

FOREST MANAGEMENT AND CONSERVATION DIVISION

I. NURSERY OPERATIONS AND MAINTENANCE

For the year 2021, a total of 79,294 assorted fruit and forest tree seedlings both sexually and asexually propagated including the bamboo propagules were procured and produced and taken cared of at the Provincial and Clonal Nurseries to include the remaining stock balance from 2020. A total of 39,445 assorted seedlings were disposed and distributed to different public and private entities such as Municipal and Barangay LGUs, POs/NGOs/ Cooperatives, schools, other government agencies like the, Department of Education, Philippine Army and Philippine National Police in support to our greening activities. However, due to unavoidable circumstances, 13% mortality rate equivalent to 10,542 seedlings was recorded.

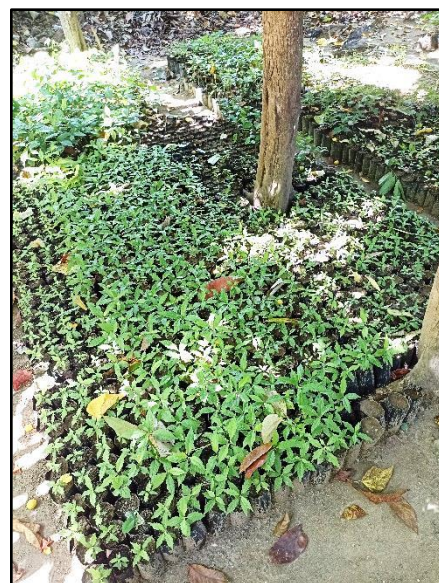


Inventory of Seedlings at Provincial Nursery as of December 2021

Particulars	Previous Stock Balance (2020)	Procured, produced & Donated	Total	Disposed	Mortality	Remaining Stock Balance (Dec. 31, 2021)
Forest Trees Seedlings	16,887	21,058	37,945	18,011	4,662	15,272
Fruit Trees Seedlings	11,697	21,635	33,332	14,848	4,509	13,975
Coconut Propagules	835	-	835	231	709	105
Bamboo Propagules	3,277	3,905	7,182	6,355	662	165

On the other hand, around 5,000 potted seedlings were not yet included in the final inventory. These are the seedlings produced which are still under recovery and hardening stage; thus, are not yet ready for disposal. It includes the seedlings produced by the ISEP-TF Operative members.

There were six (6) laborers hired to conduct regular nursery activities augmenting the technical personnel assigned in the Provincial and Clonal nurseries. Activities included, but were not limited to, potting, seeds and wildlings collection, seedling propagation, sorting of seedlings for hardening, brushing, ring weeding and greening of the two (2) nurseries.



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Some photos of the activities undertaken by the Job Order laborers



II. FOREST PROTECTION AND LAW ENFORCEMENT

A. Manning of Checkpoints

The Isabela Environment Protection – Task Force (ISEP-TF) manned and maintained six (6) checkpoints on a 24/7 basis. The 56 ISEP-TF operatives concentrate on forest and environment protection, and frequently conducted surveillance, foot and mobile patrolling and acted/responded on tipsters (SMS) reports regarding violations on forestry and environment related laws. Other personnel were also assigned to man different quarry outlets province-wide. These various activities aim to detect any illegal gathering and transport of both forest products and mineral resources.

To ensure that the ISEP-TF operatives appreciate their duties and responsibilities, the ENR Officer steered regular meetings with the members. Such activities served as venue for giving reports on accomplishments and the updates on other issues and concerns in the implementation of forest and environmental laws and policies.



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

For the year 2021, a total of Three Hundred Ninety-Three (393) pieces of different species of woods (Lumber and Flitches) with a total volume of Fourteen Thousand Nine Hundred Forty-Four and 92/100 (14,944.92) board feet were apprehended during the conduct of forest protection and law enforcement activities as shown in the table below. These apprehended forest products were under the custody of PGI-ENRO.

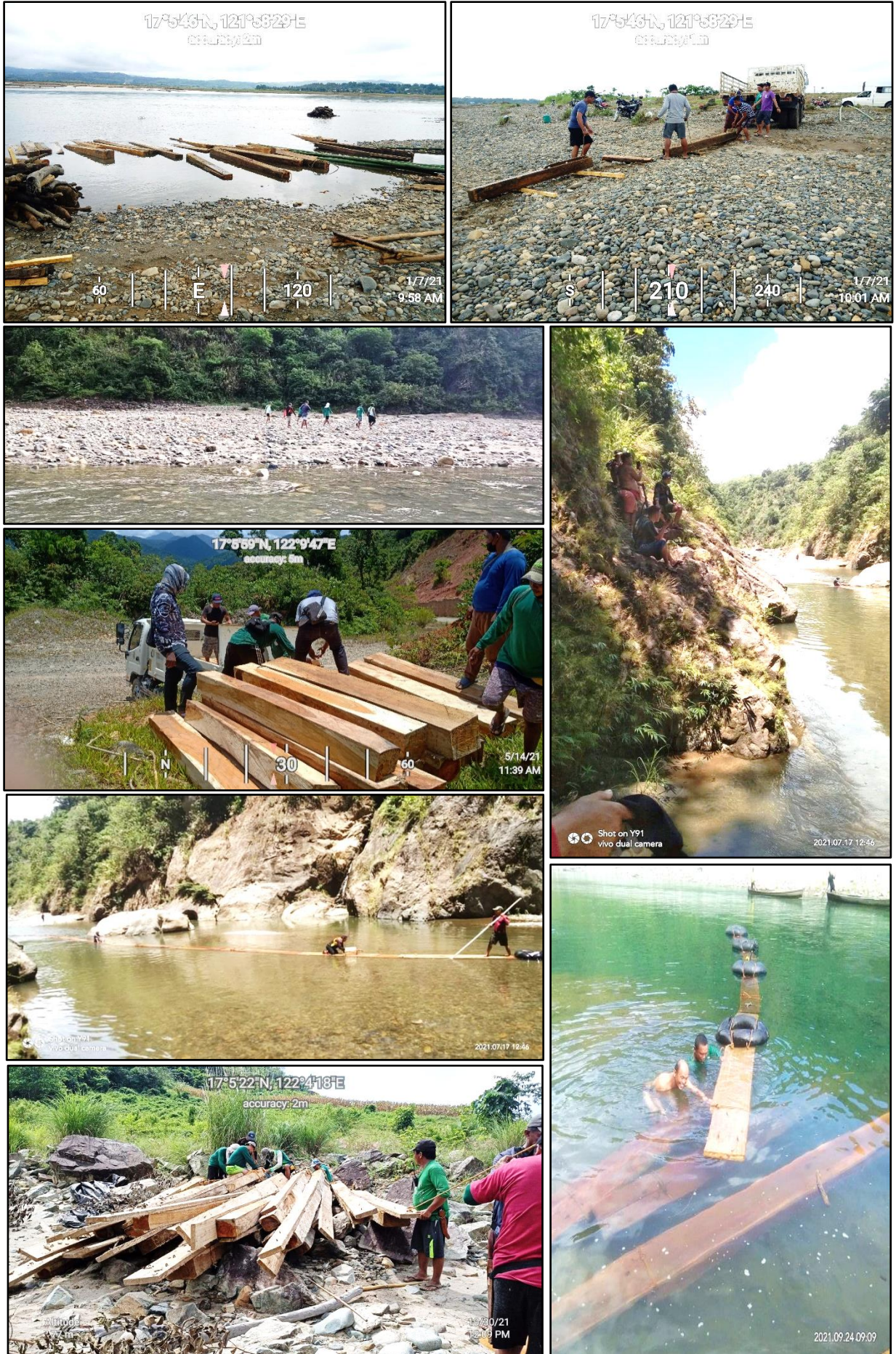
Summary of Apprehended/Confiscated Forest Products for 2021

Particulars	No. of Pcs.	Volume (bt.ft.)
Premium Species Round Logs & Flitches (Narra, Tindalo, Apitong)	195	5,225.35
CHW Lumber & Flitches	393	9,719.57
TOTAL	588	14,944.92

As observed and compared to the 22,120.23 board feet apprehended and confiscated illegally gathered forest products last year of 2020, there is a remarkable decrease in the volume of confiscation. This can be attributed to active conduct of foot and mobile patrolling in hotspot areas and/or indicated that stakeholders are already aware of the deteriorious effects of such environmental abuse.

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Photos during conduct of foot and mobile patrolling; and apprehension of mostly abandoned illegally-harvested forest products



C. Donation and Utilization of Forest Products

The Provincial Government is very much supportive of all the project undertakings of its constituents. During the year under report, it has granted several requests from various qualified beneficiaries for the donation and utilization of apprehended/confiscated forest products to include different hospital and other building repairs of the PGI with a total of 275 pieces of different species of wood (lumber) with an aggregate volume of 7,554.61 board feet.

Donation and Utilization of Forest Products for 2021

Beneficiary	Purpose	Volume (bd.ft)
Provincial Covid Facilities	Establishment/Repair of quarantine facilities and bunkhouses for COVID-19	1,501.97
Province	Repair of buildings, hospitals and other projects	3,740.31
Philippine Army	Repair of Liaison Office	1,002.00
PNP 201 st Manuever Company	Construction of Base Camp for IDRRIP	1,310.33
TOTAL		7,554.61



D. Other Activities

The ISEP-TF Operatives also actively took part in the implementation of various programs, projects and activities of the ENR Office as follows:

- Seedling production;
- Clean-up drives and tree planting activities;
- Compliance monitoring of Barangays and Schools on Provincial-issued Executive Orders;
- Maintenance and protection of IDRRIP Reforestation areas

Seedling production activities of ISEP-TF Operative members



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Some photos during clean-up drive activities joined by ISEP-TF Operative members



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Photos of the different tree planting activities joined by ISEP-TF Operative members



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Conduct of compliance monitoring of schools and barangays relative to Provincial-issued Executive Orders



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Maintenance and protection activities conducted include weeding, re-planting and fertilizer application



II. **CLIMATE CHANGE MITIGATION/ADAPTATION & DRRM MEASURES THRU FOREST LANDSCAPE RESTORATION AND COASTAL RESOURCE MANAGEMENT PROGRAM**

The Province of Isabela is blessed with bountiful natural resources; a champion with regards to the implementation of various forest and environmental programs. To maintain the integrity of its environment, climate change mitigation/adaptation and disaster risk reduction management measures have been mainstreamed and sustained aiming to protect Isabeleños from the ill effects of the changing climate. In coordination and partnership with the different city/municipal counterparts, the following projects were implemented under Climate Change Mitigation/Adaptation & Disaster Risk Reduction Management program.

E. **Watershed Rehabilitation Project**

By definition, watershed is a land area drained by a stream or fixed body of water and its tributaries having a common outlet for surface runoff such as rivers, ocean and even small water impounds which serves as source of potable water, and water for commercial, agricultural and industrial purposes. Maintaining watersheds for water capture, storage and release, these areas shall ensure preservation of water quality.

For this year, the project was implemented in partnership with the Local Government Units of Quezon and Delfin Albano, Isabela. Aforesaid LGUs assisted the PG-ENRO in the conduct of site identification, inspection and evaluation of the project sites. The seedlings and fertilizer requirements was provided by the Provincial Government while the social mobilization for site preparation, planting, maintenance, and protection activities forms the counterpart of City/Municipal LGUs together with the barangays where the project area is located. From the total project cost of Php 562,794.00, the Provincial Government sourced-out the amount of Php 437,550.00 from the LDRRM Fund as counterpart.

➤ **Maintenance and Protection of 8.5 hectares and Establishment of Additional 4 hectares Watershed at Sitio Namnama, Barangay Santos, Quezon, Isabela**

This project commenced in 2018 with an initial 2.5 hectares Agro-reforestation in the Municipal Eco-Forest Park of LGU Quezon. The improvement of the initial project developed a partnership hence an additional 6 hectares Reforestation was established in 2019. Recognizing the commitment of the LGU and the observed development of the project areas, this Office identified and proposed 4 hectares Watershed Rehabilitation to sustain the initiatives previously implemented.

In coordination with the Municipal ENR Officer regarding the project and accordingly, upon discussion with their Local Chief Executive, identified an area located within the 346 hectares forestland declared as watershed under the management and development of the Local Government Unit. On March 16, 2021, this Office conducted actual site inspection of the area and as observed, creeks drain in a small lake; fences are already established assuring that the area are free from stray animals; and initial development has already started with the presence of bamboo and Molave seedlings,

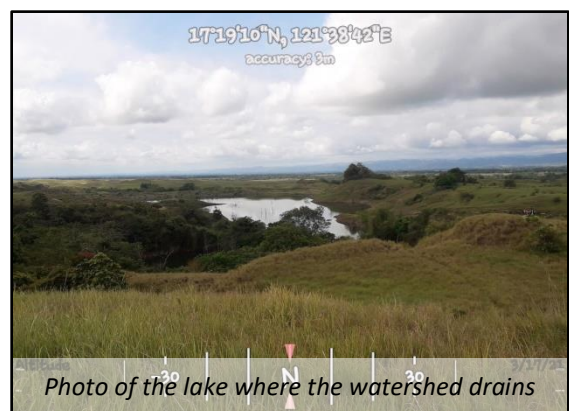


Photo of the lake where the watershed drains

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which were planted on September 2020 according to MENRO. The personnel also observed that the areas planted with various forest trees going to the proposed site are well maintained and the seedlings are already surviving. These include the Reforestation Project plantations of the Provincial Government thru ENRO established in 2018 and 2019, respectively. As counterpart, this demonstrates the commitment of the LGU in ensuring maintenance and protection of the project plantation.



Portion of the watershed area proposed for rehabilitation

The project was implemented on September 17, 2021 planting a total of 3,100 assorted native forest trees seedlings and bamboo propagules. Supervised and joined by personnel of this Office, the activity started at 6:30 in the morning and participated by LGU employees led by MENRO, some members of PNP and officials of the different barangays of Quezon.



Some photos during the tree planting activity

➤ **Rehabilitation of 4 hectares Watershed at Sitio Villa Tj, Barangay Carmencita, Delfin Albano, Isabela**

In coordination with LGU Delfin Albano through the Municipal ENRO, an area was proposed for watershed rehabilitation at Sitio Villa TJ, Barangay Carmencita, Delfin Albano, Isabela. Accordingly, small creeks drain to the Gumiran Small Water Impounding Project which was also identified as sanctuary to migratory birds during their season. Together with MENRO personnel, the Office conducted site inspection and validation and initially, 4 hectares was identified for the project.



Photo of the Gumiran Small Water Impounding Project (SWIP)



Inset: Location of the identified 4 hectares project area and the SWIP

On September 24, 2021, approximately 900 out of the 4,300 assorted native forest trees seedlings and bamboo propagules were planted in the implementation of the project. Due to pandemic restrictions, participants were limited and the activity was attended by LGU employees led by the MENRO and officials of Barangay Carmencita only. Nevertheless, the rest of the seedlings were planted until the second week of October 2021.

Photos during the tree planting activity as initial project implementation



Photo documentation of the tree planting activities in completion of the project implementation



F. Riparian Rehabilitation and Development Project

Recognizing the value of restoring and developing riparian buffers and the vulnerability of the province to flooding, the Provincial Government thru this Office has initiated rehabilitation of riverbanks thru bamboo planting since the year 2012. With initial good results, it has now been included as one of the major priority projects for CCM/A and DRRM Measures. For this year, the project was implemented in partnership with the Local Government Units of Cauayan City, Sto. Tomas, Tumauini, Reina Mercedes, Sta. Maria, Echague and Cabagan, Isabela. Said LGUs assisted personnel of this Office in the conduct of site identification, inspection and evaluation for their proposed project sites. The seedling requirement was provided by the Provincial Government while the social mobilization for site preparation, planting, maintenance, and protection activities

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forms the counterpart of City/Municipal LGUs together with the barangays where the project area is located.

➤ ***Barangays Alicaocao, Turayong, Carabatan Grande and San Luis, Cauayan City, Isabela***

In response to the request of City LGU of Cauayan City for planting materials, personnel of this Office conducted inspection of their proposed area. Since the areas were along the Cagayan River tributaries with Barangays Alicaocao, Turayong, Carabatan Grande and San Luis, it was recommended for riparian rehabilitation project through planting of bamboo propagules and forest tree seedlings. In addition, said barangays were also identified as flood-prone hence the need to rehabilitate and improve said river and creek-lines.



Photos taken during the site inspection of the proposed areas

After series of coordination, the project implementation was conducted July 13-14, 2021, simultaneous with the observation of National Disaster Resilience Month. The 2-day scheduled riparian development activity were successfully undertaken in close coordination with the City ENRO, City SWDO and concerned barangay officials led by their respective Punong Barangays. A total of 1,000 bamboo propagules and Kupang seedlings were planted by the cash-for-work beneficiaries. Prior to planting, a brief orientation on how to plant and care for the seedlings to ensure its growth and development. Also joined in the activity were members of the PNP and CDRRM Rescue Team of Cauayan City.



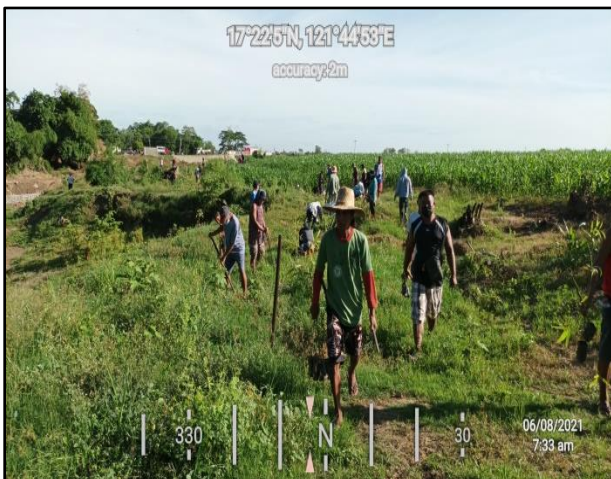
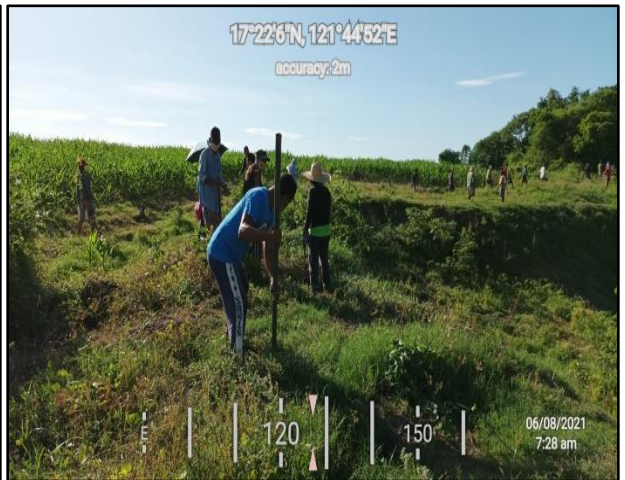


➤ **Bagabag Creek, Sto. Tomas, Isabela (Aug6)**

In coordination with LGU Sto. Tomas through MENRO, personnel of this Office inspected and validated the proposed area for rehabilitation along Bagabag Creek; a tributary to the Cagayan River. The MSWD Officer also informed that cash-for-work beneficiaries shall be utilized for the site preparation and planting activities. As scheduled, the implementation was held on August 6, 2021 and started at around 7:15 in the morning. Together with the cash-for-work beneficiaries, LGU officials and

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members of the BFP and PNP also joined in the activity. A total of 1,000 bamboo propagules were planted culminating the event at 9:00.



