation in Commemoration of Earth Day

The Provincial Government of Isabela, through the Environment and Natural Resources Office (ENRO), Isabela Coastal Development Office (ICDO), and Provincial Youth Development Office (PYDO), facilitated the Tinig ng Sierra Madre: A Forum on Environmental Protection and Conservation in Commemoration of Earth Day held at Isabela State University – Main Campus, Echague and LGU Dinapigue Community Center, Dinapigue, Isabela on April 14, 2023 and June 30, 2023.

The forum drew participants from professors and students across various Isabela State University (ISU) and Philippine Normal University (PNU) campuses, Municipal Environment and Natural Resources Officers (MENROs), Municipal Agricultural Officers (MAOs), Municipal Tourism Officers (MTOs), Community Environment and Natural Resources Officers (CENROs), residents in and near the NSMNP, and other agencies and representatives from NGOs.

This activity aimed to promote environmental awareness among different sectors, providing insights into the current situation of the Northern Sierra Madre Natural Park (NSMNP), the impacts of the climate change on marine biodiversity, and highlighting the various programs, projects, and activities undertaken by the PGI for the preservation of Northern Sierra Madre Natural Park.





VII. Seminar/Workshop on Profiling for Biodiversity Conservation and Wildlife Law Enforcement

Conducted by the Provincial Government of Isabela, through the Environment and Natural Resources Office, this seminar/workshop on Profiling for Biodiversity Conservation and Wildlife Law Enforcement took place on May 25-26, 2023 at Camp Samal, Arcon, Tumauni, Isabela. The objective was to equip participants with the essential knowledge and skills required for conducting profiling activities related to biodiversity conservation, enhancement programs, and wildlife law enforcement with their respective cities/municipalities in the province of Isabela.

A total of thirty-three (33) City/Municipal ENR Officers and three (3) representatives from various cities/municipalities participated in the seminar.

On the first day, in lieu of the ENR Officer, who was on important official business travel, the Assistant ENR Officer, For. Rosemarie T. Zabala extended the welcome and delivered opening remarks. She underscored the significance of the training, particularly in light of the devolution of new functions on Biodiversity Conservation and its inclusion as an additional requirement for assessment in the Seal of Good Local Governance (SGLG). Emphasizing their roles as leaders and supervisors in their respective C/M ENR Officers, she urged a commitment to enhance competencies as coaches and performance development partners.

She stressed the importance of nurturing a learning organization to provide opportunities for employees to share insights and experiences across levels and functions. This approach creates an enabling environment for managing performance, coaching results, and creating and fostering a high-performing Office in the Provincial Government of Isabela by manifesting these leadership competencies.

Subject Matter Experts (SMEs) from DENR-PENRO Isabela, For. Nestor S. Lorenzo, Park Operations Superintendent (POSu) of the Northern Sierra Madre Natural Park (NSMNP) and Ms. Luzviminda U. Rosario, Environmental Management Specialist (EMS) II were invited to share their knowledge and expertise on Biodiversity Conservation and Wildlife Law Enforcement. Mr. Mario Sotto, the Volunteer Bantay Sanktwaryo of Mabuwaya Foundation, Inc., also participated.

The SMEs presented and discussed Republic Act No. 9147 also known as Wildlife Resources Conservation and Protection Act. Topics covered included Inland Wetland Orientation & Information Sheet, Orientation on Urban Biodiversity, Assessment Methods, and Establishment and Habitat Assessment, including Fauna.

Following the lectures, an open forum was conducted, addressing the raised issues and concerns as outlined below:

- Incorporating CLUP and Zoning Ordinances into LGU documents for inland wetlands and green spaces indicators is recommended, given that rivers, creeks, and green spaces are already part of the CLUP.
- A Rapid Assessment of the Biophysical Characteristics of wetlands or green spaces is necessary before passing an ordinance declaring an area as a conservation area, with a full-site assessment to follow.
- Sample forms for wetland and green spaces assessment will be emailed to each participant.

- Some LGUs have prepared supporting documents for the new SGLG indicators on wetlands, biodiversity and green spaces, such as ordinances, PPAs, maps, etc. They are willing to share these documents as a basis for other LGUs in preparing their respective documents.
- LGUs should submit copies of outputs in the inventory of wetlands and green spaces to PGI-ENRO for consolidation. These are also required for SGLG assessment and evaluation.

Following this, the participants had a practicum within the vicinities of Camp Samal engaging in actual profiling activities led by SMEs.

On the second day, starting at 5:30 in the morning, participants returned to the designated practicum area for observation and data gathering. They then went back to the session hall for data sorting and encoding, followed by the presentation of outputs. Then it was followed by the sharing of insights, learnings and experiences as well as issues and concerns LGUs in implementing ENR devolved functions. Emphasis was placed on the long-standing quest for the creation of MENRO positions considering the significance and complexities of these ENR functions at the LGU levels. Through the Isabela League of Local ENROs Vice President, Mr. Johann Ocampo, the MENROs aim to address these issues via channels, proposing resolution to our Representatives in Congress.



DAY 1



Field practicum within the vicinities of Camp Samal on the actual conduct of profiling activities led by the SMEs



DAY 2

VIII. Bamboo Benchmarking Mission and Skills Training

Personnel from this office joined the Bamboo Bench Marking Mission initiated by the DTI Provincial Office in Pangasinan and Metro Manila on September 25-29, 2023. The team was composed of 3 representatives from this Office, 4 from DTI-PO, 11 LGU MENRO representatives from MLGUs of Benito Soliven, Cabagan, Cordon, Divilacan, Jones, Quezon, Quirino, Reina Mercedes, Roxas, and San Guillermo. Also, representatives from Bamboo Handicrafts Processor and Bamboo Growers Association attended said activity.

This Benchmarking mission aimed to give opportunity to the participants and learned the best practices in bamboo plantation management and skills training on bamboo treatment and engineered bamboo processing.



Some photos taken during the Bamboo Benchmarking Mission and Skills Training

IX. Benchmarking Activity of SSF Rattan Processing Center

ENRO personnel together with the representatives from PGSO, PTO, PPDO, PEO, DTI and skilled private rattan furniture makers proceeded to San Fernando, Pampanga to conduct benchmarking activity for Shared Service Facility (SSF) Rattan Processing Center ON August 31-September 1, 2023.



The team coordinated first with Mr. Joseph Pineda focal person of DTI Regional office Pampanga and informed him on the purpose of visit which is to benchmark the best practices of Pampanga rattan and bamboo industry in order to ensure smooth operations and maximum utilizations of the SSF Rattan Processing Facility of the Provincial Government of Isabela (PGI) and served as basis in the preparation of the Rattan Processing Facility Operations Manual. After which, the team visited their show rooms showcasing sampled bamboo designs and products inside the DTI building. Afterwards, the team proceeded to Lubao Bamboo Hub and Eco- Park wherein the bamboo processing and manufacturing facility was located.

Finally, the team visited the Calfun Manufacturing and Furniture, one of the biggest rattan industry in Pampanga. Calfun industry President, Mrs. Julieta B. Sarmento, immediately conducted brief orientation relative to the rattan industry. She also imparted the success story of their company from small firm until it became a huge rattan manufacturing industry in Pampanga. After the orientation, the team together with Mrs. Sarmento was able to visit their processing and manufacturing facilities. Based on our observations the operational period of manufacturing process from raw materials until finish product was done almost instantly since every worker has their own individual tasks. In order to gather ideas and additional information regarding the rattan processing and manufacturing, some members of the team conducted dialogues with some of the workers/manufacturers.