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➤ **Barangays Sta. Catalina, Fugu Abajo, Tunggui and Carpintero, Tumauni, Isabela**
(Aug10-13)

To ensure smooth implementation, personnel of this Office presented the project to the Municipal Mayor of Tumauni and he recommended riverbanks that he deemed necessary for rehabilitation. He instructed the MENRO to assist in the conduct of area inspection and validation which was held on March 16, 2021, identifying the Cagayan Riverbanks within Barangays Sta. Catalina, Fugu Abajo, Tunggui and Carpintero. Upon information of the project, the MSWDO shared that cash-for-work beneficiaries can be utilized for the implementation hence a series of meeting was conducted in the identified barangays. A total of 3,000 bamboo propagules was planted on August 10-13, 2021.



➤ **Barangays Turod, Dangan, Sallucong, Binarsang, Santiago, Banquero, Santor and Villador, Reina Mercedes, Isabela**

In coordination with LGU Reina Mercedes thru the designated Municipal ENRO, this Office informed them that the project proposal for Riparian Rehabilitation Project of the Provincial Government is now set for implementation and that the LGU is one of the approved project partners. The MENRO conveyed their appreciation for the support since they have started



riverbank rehabilitation utilizing the Cash-for-Work laborers. Among the components discussed was regarding the farm-owners adjacent the riverbanks where he assured that they are well informed and have committed to protect and maintain the bamboo to be planted together with the respective Barangay Officials. He also informed that the spacing they have designed is 5m by 5m stating that the second phase of the rehabilitation project shall focus in inter-planting fruit trees. Upon confirmation with the MSWDO and MDRMO, the tree planting was held on August 13, 2021 along the Cagayan River and its tributaries within Barangays of Turod, Dangan, Sallucong, Binarsang, Santiago, Banquero, Santor and Villador. Supervised by ENRO personnel, a total of 4,000 bamboo propagules and 300 Kupang seedlings were planted.



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➤ **Barangay Buenavista and Paculagu Creek, Sta. Maria, Isabela (Sept17)**

The area was included recognizing the need for rehabilitation and protection of the resources along the Cagayan River brought by flooding. Initially, this Office led the planting of 200 bamboo propagules on June 2021 in Celebration of the Philippine Environment Month. To sustain said effort, additional planting materials was allotted under Riparian Rehabilitation and Development Project. After series of coordination, the activity was conducted on September 17, 2021 planting a total of 1,000 bamboo propagules along Cagayan River within Barangay Buenavista and Paculagu Creek. It was participated by LGU employees led by the MENRO, barangay constituents, some employees of DENR-CENRO Cabagan and this Office.



➤ **Barangay Annafunan, Echague, Isabela**

Initial coordination identified Barangays Dugayong and Annafunan, Echague for the project. Upon inspection, Barangay Annafunan was validated since the proposed area at Barangay Dugayong was already planted. The implementation was finally conducted on November 11, 2021 where personnel of this Office supervised and joined. Upon courtesy call, the group together with the Municipal ENR Office, we went to the site where the officials and constituents of Barangay Annafunan are waiting. The project area is located along Cagayan River which was previously planted with bamboo; however, the planted propagules were damaged by floodwater. The Punong Barangay recommended that planting be made in the upper portion serving as cornfield buffer since the farmers were already informed regarding the project. After a briefing, tree planting commenced. Partial site preparation was already done prior to the scheduled planting. We were also able to monitor the planted narra and coffee seedlings planted in the area during the One Million Trees One Day Tree Planting Activity in 2019.





➤ ***Balasisg Watershed and Barangays Cansan, Balasisg, Magassi, Garita, Maispi East, Masipi West, Luquilu, Casibarag Sur, Casibarag Norte, Tallag, Sauy, Aggub, San Bernardo and San Juan, Cabagan, Isabela***





G. Agroforestry Development Project

The Provincial Government promotes agroforestry and urban greening projects directed at arresting resource depletion and environmental degradation. This initiative supports re-greening programs for climate change mitigation and adaptation measures simultaneously promoting food sustainability thru planting high value crops such as fruit-bearing trees intercropped with cash crops.

The project was implemented in partnership with the Local Government Units of Barangay Simimbaan, Roxas and Cordon; and a farmer-beneficiary from Sitio Disipon, Barangay Sindon Bayabo, City of Ilagan. The identified partners assisted the PG-ENRO in the conduct of site identification, inspection and evaluation of the proposed project sites. The seedlings and fertilizer requirements was provided by the Provincial Government while the social mobilization for site preparation, planting, maintenance, and protection activities was conducted by the partner LGUs and beneficiary. Implementation activities was closely monitored and supervised by this Office in coordination with the partners to ensure growth and sustainability of areas rehabilitated.

➤ *Rehabilitation and Development of 2 hectares at Barangay Simimbaan, Roxas, Isabela*

This project was in response to the request of Barangay LGU of Simimbaan who requested technical and material assistance in their quest to develop an area within their barangay as Forest Park. On March 16, 2021, personnel of this Office conducted site inspection and validation of the proposed site which resulted to the identification of 2 hectares located along the National Highway, Isabela-Mt. Province Road as initial area for development. The project was also aimed to help sequester carbon emissions of transport facilities plying the route.



Upon approval of the project proposal, this Office proceeded to the area to inspect site preparation activities which accordingly, were conducted from June 29 to July 12, 2021 and done by the barangay residents thru bayanihan. Evidently, weeding and hole-digging were already implemented. The barangay officials requested that a tarpaulin be put-up in the project area indicating that the initiative is a project of the Provincial Government to inform the people hoping that squatting would not take place. They affirmed as well their commitment to maintain and protect the project to ensure its development. Also, they referred if they can interplant forest and fruit-bearing trees in the lower portion of the areas to which this Office allowed. However, suggested that the upper portion be restored first thru planting of forest trees to bring back the natural function of watershed in the area to which they have agreed. Finally, the tree planting was decided to be conducted on the third week of July,

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informing further that the Barangay LGU shall request the assistance of the BFP for watering.

Photos below were taken during the inspection of site preparation activities and final coordination



The tree planting was conducted on July 20, 2021 planting a total of 1,453 assorted forest and fruit-bearing trees seedlings. The activity scheduled to be on July 21, 2021, was implemented a day earlier following the downpour of rain in the municipality. This was in consideration of the prerequisites for tree planting identified during the planning period. Accordingly, the tree planting started at 5 o'clock in the morning and participated by personnel from the PNP Roxas, Roxas-Isabela BIKERS headed by SB Jose Aristoherson Deray, Barangay Council and all employees under the full supervision of the Punong Barangay. Since the conduct of the activity fell during holiday, this Office was not able to supervised the planting, nevertheless proceeded to the project area the following day to validate the implementation. As planned, the fruit trees seedlings were interplanted with the forest trees in the lower portion of the area following the plantation layout. A tarpaulin, as requested, was then installed as information drive in the hope that squatting shall not take place. The BLGU thru the Punong Barangay maintained their commitment to protect the project.

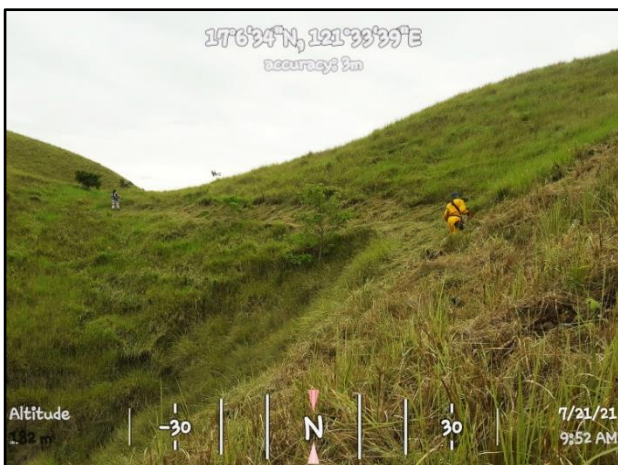
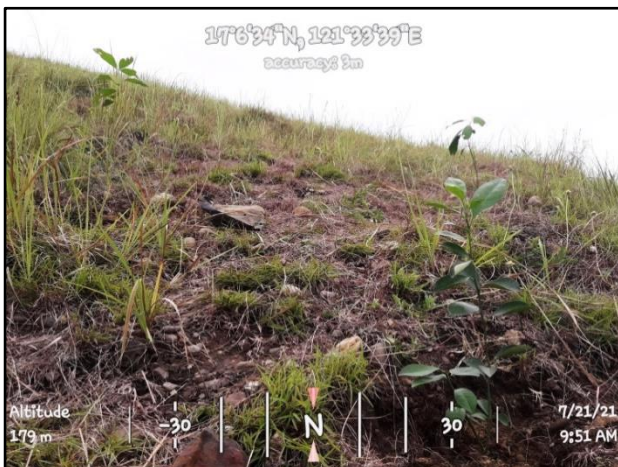
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Photos below were taken during the conduct of tree planting on July 20, 2021



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Photos were taken during the inspection of the implemented Agroforestry cum Watershed Rehabilitation Project validating the submitted accomplishment report of BLGU Simimbaan, Roxas, Isabela.



➤ **Rehabilitation of 2 hectares at Municipal Eco-Forest Park, Cordon, Isabela**

The project emanated during the conducted tree planting activity of the LGU in 2020 where the Provincial Government through this Office attended. The LGU is currently rehabilitating a degraded forest area at Barangay Capirpiriwan which shall be developed as the Municipal Eco Forest Park. Relative to this, they requested for technical and material assistance thus this Office identified an initial 2 hectares for rehabilitation.

The project was set to be implemented on October 2021, however due to pandemic restrictions; the tree planting was done on December 3, 2021. Supervised by personnel of this Office, the activity started at 6:00 in the morning and participated by MLGU employees led by the Municipal Mayor, Barangay Officials of Capirpiriwan, members of PNP and BFP. There were also representatives coming from DENR-CENRO San Isidro and DepEd. A total of 1,500 assorted native forest and fruit-bearing trees seedlings were planted. Prior to the scheduled planting, site preparation activities were already conducted particularly strip brushing, hole-digging and staking.





➤ ***Development of 1 hectare Upland Farm at Sitio Disipon, Barangay Sindon Bayabo, City of Ilagan, Isabela***

Agroforestry is an important tool in the development of the upland area. When practised properly, it helps promote soil and water conservation while increasing productivity and sustainability of uplands farms to the benefit of the farmer and at the same time, protect and conserve the forest and environment. The concept involves combination of woody perennial crops, both forest and fruit-bearing trees, with agricultural crops and/or livestock on a single unit of land.

Tilled by an upland farmer, the 1 hectare farm identified at Sition Disipon, Sindon Bayabo, City of Ilagan was validated to be suitable for agroforestry. The area is currently planted with corn and a few forest trees; the source of water is a small pond that is also utilized as fishpond. The project was presented to the farmer-

beneficiary and the manner of implementation was discussed with him. As a result, he affirmed his willingness to partner with the Provincial Government for the development of his area as the model Agroforestry farm. Due to health restrictions brought by the pandemic, project execution was delayed; nevertheless, it will still be implemented for the year 2022.

H. Beach Forest Rehabilitation Project

The Province of Isabela has four (4) coastal municipalities, namely Maconacon, Divilacan, Palanan and Dinapigue lying along its 113 kilometers coastline. These municipalities face the Pacific Ocean thereby considered high risk to hazards brought by natural phenomena such as typhoons, tidal waves and storm surges.

Among the initiatives undertaken to maintain the integrity of its coast lines, is the implementation of successive rehabilitation of beach forests. This project commenced in 2018 with the rehabilitation of an initial one hectare beach forest area at Sitio Sabang, Barangay Maligaya, Palanan, Isabela. The following year of 2019, additional areas were further developed: 2 hectares at Barangay Maligayan, Palanan and 1.5 hectares at Barangay Dimapula, Divilacan. Maintenance and protection activities for the said plantations were sustained by the corresponding LGUs with the supervision of the Municipal ENR Office of LGUs Palanan and Divilacan, Isabela.

Despite the pandemic, monitoring of the projects was conducted regularly in partnership with the Local Government Units concerned. Among the observations include the commitment of the LGU particularly the Municipal ENR Office in supervising and conducting maintenance and protection activities. Photo documentations were also submitted for updates on the progress of the plantation.

With the objective of ensuring success and sustainability of projects implemented, such commitment complements the aim of the Provincial Government to sustain this initiative. Hence, for this year, an expansion of 6 hectares establishment of Beach Forest at Sitio Sabang, Maligaya, Palanan, and 4 hectares rehabilitation at Bicobian, Divilacan were implemented. From the total project cost amounting to Php 957,500.00, the Provincial Government has approved Php600,000.00 from its Local Disaster Risk Reduction and Management Fund (LDRRMF) for the seedling requirements, field implementation, monitoring and supervision. On the other hand, the Municipal LGUs conducted the plantation establishment, maintenance and protection activities as their counterpart.

Particulars	Sitio Sabang, Maligaya, Palanan	Bicobian, Divilacan
Project Area	6 hectares	4 hectares
No. of Seedlings (2mx2m spacing)	15,000 assorted seedling of Botong, Talisay & Agoho	10,000 assorted seedling of Botong, Talisay & Agoho
Site Preparation	April 14 – July14, 2021	July 8 – 9, 2021

➤ ***Maintenance and Protection of 3 hectares and Additional Establishment of 6 hectares at Sitio Sabang, Barangay Maligaya, Palanan, Isabela***

In coordination with LGU Palanan thru the Municipal ENRO, the project activities commenced on April 14, 2021 conducting the site preparation activities. A total of 15,000 seedlings of Botong, Talisay and Ahogo were planted from May 17 to July 16, 2021; simultaneous with the conduct of site preparation which was done until July 14, 2021.

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Photos of some of the Botong, Agoho and Talisai seedlings produced and planted for this year's Beach Forest Rehabilitation Project.



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Some photos taken during the conduct of site preparation, planting and re-planting activities



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On August 3-7, 2021, personnel of this Office joined by counterpart from Provincial General Services Office (PGSO) conducted site inspection of the Beach Rehabilitation Project plantations. Together with the Municipal ENR Officer of Palanan and their personnel assigned in the areas, results of the inspection were as follows, to wit:

1. For the project area this year, the survival rate is estimated to be at 95% to 98%. This can be attributed to the favorable weather conditions in the area and the presence of regular personnel assigned in the plantation;



2. Sturdy seedlings area generally observed with the Botong seedlings; Talisai and Agoho seedlings showed resiliency despite sluggish growth which is common to the development characteristics of the said species;



3. Maintenance and protection activities are regularly conducted particularly replanting. Non removal of weeds is part of protection to help maintain moisture surrounding the planted seedlings.



Also, the group was able to visit and evaluate the three (3) hectares plantation established for the years 2018 to 2019. The plantation is now evidently visible as the planted seedlings have improved in height and sturdiness. Maintenance and protection activities implemented by the LGU thru MENRO worked effectively with the favorable weather conditions.



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The following photos shows the development of the 2018-2019 established and maintained Beach Forest Rehabilitation projects based on the documentations submitted by the Local Government Unit of Palanan and actual monitoring of this Office.

Plantation development at a glance of the 1-hectare Beach Forest Rehabilitation project in 2018

Photo taken: **November 2018**, 3 weeks after establishment and 2 weeks after wrath of Typhoon Rosita



Photo taken: **May 2019**, the plantation at 7 month old

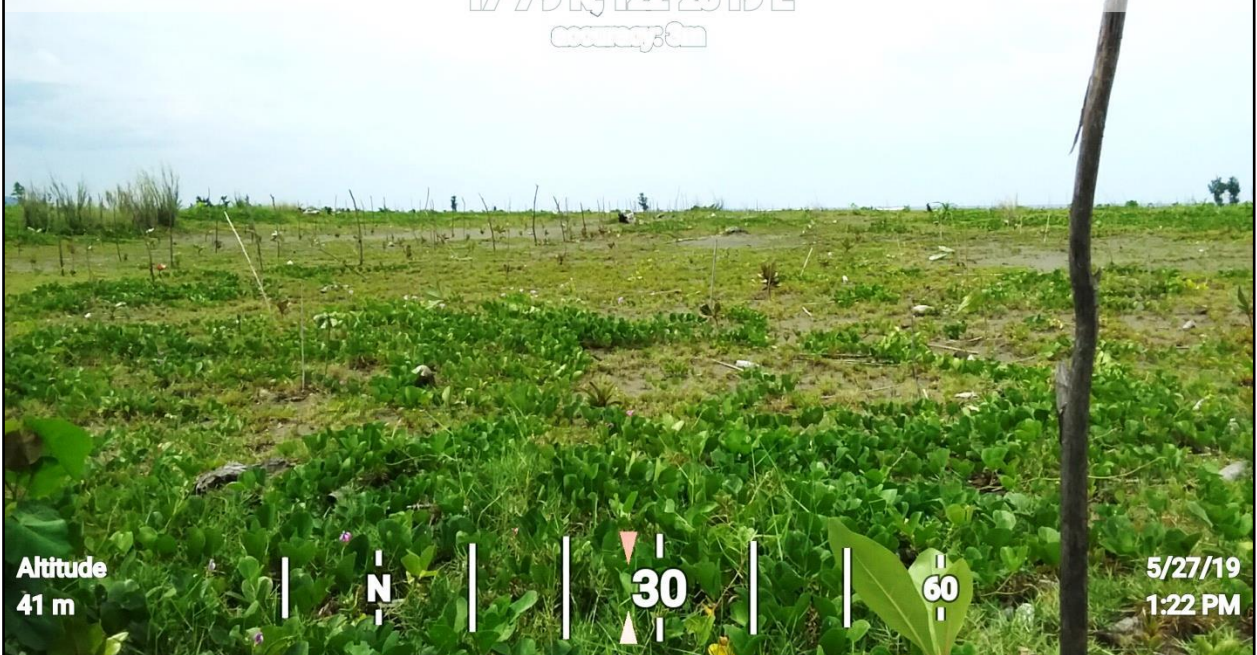


Photo taken: **June 2020**, the plantation at 2 years old



Plantation development at a glance of the 2-hectare Beach Forest Rehabilitation project in 2019



*Photo taken: **May 2019**, during the project inspection conducted by PGI-ENRO*



*Photo taken: **June 2020**, during conduct of regular monitoring of LGU-MENRO*

➤ **Rehabilitation of 4 hectares at Barangay Bicobian and Maintenance and Protection of 1.5 hectares at Barangay Dimapula, Divilacan, Isabela**

In coordination with LGU Divilacan thru the Municipal ENRO, site preparation activities were conducted from July 8-9, 2021. A total of 10,000 seedlings of Botong, Talisay and Ahogo were planted on July 14-16, 2021 covering 4 hectares. The tree planting was done by the barangay constituents led by the officials of Barangay Bicobian. The activities were supervised by the LGU thru MENRO.

Some photos taken during the conduct of site preparation and planting activities



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On August 3-7, 2021, personnel of this Office joined by counterpart from Provincial General Services Office (PGSO) conducted site inspection of the Beach Rehabilitation Project plantation at Divilacan, Isabela. Together with the Municipal ENR Officer and their personnel assigned in the areas, results of the inspection were as follows, to wit:

1. Facing the ocean, the project was implemented following Assisted Natural Regeneration approach to rehabilitate beach areas of Barangay Bicobian following the damages caused by previous typhoons that hit the Municipality.
2. In general, the team observed an estimated 80% survival rate of planted seedlings. This can be attributed to the favorable condition in the locality. However, no permanent LGU personnel assigned due to the location and distance of the project area from the mainland Divilacan;
3. The seedlings show sturdiness; nevertheless immediate replanting was recommended for the 20% mortality. Staking was suggested to easily identify the planted seedlings from the creeping weeds and other vegetation.



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Plantation development at a glance of the 1.5 hectare Beach Forest Rehabilitation project in 2019 at Barangay Dimapula, Divilacan, Isabela. Photos on the left side were taken on December 2019 during the establishment, while photos on the right were taken February 2021 submitted by LGU-MENRO.



In the continuing effort of rehabilitating the above beach forest areas thru successive establishment and assisted natural regeneration approaches, the partner LGUs continue to submit their regular monitoring reports of the plantations including previously planted areas within their territorial jurisdiction thru photo documentation. This will ensure growth and improvement of the beach forests through proper documentation of the whole project implementation.

I. Mangrove Forest Rehabilitation Project

The Province of Isabela is home to vast mangrove forests located in its coastal areas particularly in the Municipalities of Divilacan, Palanan and Maconacon. The presence of these mangrove forests serve as the natural first line of defense from the rage of said natural hazards. From 2018-2019, a total of 6 hectares Mangrove Forest Rehabilitation projects were implemented at Barangays Dipudo and Dimasalansan, Divilacan; and Barangay Reina Mercedes, Maconacon, Isabela. Maintenance and protection activities for the established projects were sustained with the supervision of the Municipal ENR Office of respective LGUs.

➤ *Maintenance and Protection of 4 hectares and Additional Rehabilitation of 6 hectares Mangrove Forests at Barangay Dimasalansan, Divilacan, Isabela*

For this year, additional 6 hectares of degraded mangrove forests was approved for rehabilitation. The identification of the area was in coordination with LGU Divilacan thru MENRO. The implementation was scheduled to be on July 2021, however due to unfavorable condition, it was rescheduled. The actual planting was conducted by personnel of LGU-MENRO and some indigenous peoples in the barangay on September 15-18, 2021. The method employed was Assisted Natural Regeneration where a total of 15,000 various *Bakawan* sps were planted in open areas in between existing mangrove flora to initiate a close vegetation cover.



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Considering the travel restrictions due to current pandemic, this Office was not able to supervise the implementation. Nevertheless, the partner LGU consistently submitted updates of the activities through photo documentation. The following photos showed the development of the 2018 established and maintained project based on the LGU submitted documentation and actual monitoring of this Office.



Photos taken on June 1019

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Photos taken on October 2019



Photos taken on March 2021



Photos taken on September 2021

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ENVIRONMENTAL MANAGEMENT DIVISION

I. MATERIAL RECOVERY FACILITY OPERATION UNDER THE PROVINCIAL ECOLOGY CENTER

A. Soil Enhancer/Conditioner Production thru Vermi-Composting

For this year, manned by three (3) Job-Order workers and supervised by one technical personnel from this division, a total of **16,995 kilograms** of soil enhancers/conditioners (term used instead of organic fertilizer since it has not yet undergone testing by FPA/DA) were produced and this included the remaining balance from 2020 at the vermi-composting facility. About **8,575 kilograms** were released to various requesting individuals and partner agencies specifically the Office of the Provincial Agriculturist responsible in maintaining the Provincial Vegetable Nursery. Further, a vegetable garden was also established and maintained at the back of the ENRO utilizing the produced soil enhancer/conditioner at the vermi-composting facility.

One of the composting facility equipment particularly the shredder that was provided by the DA is being utilized to hasten the production of compost materials for the African night crawler worms in vermicompost production. Continuous collection of organic materials is being undertaken to ensure sustained supply of compost materials as substrates (food) for the worms.

Production of Organic Fertilizer thru Vermi-Composting



B. Production of Natural Liquid Fertilizer and Pesticides

For this year, a total of **30 liters** of liquid fertilizer was produced through fermented leguminous plants which can be used to boost plant growth. Also, the workers were able to produced **1 liter** of natural liquid pesticide for maintenance of the vegetable garden to be free from insects and other pests.

Production of Organic Liquid Fertilizer out of leguminous plants



Preparation and Putting-up of Liquid Organic Pesticide at the vegetable garden



C. Production of Charcoal Briquettes

Another activity of the hired Job Orders manning the Material Recovery Facility under the Provincial Ecology Center is the production of green charcoal briquettes. One way to manage used/old cartons, office files and other paper wastes is by recycling. Through this process, these used or paper wastes were turned into charcoal briquettes wherein about **59 kilograms** of briquettes were produced.

Making of Green Charcoal Briquette



II. ECOSYSTEMS MANAGEMENT

A. Clean-up drive cum IEC activities

One of the regular activities of this Office is the conduct of clean-up drives along oceans, rivers and/or creeks and its tributaries pre-identified in coordination with LGU counterparts at the City/Municipal levels. Such activities aim not only to keep major waterways free from wastes but to create awareness and involvement of different stakeholders particularly partner agencies and communities within its vicinities in the implementation of pertinent environmental laws and regulations such as the Philippine Clean Water Act and Ecological Solid Waste Management Act of 2000.

The following were the sites where clean-up drive activities were undertaken:

1. Sitios Disipon & Lagis, Sindun Bayabo, City of Ilagan, Isabela on May 6, 2021

Some of the sitio residents participated in the activity together with ENRO Personnel which also included the ISEP-TF operatives assigned in those areas. As a result, the group was able to collect approximately **70 kilograms** of assorted waste materials and classified as follows: Biodegradables – 5 kgs; Recyclables - 38 kgs; Residual wastes - 17 kgs; and Special Wastes - 10 kgs.

After the activity, the team conducted briefing and orientation regarding the salient features of RA 9003 to create awareness among the residents and to have behavioural changes in their perspective regarding their obligations at the household level as far as waste management is concerned.

The awareness campaign activities need follow-up and evaluation to ascertain results whether a behavioural change among the residents has really turned out, but due to this pandemic situation, the team was not able to do so for documentation purposes.

Sitios Disipon & Lagis, Sindun Bayabo, City of Ilagan, Isabela



2. Jones, Echague, San Mateo and San Agustin on June 24, 2021

Along with the clean-up drive activities, the Provincial Government joins the nationwide observance of World Environment Day and celebration of Philippine Environment Month with a local theme “Sama-samang Pagkilos, Sama-samang Paghilom. Ikaw, Ako, Tayo ang Kalikasan. In line with the Environment Month Celebration, personnel from ENRO spearheaded the clean-up activities along the riverbanks of Barangay Uno, Barangay Dos, Disimpit and Palagao of Jones; Brgy. Gucab, Echague; Barangay Marasat Pequeno of San Mateo; and barangays Masaya Sur, Quimalabasa and Virgoneza of San Agustin, Isabela. It was successfully participated by the various national agencies and counterparts from the Local Government Units together with the officials and constituents of the concerned barangays.

Approximately, a total of **357 kilograms** of mixed wastes were collected during the said series of clean-up drive activities barangays.

Brgy. Uno, Dos, Disimpit and Palagao, Jones



3. Cabisera 10 (Lupigue), City of Ilagan, Isabela on November 9, 2021

In time with the celebration of National Environmental Awareness Month, the ENRO personnel, ISEP-TF and Barangay Officials conducted another clean-up drive activity along the Abuan River banks by collecting the wastes and garbage scattered by residents and individuals or group of people going for picnics and swimming in the river. Said activity aims to promote environmental awareness and concern through proper waste management among the people visiting and going for recreation within the area. The collected wastes is estimated at **5 kilograms** plastic bottles and **30 kilograms** residual wastes which were turned-over to the Barangay Kagawad on Environment for proper disposal and requested the barangay officials to put-up related signage on proper waste disposal within the entry points of the Abuan River for public awareness and strict compliance stating therein possible fines and penalties for violators.

Cabisera 10 (Lupigue), City of Ilagan, Isabela



4. Brgy. Calamagui, San Pablo, Isabela on December 4, 2021

Together with the MENRO, Barangay Officials and its constituents, another clean-up drive activity was conducted along the stretch of the Pinacanaun River Bank at Barangay Calamagui, San Pablo, Isabela. The estimated quantity of waste collected is composed of 800 kilograms of residuals wherein most of these were baby and adult diapers, 20 kilograms of recyclables and 10 kilograms of hazardous wastes. The collected wastes were disposed at the Residual Containment Area (RCA) within the Sanitary Landfill Facility (SLF) located at Annanuman, SanPablo Isabela.

After the clean-up drive activity, briefing on Executive Order NO. 33 specifying all LGUs to strictly enforce R.A. 9003 and enjoining the general public to be vigilant in reporting improper disposal of garbage, animal carcasses and other forms of

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uncleanliness to proper authorities and offenders shall be subjected to sanctions and penalties in accordance with existing laws and ordinances and some of the salient features of the Ecological Solid Waste Management Act of 2000 was conducted. About 39 participants attended the said activity.

Brgy. Calamagui, San Pablo, Isabela



B. Pollution Control Measures

For the implementation of the Carbon Sink Plantation Project intended for Climate Change Mitigation/Adaptation and Disaster Risk Reduction and Management Measures, the Provincial Government of Isabela (PGI) allotted the amount of **367,225.50** as counterpart for the provision of seedlings and fertilizer requirements as well as the needed technical assistance, monitoring and supervision. Concerned partner LGUs were responsible in the establishment, protection and maintenance activities as counterpart for at least three (3) years until the seedlings can manage to survive.

The following were the four (4) sites where the Carbon Sink Plantation Projects were established:

Location	Date of Implementation	Area (Has.)	No. of Seedlings
Pangal sur, Echague, Isabela	September 10, 2021	2.0	1,444
Trinidad, Mallig, Isabela	October 29, 2021	2.0	1,444
Dibuluan, Jones, Isabela	November 24, 2021	2.0	1,724
Capirpiriwan, Cordon, Isabela	December 3, 2021	1.0	862
TOTAL		7.0	5,474

Brgy. Pangal Sur, Echague, Isabela



Brgy. Trinidad, Mallig, Isabela



Brgy. Dibuluan, Jones, Isabela



Brgy. Capirpiriwan, Cordon, Isabela



C. Anti-Smoke Belching Campaign

In coordination with partner agencies from DENR-EMB-R02, LTO-DOTr R02 and with the participation of LGU-MENROs, the Provincial Government of Isabela thru the Environment and Natural Resources Office conducted Anti-Smoke Belching Campaign. Following the provisions of DENR-AO 2000-81 Rule XXXV: Roadside Inspection of Motor Vehicles, this activity forms part of the Provincial Government’s initiatives on climate change mitigation and adaptation program by reducing possible sources of air pollution within its territorial jurisdictions. Below were the series of anti-smoke belching campaigns conducted, to wit:

Location	Date
National Highway, Brgy. San Isidro, City of Ilagan, Isabela	March 26, 2021
National Highway, Brgy. Poblacion, San Pablo, Isabela	June 25, 2021
National Highway, Brgy. Centro 2, Mallig , Isabela	July 30, 2021
National Highway, Brgy. Oscariz, Ramon, Isabela	August 31, 2021
National Highway, Brgy. I (Poblacion), San Mateo, Isabela	October 1, 2021
National Highway, Brgy. Maligaya, Echague, Isabela	October 26, 2021

The team flagged-down diesel engine vehicles such as trucks, jeeps and SUVs passing thru the national highway and conducted random smoke belching test using the opacimeter machine. A total of **140 diesel engine vehicles** were checked and tested. Out of the total vehicles inspected/tested, **56 vehicles or 40%** did not meet the opacity standard of the smoke emitted.

All vehicles which did not meet the standard were served with citation tickets and drivers licensed were confiscated by the LTO counterpart. For the said documents to be returned to owners they are required to pay the corresponding penalty and their vehicles must have to meet the prescribed standard opacity.

National Highway, Brgy. San Isidro, City of Ilagan, Isabela



National Highway, Poblacion, San Pablo, Isabela



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National Highway, Brgy. Centro 2, Mallig, Isabela



National Highway, Brgy. I (Poblacion), San Mateo, Isabela



National Highway, Brgy. Oscariz, Ramon, Isabela



National Highway, Brgy. Maligaya, Echague, Isabela



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III. UPDATING OF THE PROVINCIAL 10-YEAR ECOLOGICAL SOLID WASTE MANAGEMENT PLAN

Section 16 of RA 9003 requires that provinces, cities and municipalities through its Local Solid Waste Management Boards (SWMBs), shall prepare their respective 10-Year Solid Waste Management Plans (SWMPs) consistent with the National Solid Waste Management Framework. All SWMPs shall be subjected to the approval of the Commission and shall be reviewed and updated every year by the Provincial, City or Municipal SWMBs. As for the Provincial 10-Year ESWM Plan, this is being updated based on the submitted individual ESWM plans of its component cities and municipalities with the aim to come-up with sustainable programs, projects and activities for plan implementation.

Below is the status of Provincial/Municipal/City ESWM Plans based from record of the Environmental Management Bureau, Regional Office 2 as of December 31, 2021, to wit:

	City/Municipality	Status
1	ALICIA	Approved Plan
2	ANGADANAN	For review by the National Solid Waste Management Commission
3	AURORA	For review by the National Solid Waste Management Commission
4	BENITO SOLIVEN	Approved Plan
5	BURGOS	Approved Plan
6	CABAGAN	Approved Plan
7	CABATUAN	Approved Plan
8	CAUAYAN CITY	For review by DENR-EMB-R02
9	CORDON	Approved Plan
10	DELFIN ALBANO	Approved Plan
11	DINAPIGUE	For review by the National Solid Waste Management Commission
12	DIVILACAN	For review by DENR-EMB-R02
13	ECHAGUE	Approved Plan
14	GAMU	For review by the National Solid Waste Management Commission
15	ILAGAN CITY	Approved Plan
16	JONES	For review by the National Solid Waste Management Commission
17	LUNA	Approved Plan
18	MACONACON	For review by DENR-EMB-R02
19	MALLIG	Approved Plan
20	NAGUILIAN	Approved Plan
21	PALANAN	For review by the National Solid Waste Management Commission
22	QUEZON	Approved Plan
23	QUIRINO	For review by the National Solid Waste Management Commission
24	RAMON	Approved Plan
25	REINA MERCEDES	For review by DENR-EMB-R02
26	ROXAS	For review by the National Solid Waste Management Commission

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27	SAN AGUSTIN	For review by the National Solid Waste Management Commission
28	SAN GUILLERMO	Approved Plan
29	SAN ISIDRO	Approved Plan
30	SAN MANUEL	Approved Plan
31	SAN MARIANO	Approved Plan
32	SAN MATEO	Approved Plan
33	SAN PABLO	For review by the National Solid Waste Management Commission
34	SANTA MARIA	For review by the National Solid Waste Management Commission
35	SANTO TOMAS	For review by DENR-EMB-R02
36	TUMAUNI	Approved Plan
	ISABELA PROVINCE	For review by the National Solid Waste Commission

Out of the thirty four (34) municipalities, nineteen (19) has been approved, one City approved; five (5) municipalities for review by DENR-EMB-R02; and eleven (11) municipalities for review by the National Solid Waste Management Commission while the Provincial 10-Year ESWM Plan is still under review by the NSWMC.

Status on the Sanitary Landfill Facility (SLF) based on the submitted updated City/Municipal 10-Year ESWM Plan

*Sanitary Landfill Facility; **Residual Containment Area; ***MOA with Cauayan City/Ramon

	City/Municipality	Status
1	ALICIA	MOA with Cauayan City
2	ANGADANAN	Using Residual Containment Area
3	AURORA	MOA with Cauayan City
4	BENITO SOLIVEN	Using Residual Containment Area
5	BURGOS	MOA with Cauayan City
6	CABAGAN	Operational Sanitary Landfill Facility
7	CABATUAN	MOA with Cauayan City
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	Using Residual Containment Area
17	LUNA	MOA with Cauayan City
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	MOA with Cauayan City
26	ROXAS	Operational Sanitary Landfill Facility
27	SAN AGUSTIN	Using Residual Containment Area
28	SAN GUILLERMO	Using Residual Containment Area
29	SAN ISIDRO	MOA with Cauayan City

30	SAN MANUEL	MOA with Cauayan City
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 SLF

Out of 36 cities/municipalities, the two (2) component cities and eleven (11) municipalities have already their SLFs; eight (8) municipalities had their MOA with Cauayan City; 14 are using RCAs; and one (1) municipality had its MOA with LGU-Ramon.

IV. MONITORING OF ESWM-RELATED PGI EOS/ORDINANCES

To strictly enforce the provisions of Executive Order No. 40-2019 and Executive Order No. 33-2020, personnel from this Office conducted random monitoring of 47 barangays in their compliance with the said EOs. Fortunately, some of them were aware while others were not yet fully aware of these provisions of the law. Intensified IEC is being recommended but due to the new normal, this needs further discussions since some of these barangays do not have internet connections for possible virtual IEC activities.