In conclusion, the team was able to learn new information that will be essential in the crafting of the Rattan Processing Facility Operations Manual that will serve as guide during its operation by the PGI. Based on observations at the Calfun manufacturing and furniture compared to the SSF Rattan Processing Facility of the PGI, there were still many other items/materials that are needed for the PGI Rattan Processing Facility to operate and progress smoothly such as Blue torch with tank, fabricated manual rattan cutting combination of half scissors and knife, rattan wicker blades, 5 set fabricated rattan skin remover, 5 gas stove heavy duty with LPG for steaming, water system fittings, 5 set coupling and hose for nail gun and spray gun, nails, lubricants for sewing machine, 20 chairs for sewing machines, garments, threads, sewing machine heavy duty, scissors, tailors chalk, measuring tape, meter stick, electric fans/cooler, trash bins, 6 set of first aid kit, 20 pieces hard hats, office sets for 2 rooms, tool set for machines, apron, safety

glasses, gloves, paint, varnish, welders helmet and goggles, welding rods, earplug, metals for frame, rattan raw materials, kitchen utensils, bathroom toiletries, signages and directories.



X. *Writing in the Workplace: A Lecture-Workshop on Basic Communications*

The Environment and Natural Resources Office led by the ENR Officer, For. Geronimo P. Cabaccan, Jr., and supported by the Provincial Government of Isabela (PGI), successfully organized 2-day training program, titled **‘Writing in the Workplace: A Lecture-Workshop on Basic Communications.’** This event held at the GFNDy Session Hall, Provincial Capitol on October 10-11, 2023, aimed to enhance basic communication skills.

A total of 26 ENRO employees, including 11 participants from various selected offices of the Provincial Government, actively participated in this comprehensive two-day activity.

Ms. Rodessa D. Lachica covered the essentials and preparation of "Basic Office Communications (BOCs)." Ms. Claire P. Paguirigan discussed ‘Other Basic Forms.’ The session continued with a comprehensive presentation on ‘Why We Need Well-Prepared BOCs and The Memorandum and Other Documents’ delivered by Provincial Administrator, Atty. Noel Manuel R. Lopez. The day concluded with an open forum moderated by Subject Matter Experts.

On the second day, For. Rosemarie T. Zabala provided valuable insights into Project Proposal Preparation, Project Development Plan, Work and Financial Plan, and the Action Plan, including Project Monitoring, and Evaluation and Progress Reports.

This lecture-workshop aimed to equip ENRO personnel and participants from other departments with the ability to prepare basic office communications and familiarize them with the importance of effective communication.

The two-day training is crucial for participants as it significantly enhances their efficiency and effectiveness as writers.



Day 1 of Writing in the Workplace: A Lecture-Workshop on Basic Communications



Day 2 of Writing in the Workplace: A Lecture-Workshop on Basic Communications

XI. Information, Education, and Communication (IEC) Campaign on Relevant Environmental Laws Devolved from DENR to Local Government Units (LGUs)

The Provincial Government of Isabela through its environmental implementing arm, the Environment and Natural Resources Office, conducted an Information, Education, and Communication (IEC) Campaign on relevant forestry, mining, and environmental laws devolved from DENR to Local Government Units (LGUs) on December 12 & 19, 2023 in the municipalities of Reina Mercedes and Naguilian, Isabela.

This activity specifically aimed to increase community awareness of forestry, mining and environmental laws, promote a multi-stakeholder participative approach for environmental preservation, and strengthen the partnership between LGUs and communities in implementing environmental programs.

Subject Matter Experts (SMEs) covered the following topics:

- Ms. Gina Ruiz, Community Development Assistant II, provided insights into the salient features of RA 9003 also known as the Ecological Solid Waste Management Act of 2000.
- For. Dalisay Baligod, Environmental Management Specialist II and For. Bladimir A. Pintucan, Community Development Officer II, presented and discussed the devolved Forestry laws, Provincial Executive Orders and the Programs/Projects/Activities (PPAs) of ENRO.
- For. Joyce Cabalonga, Community Development Officer II, informed the participants about Devolved Functions on Small-Scale Mining & Provincial Ordinance No. 5, series of 2014.
- For. Celia Badua, Supervising Environmental Management Specialist, delivered an overview and briefing on some provisions of environmental laws devolved to LGUs, including RA 9275 or the Philippine Clean Water Act of 2004; RA 8749 or the Philippine Clean Air Act of 1999; RA 6969 or the Toxic Substances and Hazardous and Nuclear Waste Control Act of 1990; DAO 2016-08 or Water Quality Guidelines and General Effluent Standards of 2016; and DAO 2021-19 or Updated Water Quality Guidelines (WQG) and General Effluent Standards (GES) for Selected Parameters.