So. Lagis, Brgy. Sindon Bayabo, City of Ilagan



Brgy. Calamagui, San Pablo, Isabela



Municipality of Tumauni and Cabagan, Isabela



V. OTHER ACTIVITIES

A. Acting on a Complaint Regarding Foul Odor from a Poultry Farm

This has reference to the verbal complaint received from the Provincial Prosecutor, Atty. Dela Rosa of Magsaysay, Naguilian, Isabela regarding the occurrence of flies coming from a poultry owned by a certain Mr. Segundo V. Acosta of the same address. Acting on the matter, the ENR Officer gave his verbal instruction for the EMD staff to coordinate with concerned entities. In compliance thereof, with representatives from DENR-EMB Provincial Management Office, DENR-CENRO Naguilian, Provincial Veterinary Office and the MAO/MENRO of Naguilian conducted on-site inspection/investigation of the alleged pollution problem raised by the complainant. But prior to the investigation, the MAO and MENRO Designate mentioned that said issue was already acted upon by the Municipal Mayor thru the Sanitary Inspector.

The following were the findings and observations, to wit:

1. The manager/caretaker, Mr. Segundo V. Acosta, brother of the owner/ Mr. Quiterio V. Acosta, provided the details regarding the poultry project. The poultry project is named Horsense Farm with a contract at San Miguel Corporation. The project has an area of 1.3285 hectares and is located at Barangay Magsaysay, Naguilian, Isabela. It has two (2) buildings with a capacity of 34, 000 heads per unit, a total of 68,000 heads

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harvestable for a period of 28-32 days at an average weight of 1.5 kilograms each. It became operational; by 2008.

2. The Project was granted an Environmental Compliance Certificate (ECC) with reference number I-L-ECC-2006-0231-95 by the DENR-EMB Region 02 dated December 14, 2006.
3. No discharge permit has been applied yet by the project owner. Although, it was observed that they have installed proper drainage and sewerage system. They have also established mortality pit. But during an instance where almost 3,000 chickens died due to heat stroke, the bodies were just buried inside their compound using a backhoe.
4. With regard to problem raised, according to the caretaker/manager, their last harvest was on June 27, 2021. During the actual inspection of the team dispatched for this purpose, it was observed that there were no flies seen in the area except on the stockpiles of chicken dung. No foul odor smelled either. There were on-going cleaning activities around the vicinities being done during the inspection probably due to the early action taken by the concerned LGU.



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MINERAL RESOURCES DEVELOPMENT DIVISION

I. MONITORING OF MINERAL/QUARRY OPERATIONS

A. Processing of Permit Applications

- **Commercial Sand and Gravel (CSAG)** – This year the office received Twenty Eight (28) CSAG Permit Applications from the different quarry locations within the province with corresponding administrative/processing fees collected by the Provincial Treasurer’s Office amounting to Three Hundred Seventeen Thousand Two Hundred Forty (317,240.00) pesos only. Locations of approved application for CSAG permits are illustrated in the following map (see Figure 1). Out of the total 28 applications, twenty four (24) permits were approved.

Table 1. List of CSAG Applications received for CY 2021

	Name of Applicants	QUARRY SITE	Area
1	Glenn Moore Angelo E. Caramancion	Disimpit, Jones, Isabela	4.99
2	Edwin P. Uy	Banquero, Reina Mercedes, Isabela	5.00
3	Rosalino U. Urandayan, Jr.	San Ignacio, City of Ilagan, Isabela	4.99
4	Western Pinacanauan Development Coop.	Alinguigan 2 nd , City of Ilagan, Isabela	5.00
5	A1&A2 Multi-Purpose Cooperative	Alinguigan 1 st and 2 nd , City of Ilagan, Isabela	5.00
6	Flordeliza M. Balisi	Baculud, City fo Ilagan, Isabela	5.00
7	Carlofel M. Fontiveros	San Placido, Roxas, Isabela	5.00
8	Rofelin M. Dela Cruz	Sinaoangan Sur, San Agustin, Isa.	5.00
9	San Jose Calamagui Gravel & Sand, Inc.	Calamagui East, Sta. Maria, Isabela	5.00
10	Reynaldo G. Atuan, Jr.	San Rafael East, Sta. Maria, Isabela	5.00
11	Engr. Elvin M. Ramos	Casibarag Norte, Cabagan, Isabela	5.00
12	Accelerated Metal Technology and Construction, Inc. rep. by Engr. Antonio M. Tumolva	Guibang & Dist. II, Gamu, Isabela	4.98
13	Carlito M. Uy	Lenzon, Gamu, Isabela	5.00
14	Carlos Clyde Uy. Chan	Upi, Gamu, Isabela	5.00
15	Analyn F. Acosta	Culing Centro, Cabatuan, Isa.	4.91
16	Gelacio S. Carlos, Jr.	Rang-Ay, Cabatuan, Isabela	5.00
17	Flow of Pari-Ir Development Coop. by Norlando T. Manibog	Saranay, Cabatuan, Isabela	5.00
18	John Lorenz O. Bautista	Carpintero, Tumauni, Isabela	5.00
19	Nicko Ralph O. Bautista	Antagan 2 nd , Tumauni, Isa.	5.00

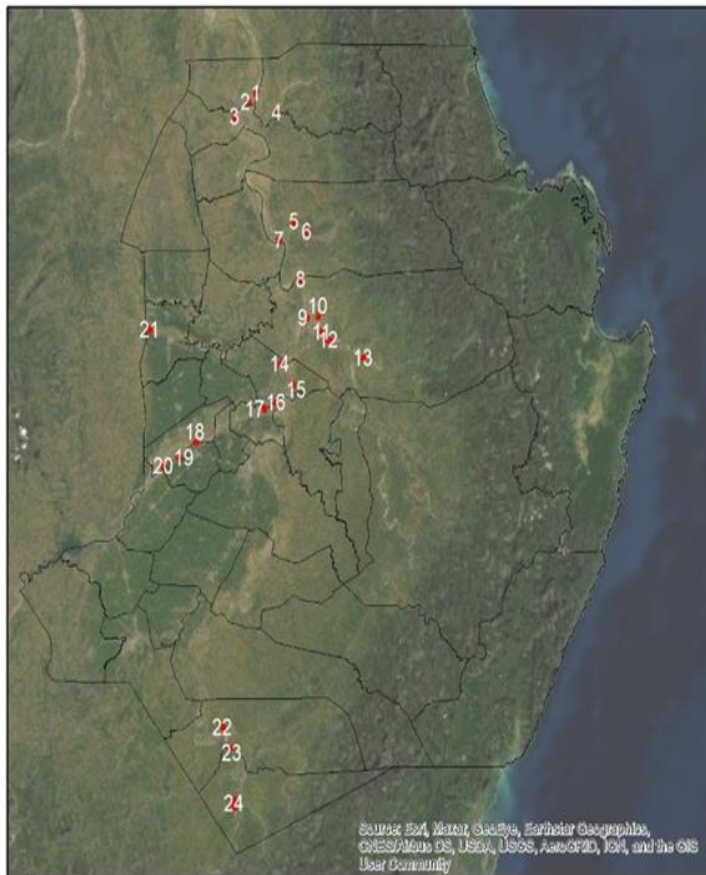
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20	Jonathan P. Uy	Sisim Abajo, Tumauni, Isabela	4.99
21	Dolly F. Ariola	Calamagui 1 st , City of Ilagan, Isabela	2.50
22	Jessie T. Bangloy	Nemmatan, San Agustin, Isa.	3.80
23	Vedasto D. Villanueva	Cabisera 22, City of Ilagan, Isabela	5.00
24.	Benito B. Duldulao, Jr.	Annanuman, San Pablo, Isa.	5.00
25.	Lapogan Multi Purpose Cooperative	Lapogan, Tumauni,, Isabela	5.00
26.	Cinderella M. Gatan	Casibarag Sur, Cabagan, Isa.	5.00
27.	Justito S. Jimenez, Jr.	Fugu Abajo, Tumauni, Isabela	5.00
28.	Alfredo S. Remigio	Sinamar Norte, San Mateo, Isabela	3.10

Table 2. List of Approved CSAG permit for CY 2021

Name of Applicants		QUARRY SITE
1	Glenn Moore Angelo E. Caramancion	Disimpit, Jones, Isabela
2	Edwin P. Uy	Banquero, Reina Mercedes, Isa.
3	Rosalino U. Urandayan, Jr.	San Ignacio, City of Ilagan, Isabela
4	Western Pinacanauan Development Coop.	Alinguigan 2 nd , City of Ilagan, Isa.
5	A1&A2 Multi-Purpose Cooperative	Alinguigan 1 st and 2 nd , City of Ilagan, Isabela
6	Flordeliza M. Balisi	Baculud, City fo Ilagan, Isabela
7	Carlofel M. Fontiveros	San Placido, Roxas, Isabela
8	Rofelin M. Dela Cruz	SinaoanganSur, San Agustin, Isabela
9	San Jose Calamagui Gravel & Sand, Inc.	Calamagui East, Sta. Maria, Isa.
10	Reynaldo G. Atuan, Jr.	San Rafael East, Sta. Maria, Isa.
11	Engr. Elvin M. Ramos	Casibarag Norte, Cabagan, Isabela
12	Accelerated Metal Technology and Construction, Inc. rep. by Engr. Antonio M. Tumolva	Guibang & Dist. II, Gamu, Isabela
13	Carlito M. Uy	Lenzon, Gamu, Isabela
14	Carlos Clyde Uy. Chan	Upi, Gamu, Isabela
15	Analyn F. Acosta	Culing Centro, Cabatuan, Isabela
16	Gelacio S. Carlos, Jr.	Rang-Ay, Cabatuan, Isabela
17	Flow of Pari-Ir Development Coop. by Norlando T. Manibog	Saranay, Cabatuan, Isabela
18	John Lorenz O. Bautista	Carpintero, Tumauni, Isabela
19	Nicko Ralph O. Bautista	Antagan 2 nd , Tumauni, Isabela
20	Jonathan P. Uy	Sisim Abajo, Tumauni, Isabela
21	Dolly F. Ariola	Calamagui 1 st , City of Ilagan, Isa.
22	Jessie T. Bangloy	Nemmatan, San Agustin, Isabela
23	Vedasto D. Villanueva	Cabisera 22, City of Ilagan, Isabela
24.	Benito B. Duldulao, Jr.	Annanuman, San Pablo, Isabela

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Location Map of Approved CSAG Permits

Environment and Natural Resources Office (ENRO)
Provincial Government of Isabela

Number	Permittee	Location
1	San Jose Calamagui Gravel & Sand Inc.	Calamagui East, Sta. Maria
2	Reynaldo G. Atuan, Jr.	San Rafael East, Sta. Maria
3	Engr. Elvin R. Ramos	Casibarag Norte, Cabagan
4	Benito B. Duldulao, Jr.	Annanuman, San Pablo
5	Jonathan P. Uy	Sisim Abajo, Tumauni
6	Nicko Ralph O. Bautista	Antagan 2nd, Tumauni
7	John Lorenz O. Bautista	Carpintero, Tumauni
8	Rosalino U. Urandayan, Jr.	San Ignacio, City of Ilagan
9	Dolly F. Ariola	Calamagui 1st, City of Ilagan
10	Flordeliza M. Balisi	Baculud, City of Ilagan
11	Western Pinacanauan Development Coop.	Alinguigan 2nd, City of Ilagan
12	A1 & A2 Multi-Purpose Cooperative	Alinguigan 1&2, City of Ilagan
13	Vedasto D. Villanueva	Cabisera 22, City of Ilagan
14	Carlos Clyde U. Chan	Upi, Gamu
15	Accelerated Metal Technology and Construction, Inc.	Guibang, Gamu
16	Carlito M. Uy	Lenson, Reina Mercedes
17	Edwin P. Uy	Banquero, Reina Mercedes
18	Flow of Pari-ir Dev't Cooperative c/o Norlandi T. Manibog	Saranay, Cabatuan
19	Analyn F. Acosta	Culing Centro, Cabatuan
20	Gelacio S. Carlos, Jr.	Rang-Ay, Cabatuan
21	Carlofel M. Fontiveros	San Placido, Roxas
22	Glenn Moore Angelo E. Caramancion	Disimpit, Jones
23	Jessi T. Bangloy	Nemmatan, San Agustin
24	Rofelin F. Dela Cruz	Sinaoangan Sur, San Agustin

Figure 1. List of approved CSAG permits and their location.

- **Accreditation of Haulers/Dealers/Traders and Retailers** – This year a total of 415 haulers/dealers/traders and retailers in trading mineral products and by-products were accredited with corresponding fees collected by the Provincial Treasurer’s Office amounting to One Million Forty Five Thousand Eight Hundred (Php1,045,800.00) pesos and One Hundred Eighty Eight Thousand Three Hundred (Php188,300.00) pesos for Accreditation Sticker.

Table 3. List of Accredited Haulers/Dealers/Traders and Retailers CY 2021

No.	NAME	ADDRESS	Number of Units
1	INES S. CABACCAN	San Isidro, City of Ilagan, Isabela	8
2	ROLANDO L. TUGADE	Baligatan, City of Ilagan, Isabela	1
3	CMG GRAVEL AND SAND rep. by CINDERELLA M. GATAN	Casibarag Sur, Cabagan, Isabela	7
4	JERRY M. PAGBILAO	La Paz, Sagunday, Quirino	1
5	MARVIN A. REOSIA	San Andres, City of Ilagan, Isabela	5
6	VB MANUBAY CONSTRUCTION by VERONICA MANUBAY	Rizal, Santiago City, isabela	14
7	RJG HARDWARE rep. by RAFFY JOHN O. GOMEZ	Marana 3rd, City of Ilagan, Isabela	2
8	GABA CONCRETE HOLLOW BLOCKS Rep. by JOMAR GABA	Centro, San Antonio, City of Ilagan, Isabela	2
9	HANIEL BUYING STATION AND AGRICULTURAL SUPPLY rep. by EDWARD FRANCIS Y. LABIANO	San Antonio, City of Ilagan, Isabela	4

ENVIRONMENT AND NATURAL RESOURCES OFFICE

10	A. DE GUIA CONSTRUCTION & DEVELOPMENT CORP. rep. by ARMANDO . DE GUIA	Magsaysay, Alicia, Isabela	47
11	ANTONIO B. GANGAN	Alinguigan 2nd, City of Ilagan, Isabela	3
12	DANYSONS CONSTRUCTION & DEVELOPMENT CORP. rep. by DAN A. DULIG	Prenza District I, Cauayan City, Isabela	36
13	ANTONIO SAMANIEGO, JR.	Calaoacan, Santiago City, Isabela	1
14	RJ ANCHETA CONCRETE PRODUCTS & ENTERPRISES rep. by ROLITO J. ANCHETA	Mangandingay, Cabarroguiz, Quirino	5
15	RVG MERCHANDISING rep. by ROMEO C. GOMEZ	Marana 3rd, City of Ilagan, Isabela	5
16	HARBOR MASTER rep. by JENETTE G. BURAGA	Alinguigan 2nd, City of Ilagan, Isabela	3
17	ROSALINO URANDAYAN SAND AND GRAVEL rep. by ROSALINO A. URANDAYAN, JR.	San Ignacio, City of Ilagan, Isabela	4
18	NICOLAS J. BURGOS	Barangay 1, Jones, Isabela	1
19	FERDITO A. BUGUINA	Lullutan, City of Ilagan, Isabela	2
20	BRAVO CONSTRUCTION & ENGINEERING SERVICES rep. by VILMER V. BRAVO	Nagbukel. San Isidro, Isabela	17
21	JUNE T. YADAO	Osmena, City of Ilagan, Isabela	1
22	ROMMEL A. PADILLA	Mapalad, San Agustin, Isabela	5
23	GAUDENCIO REYES, JR.	Magsaysay, Naguilian, Isabela	9
24	JWU CONSTRUCTION & SUPPLY rep. by JOHN WINSTON D. UY	Rizal, Roxas, Isabela	8
25	GO EIGHT CONSTRUCTION CORPORATION rep. by PAULA CRISTINA G. ALMALVEZ	Zone 1, San Mariano, Isabela	8
26	MARIA LOIDA C. CRUZ	Minanga, San Mariano, Isabela	6
27	RONALYN M. TELAN	Zone 1, San Mariano, Isabela	2
28	MARK KEVIN V. BLANDO	Zone 3, San Mariano, Isabela	1
29	NESTOR BAYENG	Zone 2, San Mariano, Isabela	1
30	IMRED ASIA CONSTRUCTION & SUPPLY rep. by DOMINIC ALMORADIE	Rizal, Santiago City, Isabela	2
31	FURAO SAND AND GRAVEL TRADING rep. by EDWIN P. UY	Banquero, Reina Mercedes, Isabela	12
32	ALMAZAN HEAVY EQUIPMENT RENTALS rep. by ROEL ALMAZAN	Manano, Mallig, Isabela	10
33	619 BUILDERS CONSTRUCTION CORPORATION rep. by FERNANDO G. MAGNO	Nueva Era, San Manuel, Isabela	21
34	DIONISIO E. ESCOBAR	Cabisera 5, City of Ilagan, Isabela	1
35	SLL GRAVEL AND SAND	Ugad, Cabagan, Isabela	12