Information, Education, and Communication (IEC) Campaign at Naguilian, Isabela on December 19, 2023.

XII. Rattan Processing SSF Project: Machine Operators' Assembly and Maintenance Training

The Provincial Government of Isabela facilitated the Rattan Processing Shared Service Facility Project: Machine Assembly, Maintenance and Operator's Training at Cabisera 10, City of Ilagan, Isabela on August 3-4, 2023. The 2-Day Operators' Training was conducted in partnership with the Department of Trade and Industry (DTI) - Isabela. The activity, centered in Rattan Processing, aimed to utilize the use of the newly established Rattan Processing Center Facility through the conduct of assembly, maintenance and test run of machines to ensure that they are functioning and operational. Aside from rattan equipment, wood and sewing machines were also installed at the facility. The supervising team composed of personnel from DTI-Isabela, PGI-Environment and Natural Resources Office, Provincial Government Services Office and Provincial Engineering Office.

A total of forty two (42) participants coming from nearby barangays and representatives from LGU Quezon and Benito Soliven were trained to operate all the equipment: the split sizer, sanding, choring, pole cutter straightening, rattan pole steamer, pole binding jigs for rattan; combined bar and pipe cutter, industrial bench vise saw, compound mitter wood saw, thickness plane, ban saw, arc welding machine, driller for wood and metal; and leather stitching sewing machine (heavy duty) for rattan furniture and wood furniture covers and upholsterys.



Photos taken during Rattan Processing SSF Project: Machine Operators' Assembly and Maintenance at Cabisera 10, City of Ilagan, Isabela on August 3-4, 2023.



Day 1



Day 2

XIII. Basic Rattan Handicrafts and Furniture Making Training

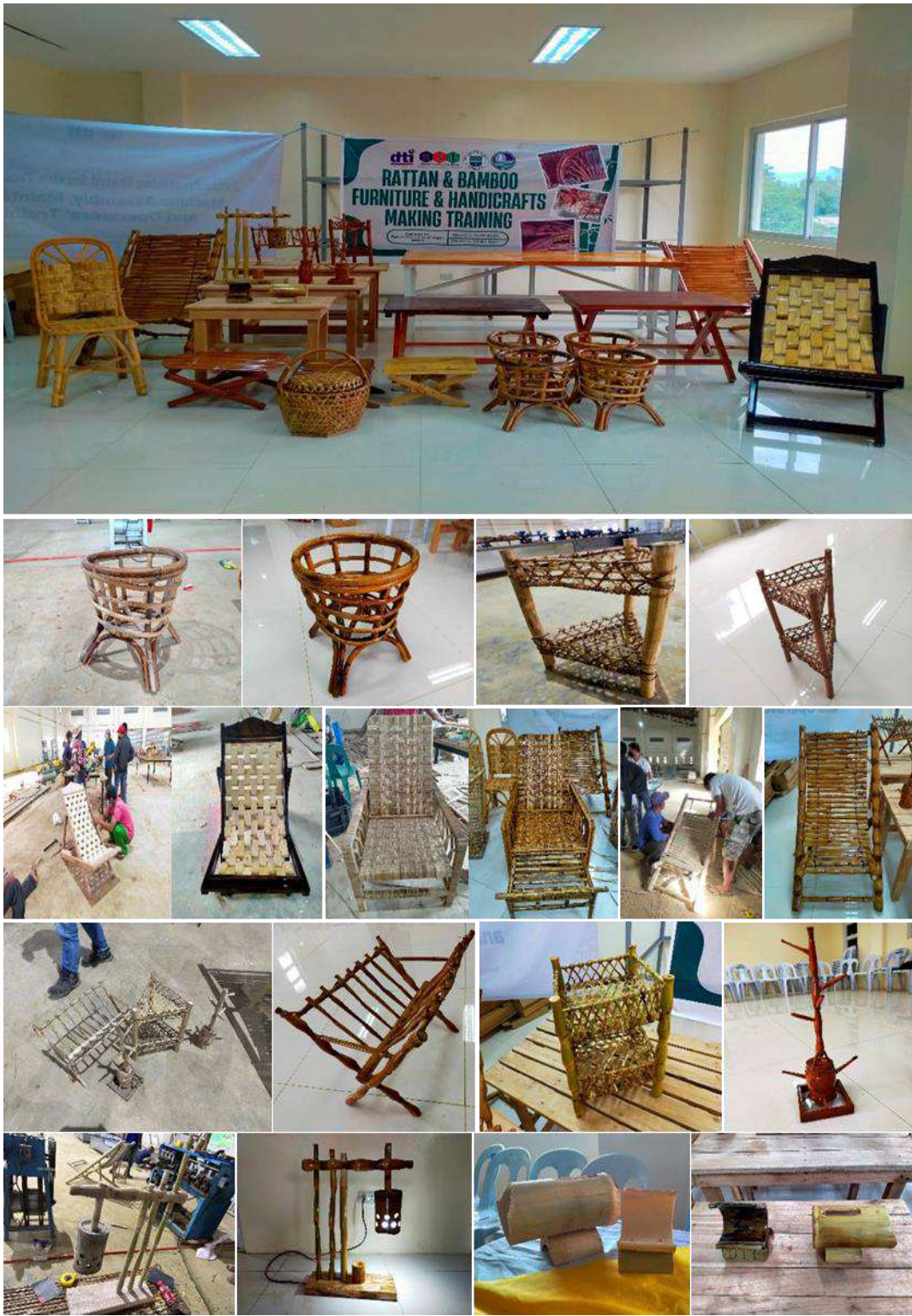
Personnel from this office, facilitated and attended the Basic Rattan Handicrafts and Furniture Making Training on November 16-17, 2023 at PGI-Shared Service Facility (SSF). The 2-Day training was conducted in partnership with the Department of Trade and Industry (DTI)-Isabela and attended by 50 participants from nearby barangays. This activity aimed to produce pre-processed and finished products for livelihood and income generation. Facilitating the training were Unit Heads and staff from the DTI-Isabela, PGI-Environment and Natural Resources Office, Provincial Cooperatives, Livelihood, and Enterprise Development Office, Provincial General Services Office and Provincial Engineering Office.



Some photos taken during the Basic Rattan Handicrafts and Furniture Making Training

XIV. Advance Rattan Handicrafts and Furniture Making Training

ENRO personnel facilitated and attended the Advance Rattan Handicrafts and Furniture Making Training on November 23-24, 2023 at PGI-Shared Service Facility (SSF). The 2-Day training was conducted in partnership with the Department of Trade and Industry (DTI)-Isabela. This activity aimed to produce pre-processed and finished products for livelihood and income generation. Facilitating the training were Unit Heads and staff from the DTI-Isabela, PGI-Environment and Natural Resources Office (ENRO), Provincial Planning and Development Office (PPDO), Provincial General Services Office (PGSO) and Provincial Engineering Office (PEO). A total of twenty-three (23) trainees attended coming from nearby Barangays.