ENVIRONMENT AND NATURAL RESOURCES OFFICE

	rep. by STEPHEN L. LIM		
36	VBP GRAVEL AND SAND rep. by VICENTE B. PATA	Baluarte, Santiago City, Isabela	2
37	RGA GRAVEL AND SAND rep. by REYNALDO G. ATUAN	San Rafael East, Sta. Maria, Isabela	10
38	D & C CONSTRUCTION SUPPLIES AND INCORPORATED rep. by DANNY S. DE LEON	Bugallon Proper, Ramon, Isabela	14
39	JVP HARDWARE AND GENERAL MERCHANDISE rep. by JESTER C. PUA	Magsaysay, Alicia, Isabela	5
40	RSKM CONSTRUCTION SERVICES rep. by RICHARD STEPHENSUN L. ALMIRON	Camaal, Quirino, Isabela	3
41	AF MANUEL CONSTRUCTION rep. by AUREA S. MANUEL	District II, San Mateo, Isabela	9
42	MGC CIVIL ENGINEERING CONSTRUCTION rep. by MELBA G. CASTILLO	Barangay 4, San Mateo, Isabela	11
43	LYNIE O. PANGANIBAN	Centro West, Santiago City, Isabela	1
44	VICAR ENTERPRISES rep. by VIDA IRENNI P. LARA	District I, Cauayan City, Isabela	6
45	RC BALAYAN MACHINE SHOP & GENERAL MERCHANDISE rep. by RAMON C. BALAYAN	Calamagui 1st, City of Ilagan, Isabela	1
46	BYAN MERCHANDISE rep. by BON ING V. PUA	Magsaysay, Alicia, Isabela	7
47	MAGDALENA A. AREOLA	Cabisera 9-11, City of Ilagan, Isabela	1
48	EA CONCRETE PRODUCTS MANUFACTURING rep. by MARICAR L. ASUNCION	Morado, City of Ilagan, Isabela	1
49	ABRAHAM DANGGO	Capellan, City of Ilagan, Isabela	3
50	ROZEN MAMARIL	Aurora, Alicia, Isabela	24
51	FOUR C MARKETING rep. by CHARLIE W. GUILLERMO	Garit Norte, Echague, Isabela	1
52	PRECIOUS AJ MARKETING & GENERAL MERCHANDISE rep. by ALBERT S. GALIZA	Culalabat, Cauayan City, Isabela	7
53	WESLEY P. SALES	Centro 3, Luna, Isabela	4
54	REYNALDO C. EDRADA	Cabisera 2, City of Ilagan, Isabela	3
55	ANGELITO S. YU	Tangcul, City of Ilagan, Isabela	4
56	LUZVIMINDA A. GATAN	Lullutan, City of Ilagan, Isabela	1
57	ESTEBAN HARDWARE rep. by MARY ANN L. ESTEBAN	Ambatali, Ramon, Isabela	2
58	ELIAS R. PAMBID	Baligatan, City of Ilagan, Isabela	1
59	THREE A'S HARDWARE rep. by MARNELLIE A. GANNABAN	Ugad, Cabagan, Isabela	8
60	FDS SAND & GRAVEL AND HARDWARE rep. by FEDERICO D. SAMUS	Bangad, Sta. Maria, Isabela	6

ENVIRONMENT AND NATURAL RESOURCES OFFICE

61	ORLANDO BALISI	Baculud, City of Ilagan, Isabela	1
62	LC TALON CONSTRUCTION rep. by LEONARDO B. TALON	Sampaloc, Cabatuan, Isabela	9
63	DIONEL T. JULIAN	Napaliong, Jones, Isabela	1
64	FRANCIS MART R. APOLINARIO	Minuri, Jones, isabela	3
65	MABUHAY CONCRETE PRODUCTS rep. by BELLY M. RAMOS	Plaridel, Santiago City, Isabela	6
66	EDWIN R. PASION	Minuri, Jones, Isabela	3
67	JOEL C. MAXIMO	Minuri, Jones, Isabela	3
68	JHONEMART M. CASCAYAN	Minuri, Jones, Isabela	4
69	REY P. MANALANSAN	Papan Este, Jones, Isabela	2
70	JIMREX P. ANDRES	Dabubu Grande, San Agustin, Isabela	4
71	RODEL S. CABANSAG	Sta. Isabel Sur, City of Ilagan, Isabela	3
72	GMA GRAVEL AND SAND rep. by GLENN MOORE ANGELO E. CARAMANCION	Diarao, Jones, Isabela	15
73	HENRY ALLAN R. MACARILAY	Disimpit, Jones, Isabela	4.
74	OSCAR S. BALBIN	Lapogan, Tumauni, Isabela	2
75	NOEL B. NAVALTA	San Placido, Roxas, Isabela	11
76	RAMUEL C. MIRANDA	Alinguigan 2nd, City of Ilagan, Isabela	2
77	ROBERT C. TURQUEZA	Pasa, City of Ilagan, Isabela	1
78	MARILYN C. MATA	Aggassian, City of Ilagan, Isabela	1
79	PRECY D. TAN	Calao East, Santiago City, Isabela	12
80	JOHN A. SUMANG	Barangay 2, Jones, Isabela	5
81	EDWIN ABALOS	Bugallon Proper, Ramon, Isabela	1
82	WILFREDO PAR, JR.	Cabannung 2nd, City of Ilagan, Isabela	2
83	RODELYN C. RODRIGUEZ	Ugac Norte, Tuguegarao City, Cagayan	2
84	ENGR. ELVIN RAMOS	Casibarag Norte, Cabagan, Isabela	7
85	FRAGERR CONSTRUCTION rep. by ALLAN C. MALAYAO	Poblacion, San Pablo, Isabela	13
86	JOEY CHUA	Ballacayu, San Pablo, Isabela	2
87	SUNJEN ENTERPRISES GRAVEL & SAND rep. by GIRLYN GIRIBESE	San Juan, Alfonso Lista, Ifugao	5
88	RHH CONSTRUCTION AND REALTY DEVELOPMENT INC. rep. by ROSITA B. CHUA	Ambatali, Ramon, Isabela	6
89	ROLAND C. CABACUNGAN	Old Centro Proper, San Mateo, Isabela	1
90	GIANCARLO M. LAYUGAN	Zone 1, San Mariano, Isabela	5
91	MARIVIC B. SUMISIM	Zone 3, San Mariano, Isabela	4
92	LEONILA F. GO	Zone 3, San Mariano, Isabela	2
93	JORGIE B. PASCARAN	Zone 3, San Mariano, Isabela	4
94	J & C LUMBER & HARDWARE rep. by CANDELARIA D. SO	Plaridel, Santiago City, Isabela	1
95	FEDERICO VILLENA	Villa Imelda, City of Ilagan, Isabela	3

ENVIRONMENT AND NATURAL RESOURCES OFFICE

96	JAB GRAVEL SAND AND IRON WORKS rep. by JIMMY BALAYAN	Calamagui 1st, City of Ilagan, Isabela	5
97	UY'S HARDWARE AND GENERAL MERCHANDISE rep. by JONATHAN PUA UY	Lingaling, Tumauini, Isabela	5
98	CAMBERWELL CONSTRUCTION & SUPPLIES rep. by GRACE M. RODRIGUEZ	Magsaysay, Naguilian, Isabela	6
99	JUANITA L. BARTOLOME	Marana 1st, City of Ilagan, Isabela	1
100	CMD CONSTRUCTION AND ENGINEERING SERVICES rep. by MARIANO G. DANCEL	Calao East, Santiago City, Isabela	4
101	JC PALOMO CONSTRUCTION & CONSTRUCTION SUPPLY rep. by JESUS C. PALOMO	Rizal, Santiago City, Isabela	13
102	TJBC BUILDERS rep. by TEODORO M. DE JESUS	Barangay 2, Jones, Isabela	6
103	LORELEI S. RANJO	Lullutan, City of Ilagan, Isabela	2
104	JAS BUILDERS AND WELDING SHOP rep. by JOSELITA A. SUYAT	Barangay 1, Jones, Isabela	2
105	JOANA A. MADRID	Baligatan, City of Ilagan, Isabela	1
106	RICHESJON CONSTRUCTION SUPPLY rep. by JONATHAN D. NAVALTA	Munoz East, Roxas, Isabela	8
107	JOEY S. BAUTISTA	San Mateo, Tumauini, Isabela	12
108	ELMILY S. SANTOS	Guinatan, City of Ilagan, Isabela	3
109	NTL BUILDERS & DEVELOPERS rep. by NOEL T. LIM	Dipintin, Maddela, Quirino	6
110	GELOGICA ENTERPRISES rep. by NELSON P. CHU	Barangay 2, Jones, Isabela	2
111	CLARITY E. AGOR	Calamagui 2nd, City of Ilagan, Isabela	8
112	JOHN WARREN C. MEDINA	Concepcion, Luna, Isabela	7
113	FERNANDO L. MANGABAT	Centro 2, Luna, Isabela	10
114	JERSON SAPONGAY	Fuyo, City of Ilagan, Isabela	1
115	JB ENTERPRISES Rep. by JERALD RAYMOND MARI BIGORNIA	Mansibang, Naguilian, Isabela	16
116	JGG HARDWARE & GENERAL MERCHANDISE rep. by EXPEDITO GUMIRAN, JR.	Marana 3rd, City of Ilagan, Isabela	4
117	DAN LAZARO CONSTRUCTION rep. by DAN CARLO MAQUINAD	District 3, Gamu, Isabela	1
118	HANDY MANNY CONSTRUCTION rep. by MANOLITO BAUTISTA	Centro East, Santiago City, Isabela	2
119	DEAN'S GRAVEL & SAND rep. by PRINCE DEAN CHARLES CLARK	Alibagu, City of Ilagan, Isabela	1

ENVIRONMENT AND NATURAL RESOURCES OFFICE

120	ALLIED S3 HARDWARE AND CONSTRUCTION SUPPLY rep. by BERNARD T. BUNAGAN	Calamagui 1st, City of Ilagan, Isabela	1
121	ALGO CONSTRUCTION rep. by ALLAN JOHN GOMEZ	Diamantino, Jones, Isabela	5
122	EGB CONSTRUCTION	Cansan, Cabagan, Isabela	2
123	DANILO A. MARAMAG	Calamagui 1st, City of Ilagan, Isabela	1
124	CAPITAL CONSTRUCTION rep. by ROBERT M. RAMOS	Barangay 1, San Mateo, Isabela	5
125	R AND R HARDWARE AND CONSTRUCTION SUPPLIES rep. by REYNOLD M. UY	Culalabo Del Norte, Burgos, Isabela	4
126	BB GENERAL MERCHANDISE rep. by JUN P. BULOS	Raniag, Burgos, Isabela	10
127	HOLY TRINITY AGRO-FORESTRY MULTI-PURPOSE COOPERATIVE rep. by RICHARD M. AGCAOILI	Rang-ayan, City of Ilagan, Isabela	1
128	IJH-GRAVEL AND SAND rep. by JAMES P. PUA	San Pedro, Tumauni, Isabela	8
129	LARRY A. CASTILLO	Rizaluna, Cordon, Isabela	1
130	TALANA GRAVEL AND SAND rep. by GERRY TALANA	Lullutan, City of Ilagan, Isabela	1
131	JOHN M. SAO	Minuri, Jones, Isabela	3
132	S PADACA GENERAL MERCHANDISE rep. by SUSAN U. PADACA	Masaya Centro, San Agustin, Isabela	2
133	FELIX C. LAURIANO	Minuri, Jones, Isabela	3
134	ALLAN C. CARABACCAN	Minuri, Jones, Isabela	4
135	EDISON M. PASCUAL	Fugo, Jones, Isabela	7
136	ROCKTOWN HARDWARE rep. by HENRY COSTALES, JR.	Centro, Ramon, Isabela	2
137	JDMT CONCRETE HOLLOWBLOCKS, GRAVEL & SAND rep. by JOEL TAMAYO	Alibagu, City of Ilagan, Isabela	1
138	MILA VIC TRUCKING SERVICES rep. by JOSELITO OBRA	Raniag, Ramon, Isabela	7
139	DIODEL RBU BUYING STATION rep. by RONALD B. UY	Cubag, Cabagan, Isabela	5
140	JOSE B. GRUMAJE, JR.	Cubag, Cabagan, Isabela	6
141	ABR HOLLOWBLOCKS rep. by ALADIN B. REYES	Usol, Jones, Isabela	1
142	ROMEO P. CABAIRIO	Tangcul, City of Ilagan, Isabela	1
143	LIMESTONE CONSTRUCTION & DEVELOPMENT CORPORATION rep. by LLOYD ANTHONY S. LIM	Centro East, Santiago City, Isabela	2
144	RM CONSTRUCTION MATERIALS rep. by ARLENE P. CHY	Linomot, Jones, Isabela	1
145	FJ ALBANO'S HARDWARE rep. by JUAN W. ALBANO	Ugad, Cabagan, Isabela	6

ENVIRONMENT AND NATURAL RESOURCES OFFICE

146	NITA'S HARDWARE rep. by NENITA B. UY	San Mateo, Tumauni, Isabela	16
147	DA CADELINA CONSTRUCTION rep. by EVELYN CADELINA	Daramuangan Sur, San Mateo, Isabela	21
148	CASAN CONSTRUCTION & TRADING rep. by NATALIA DE VERA OCSAN	Salvador, Santiago City, Isabela	3
149	LUZVIMINDA GENERAL MERCHANDISE rep. by LUZVIMINDA GACUYUD	Centro 2, San Guillermo, Isabela	2
150	EDITHA G. NILO	Minanga, Angadanan, Isabela	1
151	ACP CONSTRUCTION & DEVELOPMENT rep. by ALLAN C. PANGANIBAN	Gucab, Echague, Isabela	4
152	THREE Y CONSTRUCTION rep. by JEANNE PINEDA	Maligaya, Echague, Isabela	5
153	JOMAR GRAVEL AND SAND rep. by JOMAR L. DELA FUENTE	Kalabaza, Aurora, Isabela	1
154	LUCKY GRAINS RICE MILL rep. by WILLIAM UY	Sta. Rita, Aurora, Isabela	4
155	JASON S. BERNABE	Sta. Rita, Aurora, Isabela	3
156	EUFEMIO S. RAMOS, JR.	District II, San Manuel, Isabela	3
157	CLJC ENTERPRISES rep. by APOLINARION G. DATU	San Pablo, Aurora, Isabela	14
158	TEMESTOCLES A. SANTOS	District I, San Manuel, Isabela	4
159	VICKY'S WOODCRAFT rep. by VICTORIA MADDWIN	Alinguigan 2nd, City of Ilagan, Isabela	1
160	IVAN PRADA FRAIRE	Marana 1st, City of Ilagan, Isabela	5
161	PAUL RITCHIE B. PADILLA	Sinsayon, Santiago City, Isabela	1
162	LUCKY 21 CIVIL ENGINEERING CONSTRUCTION rep. by EDMUND CHAN BASCOS	Batal, Santiago City, Isabela	14
163	ROBERT CONDE	Oscariz, Ramon, Isabela	8
164	FERDINAND P. TAN	Alibagu, City of Ilagan, Isabela	1
165	WENDY KIM GRAVEL AND SAND HOLLOWBLOCKS MAKER rep. by ERNANDO T. LODIVICO	Mangaram, City of Ilagan, Isabela	1
166	VILMARIC SALVADOR	Cabisera 7, City of Ilagan, Isabela	1
167	NOEL R. LACAR	Lalog I, Luna, Isabela	2
168	AMT CONSTRUCTION SUPPLIES rep. by MINELLI MARIE TIO	Dadap, Luna, Isabela	8
169	KERNEL GENERAL MERCHANDISE rep. by ROWENA DELA PENA	Rizal, Alicia, Isabela	1
170	ES SAND AND GRAVEL SUPPLIES rep. by ENGLEBERT PALINES	Rizal, Alicia, Isabela	8
171	ALFREDO T. VINARAO	Catabayungan, Cabagan, Isabela	6
172	EFREN SANTIAGO	San Isidro, City of Ilagan, Isabela	3

ENVIRONMENT AND NATURAL RESOURCES OFFICE

173	F. TACCAD GRAVEL AND SAND rep. by FERDINAND P. TACCAD	Maligaya, Tumauni, Isabela	4
174	LEONARDO O. PENA III	Old Centro Proper, San Mateo, Isabela	1
175	FISCARO HARDWARE AND TRADING rep. by VERONICA FISCARO	Barangay 3, San Mateo, Isabela	3
176	CD'S HARDWARE AND CONSTRUCTION SUPPLIES rep. by CZARINA F. SIMANERO	San Jose, Santiago City, Isabela	2
177	RC DOMINGO CONSTRUCTION & GENERAL MERCHANDISE rep. by ROGER DOMINGO	Baligatan, City of Ilagan, Isabela	2
178	EAF SAND AND GRAVEL TRADING rep. by IRENE F. ANDRES	Batal, Santiago City, Isabela	8
179	CR DOMINGO CONSTRUCTION AND POWER DEVELOPMENT, INC. rep. by ROLANDO Y. DOMINGO	Barangay 3, San Mateo, Isabela	15
180	JOREN'S CONCRETE PRODUCTS TRADING rep. by ANTHONY FLORES CASER	Rizal, Santiago City, Isabela	2
181	ALCHIQUI ENTERPRISES rep. by CHIQUI HERNANDEZ	Alinguigan 2nd, City of Ilagan, Isabela	1
182	RAL MINI HARDWARE & ELECTRICAL SUPPLY rep. by ROBERT S. LIM	Oscariz, Ramon, Isabela	1
183	ANTONIO S. YU, JR.	San Isidro, City of Ilagan, Isabela	3
184	MARLO BANGUI	Rizaluna, Cordon, Isabela	1
185	ALCANTARA'S HARDWARE rep. by PEPITO L. ALCANTARA	Antonino, Alicia, Isabela	18
186	EGBERT M. CABAUTAN	Casibarag Sur, Cabagan, Isabela	6
187	CHATIE N. MIRO	Poblacion, San Pablo, Isabela	6
188	SAN JOSE CALAMAGUI GRAVEL & SAND rep. by ROLANDO B. GATAN	Calamagui East, Sta. Maria, Isabela	10
189	MAC ARTHUR CADIENTE	Masaya Norte, San Agustin, Isabela	4
190	JULIUS V. GURAY	Sinamar Norte, San Mateo, Isabela	2
191	ROBERT P. UY	Masaya Sur, San Agustin, Isabela	3
192	HAYDIE A. SANCHEZ	Centro, San Guillermo, Isabela	3
193	JOE MAR N. ADRIANO	Barangay 2, Jones, Isabela	5
194	EDUARDO B. ADRIANO	Virgoneza, San Agustin, Isabela	6
195	WBS CONSTRUCTION AND CONSTRUCTION SUPPLY rep. by WINDER B. SIBAEN	Batal, Santiago City, Isabela	9
196	ALPHA II CONSTRUCTION rep. by ARTEMIO A. TASANI, JR.	Gayong, Cordon, Isabela	2
197	ANTONIO C. MANALIGOD III	Osmeña, City of Ilagan, Isabela	1

ENVIRONMENT AND NATURAL RESOURCES OFFICE

198	A-9 COMMERCIAL rep. by JOSEPH C. UY	Calamagui 2nd, City of Ilagan, Isabela	4
199	JOSON GRAVEL & SAND rep. by MARIO JOSON	Rizal, Santiago City, Isabela	2
200	TOP ART GRAVEL AND SAND rep. by DOMINADOR L. GARAY	San Andres, Santiago, City, Isabela	5
201	RJC CASTRO HARDWARE rep. by JOAN V. CASTRO	Nuesa, Roxas, Isabela	10
202	GODOFREDO MACARILAY	Barangay I, Jones, Isabela	2
203	ROCK SAND STONE MASTER BUILDERS CORP. rep. by ROGELIO D. AZARCON	Saranay, Cabatuan, Isabela	15
204	REYDEL GENERAL MERCHANDISE rep. by REYNOLD B. DEMEDEL	Magsaysay, Alicia, Isabela	5
205	AMD HARDWARE AND GENERAL MERCHANDISE rep. by ARA C. CO	Andres Bonifacio, Diffun, Quirino	1
206	LBO LUMBER & CONSTRUCTION SUPPLY rep. by EMILY C. ONG	San Fermin, Cauayan City, Isabela	4
207	AVD COMMERCIAL CENTER rep. by ALDRICH GOMEZ	San Antonio, Delfin Albano, Isabela	8
208	TOLLMACK SAND AND GRAVEL CO. rep. by JOSEPH MARC S. DY	San Fermin, Cauayan City, Isabela	6
209	SIFFU CONSTRUCTION SUPPLY rep. by BENEDICT C. CALDERON	San Placido, Roxas, Isabela	11
210	ROFELIN DELA CRUZ GENERAL MERCHANDISE rep. by ROFELIN M. DELA CRUZ	Virgoneza, San Agustin, Isabela	9
211	JACQUELINE HARDWARE rep. by JACQUELINE CARLOS	San Antonio, San Mateo, Isabela	11
212	KRISTOPHER E. MALTU	Cabisera 8, City of Ilagan, Isabela	3
213	MAV CONSTRUCTION SUPPLY AND POWER DEVELOPMENT rep. by JOAQUIN B. UY III	District I, Cauayan City, Isabela	7
214	JUN U. BALLORAN	Minuri, Jones, Isabela	2
215	FELIX C. MIGUEL	Dibuluan, Jones, Isabela	1
216	DANIEL P. BALACCUA	Annafunan, Tumauini, Isabela	1
217	JUB HARDWARE AND CONSTRUCTION SUPPLY rep. by JULIETA UY BAUTISTA	Alibagu, City of Ilagan, Isabela	1
218	ERICSSON CONSTRUCTION rep. by ERICSSON B. LUY	Alibagu, City of Ilagan, Isabela	1
219	NELSON V. DONATO	Muñoz West, Roxas, Isabela	1
220	EGD MINI CONSTRUCTIONS AND GENERAL MERCHANDISE rep. by EDGAR F. DURAN	Cabulay, Santiago City, Isabela	2
221	A. FERRER SAND AND GRAVEL rep. by ARTURO FERRER	Rosario, Santiago City, Isabela	1

ENVIRONMENT AND NATURAL RESOURCES OFFICE

222	MOLINA HOLLOWBLOCKS SAND AND GRAVEL TRADING rep. by ROLDAN R. MOLINA	Ballesteros, Aurora, Isabela	8
223	MEGA "G" HARDWARE AND CONSTRUCTION SUPPLY rep. by REYNOLD R. GONZALES	Zamora, Cabarroguis, Quirino	2
224	RAMOS MERCHANDISE rep. by JENNY A. RAMOS	Liwanag, Tumauini, Isabela	2
225	MONPHIL GENERAL MERCHANDISE & CONSTRUCTION SUPPLY rep. by RAYMUNDO G. JUNIO	Upi, Gamu, Isabela	3
226	ACCELERATED METAL TECHNOLOGY & CONSTRUCTION, INC. rep. by ENGR. ANTONIO M. TUMOLVA	Guibang, Gamu, Isabela	14
227	SILVER DRAGON HARDWARE rep. by WILSON GANIPAN	Centro, Gabagan, Isabela	2
228	SPLENDID HARDWARE AND CONCRETE PRODUCTS rep. by SALADOR J. ACORDA	Diamantina, Cabatuan, Isabela	4
229	RICARDO G. ARTISUELA	Lapogan, Tumauini, Isabela	4
230	JOAN M. MAUR	Villa Imelda, City of Ilagan, Isabela	3
231	MERCEDITA M. GAMAYON	Calaguian, Burgos, Isabela	2
232	RONNEL M. BUTAC	Nemmatan, San Agustin, Isabela	7
233	RAUL T. SAWIT	San Fermin, Cauayan City, Isabela	14
234	M.E SICAT CONSTRUCTION CORPORATION rep. by ABELARDO A. ASTRERO	Pigattan, Gattaran, Isabela	7
235	AC & C BUILDERS AND ENTERPRISE S rep. by ALVIN D. UY	Napaccu Pequeño, Reina Mercedes, Isabela	12
236	THREE EAGLE BUILDERS & CONSTRUCTION SUPPLIES rep. by EDFEN VAN CHRYSLER B. ACIO	Victory Norte, Santiago City, Isabela	2
237	TUMAMAO ENTERPRISES rep. by OSCAR G. TUMAMAO	Rizal East, San Isidro, Isabela	7
238	RISING DRAGON ENTERPRISE rep. by JUAN NICOLE UY CO	Calamagui 2nd, City of Ilagan, Isabela	
239	VICTOR P. SALADINO	Cabugao, Echague, Isabela	
240	DALCON CONSTRUCTION rep. by DHEMIE LEO S. CONDAYA	Villa Hermosa Sur, Maddela, Quirino	5
241	ROBERTO B. ASUNCION	Balug, Tumauini, Isabela	1
242	DEAN ANTHONY R. ARZAGA	Sta. Victoria, City of Ilagan, Isabela	3
243	JCF HARDWARE rep. by JOVELYN C. FIGAROLA	San Antonio, City of Ilagan, Isabela	5
244	CHEERS TRADESTAR, INC. rep. by ANGEL B. SARANGAYA	Centro East, Santiago City, Isabela	1
245	COLBY CONSTRUCTION rep. by RODRIGO C. COLBONGAN	Batal, Santiago City, Isabela	3

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246	DENVER CONCRETE PRODUCTS TRADING rep. by DENVER F. BALAO	Calamagui 1st, City of Ilagan, Isabela	1
247	JUN-JUN A. CUARESMA	Cabisera 10, City of Ilagan, Isabela	3
248	GOLDEN TECH CONSTRUCTION CORPORATION rep. by ARMANDO S. TAN	Raniag, Ramon, Isabela	15
249	REYNANTE A. GARCIA	Rang-ayan, City of Ilagan, Isabela	1
250	DANNY M. ORTIZ	Gaddanan, San Mateo, Isabela	1
251	EJRM BOUTIQUE rep. by RODRIGO C. ABUAN	Bugallon Norte, Ramon, Isabela	1
252	JOSE B. BANGUG, JR.	Lapogan, Tumauni, Isabela	2
253	CS MINI HARDWARE rep. by CESAR IAN M. SANTOS	San Isidro, City of Ilagan, Isabela	2
254	RICARDO D. INTERIOR, JR.	Bunton, Tuguegarao City, Cagayan	4
255	RENATO S. SANTIAGO	San Isidro, City of Ilagan, Isabela	3
256	ADVANCED FOUNDATION CONSTRUCTION SYSTEM CORPORATION rep. by PEPITO VALDEZ	Minanga, Tumauni, Isabela	3
257	ERC SAND AND GRAVEL rep. by ROGER T. CAPRISO, SR.	Marasat Grande, San Mateo, Isabela	1
258	ES PUA CONSTRUCTION rep. by EDDIE S. PUA	Bliss Village, City of Ilagan, Isabela	9
259	MARDECO CONCRETE PRODUCTS rep. by ZENIA SALLY PAGUIO	Sinsayon, Santiago City, Isabela	1
260	ROMUALDO S. TRAJANO	Dubinan West, Santiago City, Isabela	3
261	JACKSON'S BUYING STATION & GRAIN DEALER rep. by JACKSON C. UY	Calamagui 2nd, City of Ilagan, Isabela	1
262	NITA'S HARDWARE, GRAVEL AND SAND rep. by CHRISTOPHER B. UY	San Pedro, Tumauni, Isabela	29
263	REA CONSTRUCTION & SUPPLIES rep. by KEVIN RAZIL E. DE ASIS	San Pedro, Tumauni, Isabela	4
264	HANNA'S HARDWARE rep. by ALMA T. BARUT	San Juan, Echague, Isabela	2
265	LORECRIS HOLLOWBLOCK AND SAND rep. by LORETO C. MALUYO, JR.	San Juan, Echague, Isabela	2
266	ESTEBAN HOLLOWBLOCKS AND SAND rep. by WILLIAM M. ESTEBAN	Batal, Santiago City, Isabela	4
267	ALKENJEE HARDWARE & CONSTRUCTION SUPPLY rep. by JESSIE T. BANGLOY	Barangay II, Jones, Isabela	4
268	GNM HARDWARE rep. by GENEROSO MANUEL	Buenavista, Santiago City, Isabela	10
269	LAARNI LUMABOG	Lullutan, City of Ilagan, Isabela	2
270	ARC HARDWARE	Maligaya, Mallig, Isabela	2

ENVIRONMENT AND NATURAL RESOURCES OFFICE

	rep. by ADRIAN R. COSTALES		
271	AREVALO CONSTRUCTION rep. by MAGNOLIA S. AREVALO	Apanay, Alicia, Isabela	2
272	ROYCE FEB V. LUNGAN	District 1, Benito Soliven, Isabela	6
273	KRISTAL FORTUNE TRADING	District 1, Cauayan City, Isabela	10
274	ROHAN GENERAL MERCHANDISE	Victoria, Alicia, Isabela	7
275	MA. CRISTINA V. PEROVSKI	San Mateo, Tumauni, Isabela	2
276	ABALOS GRAVEL & SAND rep. by JOCELYN S. ABALOS	Bantug, Ramon, Isabela	1
277	ADRIOSULA HARDWARE & CONSTRUCTION SUPPLY	Centro I, Mallig, Isabela	6
278	GACUTAN CONSTRUCTION INC	Minante 1, Cauayan City, Isabela	5
279	BUILDTECH DESIGN & CONSTRUCTION rep. by ENGR. MANOLO A. VELARDE	Sinippil, Reina Mercedes, Isabela	1
280	RICHARD A. VAGASCIA	Dibuluan, Jones, Isabela	1
281	GEDIUANO HARDWARE & AGRICULTURAL SUPPLY	Andres Bonifacio, Diffun, Quirino	3
282	QUIRINO PRIMES LUMBER & HARDWARE & GENERAL MERCHANDISE rep. by CONCHITA G. UY	Gundaway, Cabarroguis, Isabela	3
283	EDWARD D. JUAN	Luna, Quirino, Isabela	5
284	BMS HARDWARE & CONSTRUCTION	Diamantina, Cabatuan, Isabela	38
285	EGB CONSTRUCTION	Alibagu, City of Ilagan, Isabela	34
286	FOREF CONSTRUCTION	Osmeña, City of Ilagan, Isabela	5
287	JOEMAR R. GONZALES	Baligatan, City of Ilagan, Isabela	1
288	BIG-EM HARDWARE & CONSTRUCTION	Maddanulug Sur, Enrile, Cagayan	1
289	JOSEPH FELICIANO	Roma, Enrile, Cagayan	1
290	REYMOND E. IGNACIO	Roma, Enrile, Cagayan	1
291	JANNEA NITA'S HARDWARE	Balasisig, Cabagan, Isabela	2
292	ISAYAS BALAJADA	Roma Norte, Enrile, Cagayan	1
293	JAYCRIS SEMANA	San Lorenzo, City of Ilagan, Isabela	1
294	DJ-8 HARDWARE AND CONSTRUCTION	Gundaway, Cabarroguis, Isabela	2
295	HOLY SPIRIT MISSION MULTI- PURPOSE COOPERATIVE rep. by ABEL YAPYADAN	Bagnos, Alicia, Isabela	5
296	JEFFREY P. CRISPIN	Sindon Maride, City of Ilagan, Isabela	1
297	ULYSIS E. SALVADOR	Cabisera 7, City of Ilagan, Isabela	1
298	ARIOLAS GRAVEL & SAND	Calamagui 1st, City of Ilagan, Isabela	3
299	TRIPPLE 222 REALTY & DEVELOPMENT	Calao West, Santiago City, Isabela	7
300	RB CONSTRUCTION SERVICES rep. by ROEL G. CLOSA	Maria Clara, Diffun, Quirino	1

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301	FOREMOST FOUNDER ENTERPRISES rep. by DOMINADOR S. PASIG, JR.	District 1, Cauayan City, Isabela	5
302	HJ DOMINGO HARDWARE rep. by HECTOR J. DOMINGO	San Fabian, Echague, Isabela	3
303	MANUELITO S. MADDUMA	Calamagui 2nd, City of Ilagan, Isabela	1
304	AVELINO QUITOLA	Cabisera 27. City of Ilagan, Isabela	1
305	MAGG TRADING rep. by MARK ANTHONY C. CARABACCAN	Taggapan, Echague, Isabela	2
306	JVC CONSTRUCTION & CONSTRUCTION SUPPLY rep. by JIMMY VIC A. ELARDO	Masaya centro, San Agustin, Isabela	4
307	RIVERA BUYING STATION rep. by ALFONSO B. RIVERA, JR.	Maligaya, Tumauni, Isabela	1
308	JWD CONSTRUCTION rep. by WILSON S. DASIG	Calaocan, Alicia, Isabela	4
309	BERNARDO A. PUA	Bella Luz, San Mateo, Isabela	3
310	MEL CONSTRUCTION SUPPLIES TRADING rep. by MELITA AGONoy	Malasin, San Mateo, Isabela	1
311	ALEX H. CLEMENTE	Malvar, Santiago City, Isabela	1
312	JURIS CONSTRUCTION & BUILDERS rep. by ROLDAN OBANDO	Gundaway, Cabarroguis, Isabela	5
313	JUNJUN JUAN	San Antonio, City of Ilagan, Isabela	1
314	MEG'S ROOFING AND GLASS CENTER rep. by FIDES GULLA	San Sebastian, Ramon, Isabela	1
315	BOSS DADANG CONSTRUCTION SUPPLY rep. by GRACE ANTONETTE M. BERNAL	Salvacion, Alicia, Isabela	1
316	CAWELAN JUNKSHOP AND GENERAL MERCHANDISE rep. by DARLINA B. OLALAN	Divisoria, Santiago City, Isabela	4
317	JACQUES BENEDICK R. VIBAR	Minuri, Jones, Isabela	5
318	ROBERT L. AGBAYANI	Dumawing, Jones, Isabela	2
319	FERDINAND M. MENDOZA	Linomot, Jones, Isabela	2
320	JOSHUA N. BALLORAN	Minuri, Jones, Isabela	2
321	DIONISIO V. VALDEZ	Minuri, Jones, Isabela	2
322	CELSO T. VALDEZ	Napaliong, Jones, Isabela	3
323	HANIVAL O. FULGENCIO	San Andres, City of Ilagan, Isabela	3
324	JOVENCIO N. MANUEL	Baluarte, Santiago City, Isabela	3
325	J8 GRAVEL AND SAND TRADING rep. by JUDEE MATEO	Victoria, San Mateo, Isabela	4
326	ASUNCION'S CONSTRUCTION AGGREGATES TRADING (ACAT)	Rizal, Roxas, Isabela	1

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	rep. by ELMER O. ASUNCION, JR.		
327	VDV88 SAND AND GRAVEL QUARRYING rep. by VEDASTO D. VILLANUEVA	Cabisera 22, City of Ilagan, Isabela	2
328	JLG CONSTRUCTION rep. by JOEL L. GARCIA	Garita, Cabagan, Isabela	4
329	ARNOLD MALANA	Alinguigan 2nd, City of Ilagan, Isabela	1
330	GRACE M. CASTILLO	Liwanag, Tumauni, Isabela	3
331	AB ANTOLIN BUILDERS & SUPPLY rep. by JOHNY G. ANTOLIN	Zamora, Cabarroguis, Quirino	1
332	DREAT WALL COMMERCIAL rep. by GLORIA SINGSON	Andres Bonifacio, Diffun, Quirino	1
333	CHRISTIAN HARDWARE rep. by ROMEO P. CONCEPTION	Salinungan West, San Mateo, Isabela	1
334	MICHAEL A. TEROSO	San Fabian, Echague, Isabela	5
335	ASIAN ACROPOLIS BUILDERS rep. by ARCH. RALPH B. ABELLA	Calao West, Santiago City, Isabela	3
336	JAV COMMERCIAL rep. by JHOMAR L. VIERNES	Lapaz, Saguday, Quirino	3
337	RODRIGO C. QUE, SR.	District I, Cauayan City, Isabela	6
338	CADELIÑA CONCRETE PRODUCTS rep. by ALMA CADELIÑA	Mangcuram, City of Ilagan, Isabela	1
339	JCEAMS HOLLOW BLOCKS, GRAVEL AND SAND rep. by MARIA ANA CORAZON P. GERARDO	Bliss Village, City of Ilagan, Isabela	1
340	JOHNNY S. CABANSAG	Sta. Isabel Sur, City of Ilagan, Isabela	1
341	RJD'S CONSTRUCTION SUPPLIES TRADING rep. by REYVIRGIL DOMINGO	Balintukatoc, Santiago City, Isabela	2
342	JERRY MARTINEZ PAGULAYAN	Cabisera 2, San Antonio, City of Ilagan, Isabela	5
343	RICKY DELOS SANTOS	San Bernardo, Cabagan, Isabela	1
344	PRINCETON SITE TRADING rep. by ERIC ANTHONY L. DAYRIT	Daramuangan Norte, San Mateo, Isabela	1
345	MF MANUEL CONSTRUCTION rep. by MARIO F. MANUEL	Paddad, Alicia, Isabela	1
346	SANDY B. CASTRO	Villa Cruz, San Mateo, Isabela	3
347	JULOUUES G. GAFFUD	Nemmatan, San Agustin, Isabela	3
348	DISADECO-DIFFUN SARANAY AND DEVELOPMENT COOPERATIVE rep. by MA. RETHELLE J. JOSE	Andres Bonifacio, Diffun, Quirino	2
349	WESTERN GENERAL CONSTRUCTION AND SUPPLIES rep. by WILLIAM B. DADURAL	Rizal, Santiago City, Isabela	3