Products produced during the Basic Rattan Handicrafts and Furniture Making Training

XV. Site Inspection on the Completed Dredging Projects as Bamboo Planting Areas

Personnel from this office conducted a site inspection on the completed dredging projects in relation to the proposed 1 Million Bamboos in 1 Day Project in the municipalities of Gamu, Naguilian, San Mariano, Burgos, Roxas, Mallig, Aurora, and Cabatuan, Isabela. The objective was to assess the sustainability of these areas for bamboo planting. The results of the inspection are detailed below:

Table 21. *Results of Site Inspection*

Area Inspected	Actual Length (km) of completed dredging	Actual Length for planting (m)	Estimated Seedlings to be planted (2m x 2m)	Remarks
Carappigan Creek, Gamu Isabela (Phase I)	7.14	40	20	<ul style="list-style-type: none"> Right side: Possible for planting The other side: Not feasible for planting located nearly rice fields
GOC Creek, Gamu Isabela	3.02			<ul style="list-style-type: none"> Restricted Area/ No other way
Ueg Creek, San Mariano, Isabela	4.785	30	50	<ul style="list-style-type: none"> One side: Possible for planting (single strip) The left side: Already planted with vegetable, banana, and other tree species
Rang-ayan - Aguinaldo Creek, Naguillian, Isabela	1.5	20	50	<ul style="list-style-type: none"> Rangayan boundary: Not possible for planting; alongside ricefields Right side (Aguinaldo): Possible for planting
Flores- Rang-ayan Creek, Naguillian, Isabela	1.5	50	25	<ul style="list-style-type: none"> One side of Flores: Possible for planting; Part of Rang-ayan: Not feasible for planting due to crop cultivation
Cabuan-Dalayap-Masigun Creek,	4.92			<ul style="list-style-type: none"> Not feasible

Burgos, Isabela				
Patawig Creek, Sitio Acacia, San Jose, Roxas, Isabela	2.5	100	200	<ul style="list-style-type: none"> Right side: Possible for planting (double strip) Some portion: Already planted with bamboos & coconut on the previous project, approximately more or less 40% survival rate Left side: Not possible for planting; near residential houses
Casili Creek, Mallig, Isabela	2.3	40	20	<ul style="list-style-type: none"> Right side: Possible for planting (single strip) Left side: Already planted with bamboos
Mallacopa Creek, Aurora, Isabela	8.92	800	400	<ul style="list-style-type: none"> One side: Possible for planting (single strip) Some portion on the right side: Already planted with bamboos and forest trees Left side: Not possible for planting; near residential houses
Ubbog Creek, Brgy. Paraiso, Cabatuan, Isabela	2.05	500	250	<ul style="list-style-type: none"> Small portion of the area: Possible for planting (single strip) -Some portions: Partially planted with vegetables
Sinalugan Creek, Brgy. Buenavista, Angadanan, Isabela	2.538	100	600	<ul style="list-style-type: none"> Possible for planting double strip both sides

Doña Maria Creek, Brgy. Lourdes, Angadanan, Isabela	2.97	100	600	<ul style="list-style-type: none"> Possible for planting with present vegetation
Ingud creek, La suerte	2.78	100	1,000	<ul style="list-style-type: none"> Possible for planting double strip both sides
Benda creek, Brgy. Cumu, Angadanan, Isabela	1.11	100	1,000	<ul style="list-style-type: none"> Possible for planting double strip both sides
Lakay-lakayan Creek, San Agustin, Isabela	5.6	50	200	<ul style="list-style-type: none"> Possible for planting double strip both sides
Colorado Creek, San Guillermo, Isabela	3.215	300	2,000	<ul style="list-style-type: none"> Possible for planting; some portions planted with bananas
				<ul style="list-style-type: none"> Double strip both sides
Villa remedios, San Guillermo, Isabela	3.215	100	600	<ul style="list-style-type: none"> Possible for planting double strip both sides
Guam creek, San Guillermo, Isabela	3.215	100	800	<ul style="list-style-type: none"> Possible for planting double strip both sides
Villa Teresita, San Guillermo, Isabela	3.215	100	300	<ul style="list-style-type: none"> Possible for planting with present vegetation
				<ul style="list-style-type: none"> Double strip both side
Total			1,015	

These findings will guide the strategic implementation of the bamboo planting project, ensuring optimal use of suitable areas while respecting environmental considerations and existing vegetation.

Photo documentations during the site inspection:

Sinalugan Creek, Brgy. Buenavista, Angadanan, Isabela



Doña Maria Creek, Brgy. Lourdes, Angadanan, Isabela



Dalsem creek, Angadanan, Isabela



Paludo creek, Brgy. La Suerte, Angadanan, Isabela



Ingud creek, La suerte



Benda creek, Brgy. Cumu, Angadanan, Isabela



Lakay-lakayan Creek, San Agustin, Isabela



Colorado Creek, San Guillermo, Isabela



Villa remedios, San Guillermo, Isabela



Guam creek, San Guillermo, Isabela



Villa Teresita, San Guillermo, Isabela



Carappigan Creek, Gamu, Isabela



Ueg Creek, San Mariano, Isabela



Rang-ayan-Aguinaldo Creek, Naguilian, Isabela



Flores-Rang-ayan Creek, Naguilian, Isabela



Patawig Creek, Sitio Acacia, Brgy. San Jose, Roxas, Isabela



Casili Creek, Mallig, Isabela



Casili Creek, Mallig, Isabela



Ubbog Creek, Brgy. Paraiso, Cabatuan, Isabela



Environment and Natural Resources Office

XVI. Maintenance of Isabela Provincial Eco-Park

The following were the activities conducted by the Job Order service providers assigned at the Isabela Provincial Eco-Park, to wit:

1. Maintained 3.3 hectares Isabela Provincial Eco-Park to include the constructed Permaculture (Ale-Ale) Building.
2. Conducted housekeeping (Lodging rooms, Workshop and Kitchen floor).
3. Conducted landscaping, beautification, and herbal garden maintenance in front of the building.
4. Tree Park and pathway maintenance (grass cutting, tree thinning, pruning and tree planting).
5. Conducted composting activities
6. Other activities assigned:
 - Attended Benchmarking Activities on Rattan Handicraft Industry at San Fernando, Pampanga
 - The two (2) boys served as Trainors during the conduct of Rattan and Bamboo Furniture and Handicrafts Making/Training at Cabisera 10, City of Ilagan, Isabela
 - Cleaning/removal of water hyacinth invaded the swamp areas.
 - Maintained bamboo seedlings donated by some stakeholders
 - Hauling of rice straw and organic fertilizer
 - Planting of tree seedlings in the capitol vicinities

Photo documentations during the maintenance activities of Isabela Provincial Eco-Park