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350	LOLITO L. DASIG	Calaocan, Alicia, Isabela	4
351	NUCOPIA HARDWARE rep. by LEILA N. TOKOYAMA	Pangal Sur, Echague, Isabela	1
352	ITP PROPERTIES CORPORATION rep. by PETER M. AGUILAR	Bliss Village, City of Ilagan, Isabela	4
353	HERWIN G. HERNANDO	Barangay 2, Jones, Isabela	4
354	ERNESTO S. FERNANDEZ	Sinsayon, Santiago City, Isabela	2
355	HERSON P. CORPUZ	Barangay 2, Jones, Isabela	2
356	PS CIVIL ENGINEERING CONSTRUCTION rep. by PEDISO R. DAYAN	Villa Hermosa Sur, Maddela, Quirino	4
357	BELEY IRON WORKS AND GRAVEL AND SAND rep. by JOHNNY D. BELEY	Calaocan, Santiago City, Isabela	2
358	JR HARDWARE TRADING rep. by FELIX C. TAPAOAN	Villa Santiago, Aglipay, Quirino	3
359	JP HARDWARE rep. by CARLITO A. PASION	Colorado, San Guillermo, Isabela	1
360	TJ'S CONCRETE PRODUCTS AND CONSTRUCTION SUPPLY rep. by JOSEPHINE T. BAUTISTA	Rizal, Santiago City, Isabela	3
361	FLORENDO VIDAL, JR.	Bantug, Roxas, Isabela	3
362	REGALADO C. DURAN	Centro, San Antonio, City of Ilagan, Isabela	1
363	INFINITUM 888 CONSTRUCTION & DEVELOPMENT CORPORATION rep. by MARIA VISITATION R. CRISTOBAL	Centro 2, Angadanan, Isabela	6
364	JHONAS D. PALITAYAN	Digumased, Dinapigue, Isabela	2
365	JMD68 BUILDERS rep. by DIOSDADO M. ELERIA	Cabarroguis, Quirino	2
366	MARDEB CONSTRUCTION AND DEVELOPMENT CORPORATION rep. by MARIO P. DELA FUENTE	Magdalena, Cabatuan, Isabela	18
367	GEMS BUILDERS & CONSTRUCTION SUPPLY rep. by RIZZA MAE CABARLOC	Calamagui 1st, City of Ilagan, Isabela	4
368	FRANCISCO B. TAGUILING	Rizal, Saguday, Quirino	2
369	RRC CONSTRUCTION rep. by REYNILO R. CHUA	Rang-ayan, Roxas, Isabela	21
370	MYRA S. SALAS	Lullutan, City of Ilagan, Isabela	1
371	OBLADIE B. BATANG	Rizaluna, Cordon, Isabela	2
372	MICHELLE G. ARAÑA	Digumased, Dinapigue, Isabela	1
373	NOEL M. IBANA	Sto. Domingo, Jones, Isabela	2
374	RICARDO D. CASCAYAN, JR.	Sta. Isabel, Jones, Isabela	2
375	BILLY M. PASCUAL	Sta. Isabel, Jones, Isabela	2
376	RONIE P. CASCAYAN	Sta. Isabel, Jones, Isabela	2
377	RANDI D. CORTEZ	Sto. Domingo, Jones, Isabela	1
378	REGINITO M. LOPEZ	Quezon, San Isidro, Isabela	8

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379	JDR SAND AND GRAVEL rep. by GEMMA OH	Cabaruan, Cauayan City, Isabela	7
380	REGINALDO T. ANCHETA	Bangag, City of Ilagan, Isabela	1
381	IRC CONSTRUCTION rep. by JIMMY C. CENA	Arubub, Jones, Isabela	6
382	JOHNSON B. RAMONES	Minuri, Jones, Isabela	1
383	LORETA S. IBANA, JR.	Sto. Domingo, Jones, Isabela	2
384	FRANKLIN I. BANGLOY	Sto. Domingo, Jones, Isabela	2
385	JEFERSON I. SANTOS	Sto. Domingo, Jones, Isabela	1
386	ORLANDO B. GALLARDO	Virgoneza, San Agustin, Isabela	1
387	ANB CONSTRUCTION & SUPPLY rep. by NARCISO L. BILAYON, JR.	Capirpiriwan, Cordon, Isabela	6
388	JANN NORRIS CONSTRUCTION AND SUPPLIES rep. by NOLY M. OKAMOTO	Makate, Bambang, Nueva Viscaya	8
389	SABERS AGGREGATES AND HOLLOW BLOCKS rep. by FELIX ANGEL PASCUA	Batal, Santiago City, Isabela	2
390	JFO CONSTRUCTION rep. by JUANITO F. OLOAN	Upi, Gamu, Isabela	2
391	MARILOU N. SANCHEZ	Centro I, San Guillermo, Isabela	2
392	PROLINE CONSTRUCTION rep. by RAYMUNDO T. ILAGAN	Taringsing, Cordon, Isabela	5
393	ATEAM GRAVEL AND SAND rep. by JOHN FILIP HOPE E. ANGOBUNG	Carpintero, Tumauni, Isabela	5
394	ATM GASOLINE STATION rep. by AERON T. MALENAB	Naguilian Sur, City of Ilagan, Isabela	3
395	BARCON CONSTRUCTION rep. by FRITZ UY COMIA	Mabini, Gamu, Isabela	1
396	JST CONSTRUCTION rep. by JOSE S. TAN	Andres Bonifacio, Diffun, Quirino	10
397	BACLIG ENTERPRISES rep. by LEODORICO S. BACLIG	Magsaysay, Saguday, Quirino	1
398	ARTHUR U. BULAN	Payac, Jones, Isabela	4
399	MALGAPO ENTERPRISES rep. by ADRIAN M. IBAY	Laurel, Cordon, Isabela	6
400	JG RAMOS GENERAL MERCHANDISE rep. by JANICE RAMOS	Minuri, Jones, Isabela	2
401	RECTO P. RIDAO	Malapat, Cordon, Isabela	1
402	SALVACION C. VINARAO	Naguilian Sur, City of Ilagan, Isabela	1
403	TILE MASTER & CONSTRUCTION SUPPLY rep. by ELIZABETH INDAG	Batal, Santiago City, Isabela	2
404	RICHARD M. MANGABAT	Masaya Sur, San Agustin, Isabela	1
405	DENNIS T. ANDRES	Cabulay, Santiago City, Isabela	1
406	RT CRISTOBAL ENTERPRISES AND GRAIN CENTER rep. by RODOLFO T. CRISTOBAL, JR.	Bugallon Proper, Ramon, Isabela	1

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407	LOLA ANING'S SAND AND GRAVEL TRADING rep. by JULIANAH MARIE YLARDE RAMOS	Osmeña, City of Ilagan, Isabela	1
408	LUCAS C. PAUIG, JR.	Ugac Sur, Tuguegarao City, Cagayan	3
409	JULIAN W. DACACA	Batal, Santiago City, Isabela	1
410	FERMAR BUILDERS rep. by WILHELMINO R. FERRER	Bugallon Proper, Ramon, Isabela	2
411	P. SUNRISE CONSTRUCTION SUPPLIES rep. by KEVIN CHRISTIAN PUA	Calamagui 2nd, City of Ilagan, Isabela	2
412	SHERWIN PROSE C. CASTAÑEDA	Dammao, Gamu, Isabela	1
413	DANTE M. AZUL	Aggassian, City of Ilagan, Isabela	1
414	MARK FRANCIS A. GATAN	Sta. Filomena, San Mariano, Isabela	1
415	RICHARD S. GAUANI	Baluarte, Santiago City, Isabela	1

A. Monitoring of Extraction Activities

The Office conducted regular monitoring of all mining and quarry areas in the strict implementation and enforcement of Provincial Ordinance No. 05, series of 2014. A total of **Forty (40)** Isabela Environment Protection Task Force (ISEP-TF) Operative members were dispatched to conduct daily field monitoring, inspection and verification of sand and gravel extraction activities in the different quarry areas province-wide. Monitoring reports together with the delivery receipts are submitted regularly in the office.

For this year, **686,761.31 cu. m.** quarry resources were extracted representing 2,670.00 cu.m Ordinary Earth, 582,131.00 Mixed, 24,732.00 G1/S1 and 77,228.31 Boulders with corresponding tax value amounting to **Twenty Five Million Eight Hundred Fifteen Thousand One Hundred Eighty Two and 05/100 (P25,815,182.05)**

Table 4. Volume of extracted sand and gravel based on monitoring reports.

Month	Type				Total cu. m.	Total Quarry Tax & Fees
	Earth (cu.m.)	Mixed (cu.m)	G1/S1 (cu.m.)	Boulders (cu.m.)		
January	96.00	39,245.00	1,024.00	5,079.00	45,444.00	₱1,701,880.00
February	-	77,888.00	4,347.00	8,306.40	90,541.40	₱3,378,547.00
March	450.00	61,304.00	4,074.00	8,860.91	74,688.91	₱2,829,820.05
April	494.00	52,858.00	4,610.00	9,452.00	67,414.00	₱2,592,160.00
May	-	64,523.00	2,870.00	7,943.00	75,336.00	₱2,824,320.00
June	-	54,682.00	1,536.00	10,634.00	66,852.00	₱2,567,860.00
July	-	51,099.00	1,272.00	8,714.00	61,085.00	₱2,324,975.00

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August	-	44,374.00	1,091.00	7,334.00	52,799.00	₱2,005,555.00
September	480.00	35,796.00	777.00	3,174.00	40,227.00	₱1,476,795.00
October	-	26,954.00	1,239.00	746.00	28,939.00	₱1,040,175.00
November	480.00	43,715.00	1,213.00	3,749.00	49,157.00	₱1,805,205.00
December	670.00	29,693.00	679.00	3,236.00	34,278.00	₱1,267,890.00
Total (cu.m)	2,670.00	582,131.00	24,732.00	77,228.31	686,761.31	
Total Amount	₱80,100.00	₱20,374,585.00	₱1,112,940.00	₱4,247,557.05		₱25,815,182.05



Figure 2. Monitoring of sand and gravel extraction

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B. Field Verification and Inspection

As part of the Office mandate, field verifications and evaluations of quarry areas were conducted to determine compliance of permit holders to environmental rules and regulations. This year, the office was able to conduct inspection of ten (10) quarry sites in the Province. The findings and results of the activities are summarized in the table below:

Table 5. Summary of field verifications and evaluations of quarry areas.

Applicant	Location		Area (has)	Findings	Remarks/ Recommendations
	Barangay	Municipality			
Glenn Moore Caramancion	Disimpit	Jones	5.00	Actual areas used for operation are adjacent to the surveyed. Large stockpiles of waste were not cleared away properly.	Re-establishment of quarry boundaries. Stockpiles must be properly cleared away.
Jessie T. Bangloy	Nemmatan	San Agustin	3.80		
Rofelin M. Dela Cruz	Sinaoangan Sur		5.00		
Engr. Elvin M. Ramos	Casibarag Norte	Cabagan	5.00	Operation in Casibarag Norte was within the indicated area, while for Calamagui 1st and Carpintero, operations were outside the area.	Re-establishment of quarry boundaries. Stockpiles must be properly cleared away.
John Lorenz O. Bautista	Carpintero	Tumauini	5.00		
Jonathan P. Uy	Sisim Abajo		4.99		
Nicko Ralph O. Bautista	Antagan 2 nd	City of Ilagan	5.00	Operation in Sisim Abajo and San Ignacio were within boundaries while operations in Antagan 2nd and Baculud were located beyond the boundaries.	Re-establishment of quarry boundaries. Stockpiles must be properly cleared away.
Dolly F. Ariola	Calamagui 1st		2.50		
Flordeliza M. Balisi	Baculud		5.00		
Rosalino U. Urandayan	San Ignacio		4.99		



Figure 3. Field verification and inspection on various quarry sites in the Province.

C. Investigation/Settlement of Quarry and Mining-Related Complaints

- An ocular inspection was conducted in February 16, 2021, at Alinguigan 2nd, City of Ilagan, Isabela in response to the complaint letter of Mr. Rodolfo A. Bayucan, a resident of said barangay. The complaint letter stated that quarry operations in the area resulted to erosion. Upon series of investigations, it was found that quarrying in the area did not contribute to the erosion of the riverbanks. However, a cease-and desist order was issued since there are on-going operations despite the absence of approved permit for the area. Current extraction operations in the area are concentrated in the sand bar located in the middle portion of the river, and is considered as part of the region-wide dredging project along the stretch of the Cagayan River.

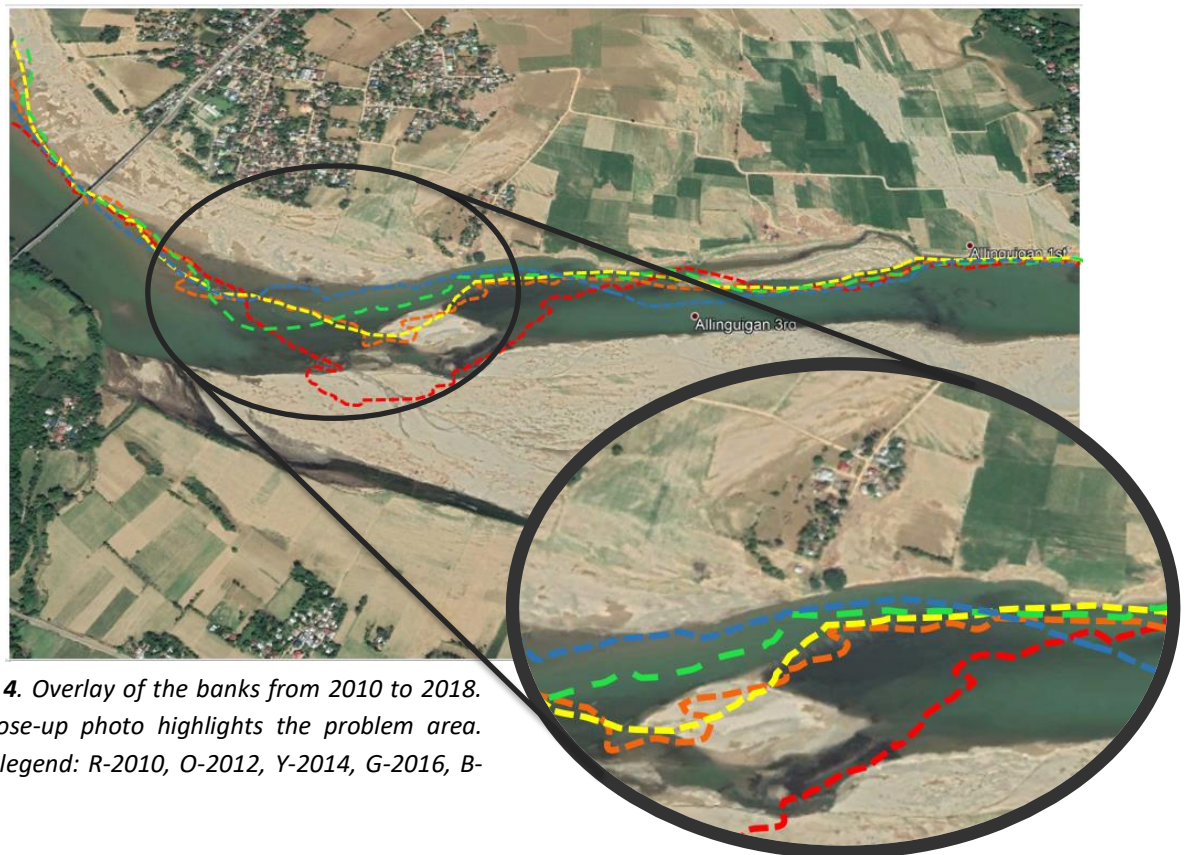


Figure 4. Overlay of the banks from 2010 to 2018. The close-up photo highlights the problem area. (Color legend: R-2010, O-2012, Y-2014, G-2016, B-2018)



Figure 5. Photos taken during site inspection and investigation at Brgy. Alinguigan 2nd, City of Ilagan, Isabela.

- An investigation was conducted at Brgy. Simimbaan, Roxas last March 2, 2021, due to reports of unauthorized quarry operations. During the site visit, there were no operations observed, but evidences indicated prior excavation in the area. The site is within the forest zone of Roxas, Isabela. A follow-up visit was conducted last July 14, 2021, where no further activities were observed.



Figure 6. Reported area in Brgy. Simimbaan, Roxas, Isabela. Note the excavated face of the hills, which is mostly composed of unconsolidated aggregates.

- A report about illegal quarrying in Sta. Maria, Isabela led to an investigation, conducted by ENRO Isabela staff, together with MGB RO2 personnel last May 25, 2021. The illegal activity was reported last May and is reported to be within the property of a certain Mr. Primo Telan. Upon investigation, it was found that there were no traces of quarry operation in the vicinity of the private property. Furthermore, San Jose Calamagui Gravel and Sand Inc., is the one operating in the contested area, and not the alleged operator, Kimikarlai Construction Company. It was recommended that the operation of the said company be monitored by the Provincial LGU.



Figure 7. Field inspection conducted by representatives from ENRO and MGB RO2 in Sta. Maria, Isabela.

- In June 24, 2021, an ocular field inspection was conducted at San Agustin, particularly in the barangays of Masaya Norte, Masaya Centro and Masaya Sur. The site was inspected together with Sangguniang Bayan Members of San Agustin. A discussion was held in the municipal hall afterwards wherein recommendations were formulated to monitor future dredging operations in the identified areas.



Figure 8. Field inspection and discussion between ENRO personnel and representatives from San Agustin LGU on quarry operations within the municipality.

- In response to complaints of landowners from San Agustin, the office conducted an ocular inspection on the boundary of Brgy. Nemmatan, San Agustin and Brgy. Usol, Jones last October 15, 2021. Upon inspection, it was found that the contested area is now under the jurisdiction of Brgy. Usol, Jones and formerly located in Brgy, Nemmatan. An agreement was formed between the permittee and the concerned landowners. A buffer zone was also established between the farmlands and the quarry site.



Figure 9. Ocular inspection on disputed quarry area between San Agustin, Isabela and Jones, Isabela.

- In December 22, 2021, a joint investigation was done at Brgys. Lalog I and II, Luna, Isabela in response to a complaint against alleged illegal quarry activities near Lalog Bridge. The joint investigation was done together with Ms. Jessa G. Ammugauan of DENR-PENRO Isabela. This was done to determine the authenticity of the complaint. During the investigation, it was found that the damage on the bridge was due to past typhoons in 2018 (Typhoon Rosita) and 2020 (Typhoon Ulysses), and not due to quarry activities in the area, as alleged by the complaint. Additionally, there were no on-going operations or equipment observed near the bridge during the investigation. Strict monitoring of quarry operation in the area was recommended.



Figure 10. Meeting with Engr. Lawrence C. Naguita, Municipal Engineer, and Mr. Nestor Labog, Municipal ENRO Designate of LGU Luna. The bridge in question is on the left. Note the scoured foundation of the bridge, attributed to the erosive action of flowing water.

II. UPDATES ON MINAHANG BAYAN

In October 2021, the ENR Office, together with representatives from EMB RO2 and CENRO-Palanan Sub-Office personnel conducted water and air sampling, as well as public scoping in Dinapigue, Isabela. This was done as a requirement to the ECC application of the Minahang Bayan in the said municipality. The sampling was conducted at the community and at the proposed site to establish baseline data for the air and water quality. The public scoping was done to present the details and current status of the project and its possible benefits to the host community.

After the activities, a draft of the project's Environmental Impact Study was prepared and it was submitted for review at the Environmental Management Bureau-Regional Office in Tuguegarao City, Cagayan.