Environment and Natural Resources Office



Environment and Natural Resources Office

MEETINGS, CONFERENCES, CONVENTIONS, TRAININGS AND OTHER EDUCATION PROGRAMS

ATTENDED

Date	Meetings/Training/Seminar/Webinar/Workshop Title
January 19, 2023	Finalization of MMT of Dinapigue Mining Corporation
March 13-17, 2023	1st Quarter MMT Validation of Dinapigue Mining Corporation
March 14, 2023	NSMNP-PAMB Meeting
March 21-22, 2023	Capacity Building on Biodiversity Monitoring Tools and Protected Area Activities
March 22, 2023	Pinacanauan de Tuguegarao – Water Quality Management Area (WQMA) Governing Board Meeting
March 28, 2023	PELEC 1 st Quarter Meeting
April 11-15, 2023	Consultation Workshop on the Updating of the Northern Sierra Madre Natural Park Protected Area Management Plan
April 19, 2023	Training on Policy Workshop re: Resilience – Building Among Smallholder Farmers of Selected Upland Farming Communities in the Province of Isabela
April 20-22, 2023	MMT Meeting
April 26, 2023	2 nd Quarter PAMB En Banc Meeting
April 27, 2023	Calao-Delinquente-Diadi River System – Water Quality Management Area TWG
May 2-16, 2023	Leadership & Management Development Course
May 3, 2023	2 nd International Conference for Climate Change Adaptation & Disaster Risk Reduction Management
May 3, 2023	PMRB Meeting
May 10, 2023	MRFC Meeting of the Dinapigue Mining Corporation
May 20, 2023	Planning Workshop for the Preparation of Site management Plan of Dunoy Lake
June 7-9, 2023	Valuing Public Records thru the Establishment of Effective Records Disposition Program
June 19, 2023	Provincial Census Board Meeting
June 22, 2023	Induction Program of New Officers of Caquilingan Small Scale Miners Association Inc.
June 23, 2023	CSI Leadership Series via Online
June 25, 2023	Celebration of Arbor Day
July 18, 2023	NSMNP Marine Protected Area Committee Meeting via Zoom
July 20, 2023	BSP Lecture on Familiarization of Philippine Currencies
July 20-21, 2023	Writeshop on the Updating of the NSMNP PAMB
July 21, 2023	2 nd Quarter Consultative Meeting on the 2023 RRP thru CFW.T Implementation
July 26, 2023	AAF Rattan Shared Service Facility Meeting
July 27-29, 2023	2 nd Quarter 2023 MMT Meeting
August 10, 2023	Provincial Awards Committee Meeting
August 15, 2023	Initial Review of Budget Proposal of Annual Budget FY 2024
August 18,22-25, 2023	Provincial Awards Committee on Local Legislative Awards
August 25, 2023	Attended MMT-TRMP Meeting
October 24-25, 2023	Data Consolidation, Analyses, and Writeshop for the LPTRP
October 24-25, 2023	Workshop on the Updating of Ecotourism Management Plan of the NSMNP
October 26, 2023	TRMP-MMT Meeting
November 13-14, 2023	Marine Protected Area Network (MPAN) Consultation Meeting
November 17, 2023	4 th quarter PAMB Meeting
November 21-22, 2023	1 st Cagayan Valley Ecotourism Summit

Environment and Natural Resources Office

November 23, 2023	2 nd Semester 2023 Regular Business Meeting on the Regional Development Council via Zoom
November 24, 2023	Calao-Delinquente-Diadi River System-Water Quality Management area (WQMA) 4 th Quarter Management Board Meeting
November 29-30, 2024	RA 11898 Seminar
December 5, 2023	Presentation of Wetland Site Management Plan of Dunoy lake
December 12, 2023	Data Analyses for the LPTRP
December 12, 2023	PTDP-TWG Meeting
December 14, 2023	PSA Provincial Product Account Dissemination Forum
December 14, 2023	Output Presentation of the Isabela Preliminary Land Cover Map via Google Map
December 14, 2023	4 th Regular Business Meeting of the PDRRM Council
December 27, 2023	TRMP-MMT Meeting

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THE ENRO PERSONNEL

GERONIMO P. CABACCAN, JR.	ENR Officer
ROSEMARIE T. ZABALA	Assistant ENR Officer
CELIA N. BADUA	Supervising Environment Management Specialist
DALISAY A. BALIGOD	Environment Management Specialist II
SHIRLEY S. SIA	Administrative Officer IV
TEODORICO S. BAGUNU	Community Development Officer II
JOYCE N. CABALONGA	Community Development Officer II
BLADIMIR A. PINTUCAN	Community Development Officer II
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ROGEL A. MANSIBANG	Community Development Assistant II
GINA D. RUIZ	Community Development Assistant II
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WILLIAM N. CORPUZ	Community Development Assistant II
JC WEBSTER T. SANCHEZ	Community Development Assistant II
JESSA C. RIVERO	Community Development Assistant II
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CHRISTIAN JUNE D. BULIBOL	Administrative Aide III
JACQUELYN S. BUCALA	Administrative Aide II
LARRY C. LORENZO	Administrative Aide III/Driver
EDGARDO A. MALANA	Administrative Aide I
ESTEBAN V. ASUNCION	Administrative Aide I


THE ENRO CONTRACTUALS

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NELSON B. BULAUAN	Administrative Assistant I
VANESSA S. BALMES	Administrative Assistant I
JANRY DAVE L. LUIS	Administrative Aide III

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THE ENRO ISEP-TF OPERATIVE MEMBERS

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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.”*

Environment and Natural Resources Office

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.