Figure 11. Air and water sampling, and public scoping in Dinapigue, Isabela for the Minahang Bayan project.

III. PROVINCIAL MINING REGULATORY BOARD (PMRB) - Isabela

The Provincial Mining Regulatory Board – Isabela conducted its regular meetings through virtual meeting and being presided by Engr. Mario A. Ancheta, MGB-R02 Regional Director and attended by its regular members For. Geronimo P. Cabaccan, Jr., ENR Officer; Engr. Antonio Tumolva, Small Scale Mining/Quarry Representative; Mr. Charles Lim, NGO Representative; Mr. Joemar Dela Cruz, Large Scale Mining Representative and some MGB-R02 Personnel.

The virtual meetings were conducted last March 22, 2021, September 3, 2021 and November 9, 2021 with the following agenda, to wit:

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DATE	AGENDA
March 22, 2021	<p>-Deliberation on renewal of twenty-four (24) applications for CSAG permit.</p> <p>-Field investigation and verification of the complaint letter against a quarry operator in Brgy. Alinguigan 2nd, Ilagan, Isabela</p> <p>-Status of Minahang Bayan in Dinapigue, Isabela</p> <p>-Status of Minahang Bayan in Cordon, Isabela</p> <p>-On-going construction of Dinapigue Mining Corporation's causeway</p>
September 3, 2021	<p>-Update on the status of CSAG operations and other tenements in the Province</p> <p>-Update on the status of Declaration of Minahang Bayan in the Province (Cordon and Dinapigue)</p> <p>-Update on request for extension to secure and submit ECC for the Minahang Bayan application of PLGU Isabela in Dinapigue, Isabela</p> <p>-Fees for the utilization of quarry resources used in the construction of DMC's causeway</p>
November 9, 2021	<p>- Update on the Status of Declaration of Minahang Bayan in the Province:</p> <p>* Status of request for extension of time for the segregation and declaration of a Minahang Bayan of PLGU Isabela located at Sitio Dimakawal, Barangays Bucal Norte and Bucal Sur, Dinapigue, Isabela.</p> <p>*Status of ECC Application.</p> <p>- Letter dated October 14, 2021 of the ENRO-Isabela to Dinapigue Mining Corporation re: request for Program of Work of the constructed causeway at Dimaluade, Dinapigue, Isabela.</p>



Figure 12. Photo taken during a virtual meeting of Provincial Mining Regulatory Board (PMRB)

IV. OTHER ACTIVITIES

A. Geo Tagging of Quarry Sites for Sand and Gravel Extraction Activities

Aside from monitoring of sand and gravel extraction, the ENR Office also conducts geo-tagging of sites that are amenable for quarrying activities. This activity serves to update database information of quarry resources in the Province. The identified sites are mapped in terms of its environmental status, estimated aggregate volume and suitability of the resources for utilization. For this year, the Office was able to geo-tag a total of twenty-seven (27) sites. The next table presents the summary of the geo-tagged sites, their location and estimated volume of resources.



Figure 13. Landsat images of geo-tagged areas (via Google Earth).

Table 6. Summary of geo-tagged quarry areas.

No. of Sites Geo-Tagged	Location		Estimated Area (has)	Estimated Volume (cu. m.)
	Barangay	Municipality		
10	Lapogan	Tumauni	40.00	800,000
	Carpintero		47.00	954,000
	Antagan 2nd		17.00	350,000
	Casibarag Norte/Sur	Cabagan	90.00	1,800,000
	Annanuman	San Pablo	13.00	260,000
	Upi	Gamau	11.00	220,000
	Guibang/District II		40.00	800,000
	Lucban	Benito Soliven	8.00	160,000
	Maluno Norte		8.00	160,000
2	San Placido	Roxas	33.00	660,000
	Furao	Gamau	3.70	74,000

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	Lenzon		5.00	100,000
7	Lalog I	Luna	45.00	900,000
	Lalog II		95.00	1,900,000
	Pulay			
	Union Kalinga	Aurora	126.00	2,520,000
	Camarunggayan			
	Panicien			
	Kalabaza			
6	Culing Centro	Cabatuan	40.00	800,000
	Saranay		94.00	1,880,000
	Rang-Ay		60.00	1,200,000
	Masaya Norte	San Agustin	11.00	220,000
	Masaya Centro			
	Masaya Sur			
2	Banquero	Reina Mercedes	4.00	80,000
	Turod		5.60	112,000
TOTAL			796.30	15,950,000

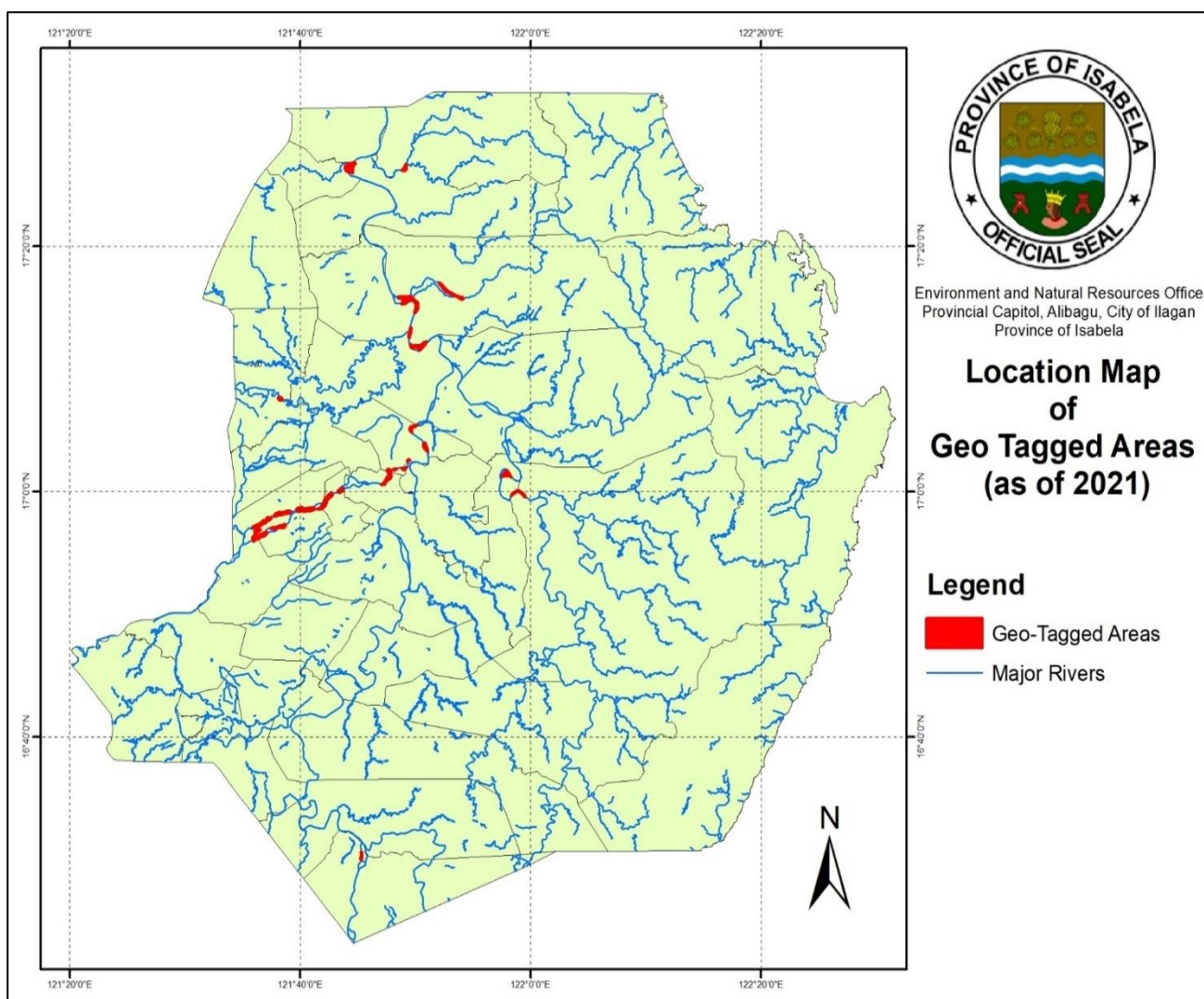


Figure 14. Location of geo-tagged areas in the Province of Isabela as of 2021

A. Assist in Conducting Geologic Quadrangle Mapping

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The office also assisted representatives of Lands Geological Survey Division (LGSD) of the Mines and Geosciences Bureau- Central Office (MGB-CO) in conducting a Geologic Quadrangle Mapping along the Ilagan-Divilacan Road Rehabilitation and Improvement Project (IDRRIP) in Sindon Bayabo, City of Ilagan, Isabela held last June 9-11, 2021.

The activity involved taking rock samples from exposed outcrops such as roadcuts and rivers to determine the different rock types in the region. Other geologic features that were observed, such as faults, dikes and contacts, were also noted. This is to provide a comprehensive geology of the Lapigue Quadrangle, which was previously lacking, based from the observed lithology in said area.



Figure 15. Photos showing MGB-Central Office and ENRO personnel conducting geological survey along IDRRIP in Sindon Bayabo, City of Ilagan, Isabela.

ACTIVITIES UNDERTAKEN IN SUPPORT OF

Prepared & Submitted by:

IAN B. PAGUIRIGAN
C/Engineer I

JANSEN M. CASTRO
CDA II

ROGEL A. MANSIBANG
CDA II

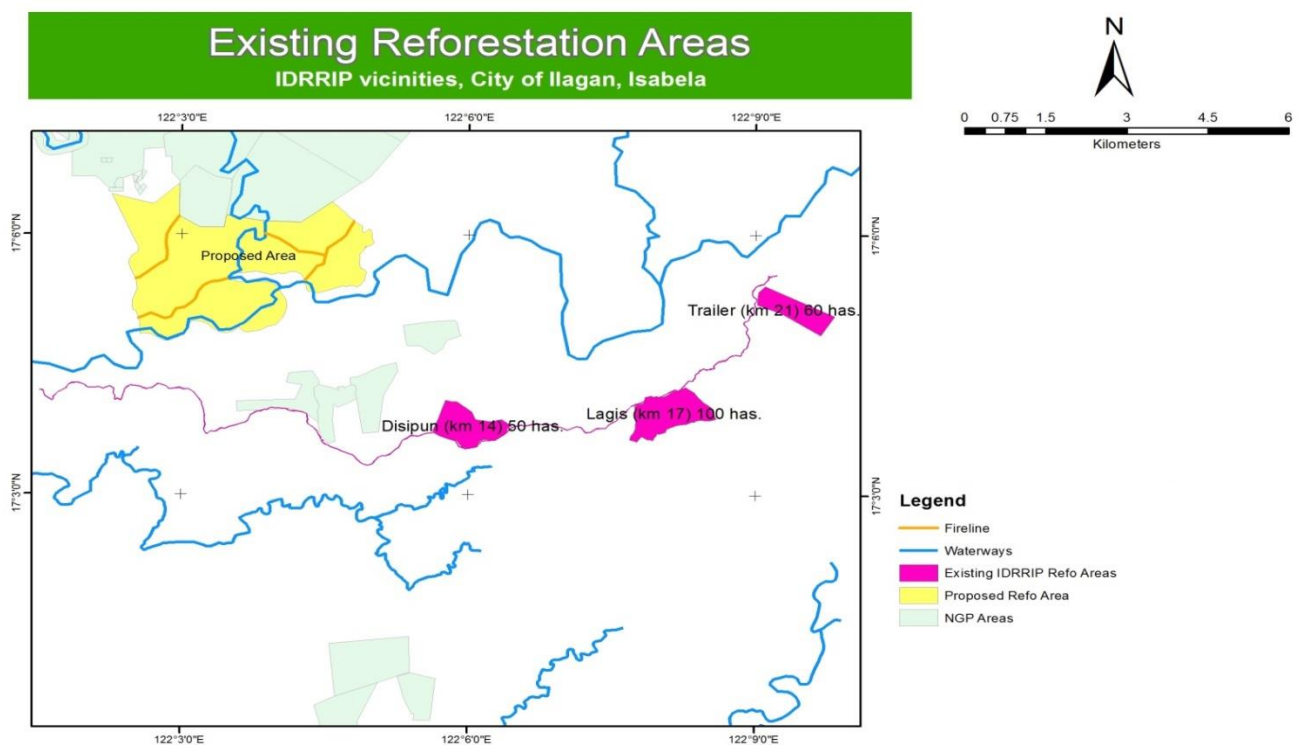
TEODORICO S. BAGUNU
CDO II

CELIA N. BADUA
SEMS

ILAGAN-DIVILACAN ROAD REHABILITATION & IMPROVEMENT PROJECT (IDRRIP)

III. ESTABLISHMENT, MAINTENANCE & PROTECTION OF THE REFORESTATION AREAS

The implementation of the Ilagan-Divilacan Road Reforestation Projects specifically the Maintenance of 250-hectare RTA 1Million Tree Project, the 50-hectare IDR Roadside Reforestation Project and the 100-hectare Coconut Plantation Project were awarded to Rang-ayan Nature Spring Farmers Multi-Purpose Cooperative led by its Chairman Aldrich T. Tindungan. The contractor coordinated with the ENR Office as early as April and May of 2021 to discuss matters prior to the start of the implementation of the reforestation projects. During the discussion, it was decided that project implementation should start during rainy season since planting of seedlings during dry season is not advisable. On July 2021, ENR personnel together with DENR-CENRO and the contractor representatives conducted joint-survey and site validation of the existing and additional reforestation areas for the project (see image). The 250-hectare RTA and the 50-hectare roadside are located within the vicinities of the Ilagan-Divilacan Road while the 100-hectare coconut plantation is located at the forest areas of Brgy. Villa Imelda as shown in the image.



On July 2021, the contractor established a temporary nursery at Km.14 (Sitio Disipun) reforestation area for stockpiling of seedlings to be delivered and use for the projects. Seedlings were also started to be delivered in the established nursery on the same month and seedlings were continuously being delivered up to October 2021. With the project implementation, the ENR Office assigned personnel For. William N. Corpuz and the ISEP-TF operatives to monitor the project.

The maintenance activities of the 250-hectare RTA project also started on July 2021. The contractor hired laborers within the vicinities of Ilagan-Divilacan Road to conduct strip brushing, ring weeding, cultivation and fertilizer application and others, providing additional livelihood to the nearby communities. Since the 50-hectare Sitio Disipun (km.14)

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reforestation area was totally damaged by a forest fire incident on May 16, 2021, it was decided that the allotted seedlings (40,572) for the maintenance of the 250-hectare RTA shall be planted thereat. Meanwhile, the 63,940 seedlings allotted for the 50-hectare roadside areas were planted along IDR roadside starting from Km. 12 up to 23; and for the maintenance of So. Lagis and Trailer reforestation areas. Series of inspection was also conducted almost every month by a team from ENR Office and PGS Office which started on August 12, 2021. The team inspected the seedlings delivered and the work accomplished by the contractor. Planting and replanting of seedlings and other maintenance activities for the 250-hectare RTA and 50-hectare roadside started on July 2021 and continuously conducted by the hired laborers up to October 2021.

For the 100-hectare coconut plantation, the contractor also established a temporary nursery near the planting site at the forest area of Villa Imelda, City of Ilagan, Isabela. Seedlings were also delivered on a staggered basis which started on August up to November, 2021. The same team composed of ENRO and PGSO personnel also inspected the delivered dwarf coconut seedlings and monitored the status of the plantation establishment that started on September 2021. As for the fertilizer, the contractor had stored the organic fertilizer at a warehouse in Brgy. Arusip, City of Ilagan to avoid getting wet and damaged by the rain. The organic fertilizers are delivered by the contractor to the project whenever they conduct fertilizer application which was part of the contract.

In summary, as of November 2021, all seedlings, 40,572 for 250-RTA maintenance and 63,940 seedlings for 50-hectare roadside were already delivered and planted. Other maintenance activities such as ring weeding, cultivation, watering and fertilizer application is on-going. However, for the Sitio Disipun reforestation area, all maintenance activities were already conducted. For the 100-hectare coconut plantation project, all 31,970 dwarf coconut seedlings were already delivered and around 15,272 were already planted (around 50 hectares) in the additional reforestation area and plantation establishment is on-going. The tables below show the monthly accomplishment of the contractor per project component, to wit:

**Inventory of Seedlings Delivered and Planted
250-hectare RTA 1 Million 1 Day Project
As of October, 2021**

No.	Seedlings	July		August		September		October		T O T A L	
		Delivered	Planted	Delivered	Planted	Delivered	Planted	Delivered	Planted	Delivered	Planted
1	Molave	8,000	2,000	10,500	1,000	4,000	10,000	0	9,500	22,500	22,500
2	Narra	9,000	3,000	9,072	1,500	0	9,000	0	4,572	18,072	18,072

**Inventory of Seedlings Delivered and Planted
50-hectare IDR Roadside
As of October, 2021**

No.	Seedlings	July		August		September		October		T O T A L	
		Delivered	Planted	Delivered	Planted	Delivered	Planted	Delivered	Planted	Delivered	Planted
1	Molave			4,850	1,600	4,930	6,800	3,008	4,388	12,788	12,788
2	Narra			6,000	1,600	6,788	7,500	0	3,688	12,788	12,788
3	Ipil			5,000	1,600	5,788	6,200	2,000	4,988	12,788	12,788
4	Yakal			5,000	1,600	5,788	6,800	2,000	4,388	12,788	12,788
5	Tindalo			2,500	1,600	5,288	6,600	5,000	4,588	12,788	12,788

**Inventory of Seedlings Delivered and Planted
100-hectare Coconut Plantation Project
As of November 04, 2021**

No.	Seedlings	July		August		September		October		4-Nov-21		T O T A L	
		Delivered	Planted	Delivered	Planted	Delivered	Planted	Delivered	Planted	Delivered	Planted	Delivered	Planted
1	Dwarf Coconut	0	0	6,500	0	9,670	5,942	6,000	8,130	9,800	1,200	31,970	15,272

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Photos during inspection of the delivered seedlings and fertilizers for the maintenance of the 250-hectare RTA reforestation areas; and establishment of 50-hectare roadside reforestation and 100-hectare coconut plantation as part of the Agroforestry component



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Photographs showing the planted seedlings for the 250-hectare RTA Reforestation project



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Photographs showing the planted seedlings for the 250-hectare RTA Reforestation project



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Photographs showing the planted seedlings for the 50-hectare IDR Roadside Reforestation project



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Photographs showing the planted seedlings for the 50-hectare IDR Roadside Reforestation project



Photographs showing the planted dwarf coconut seedlings for the 100-hectare coconut plantation project



Photographs showing the planted dwarf coconut seedlings for the 100-hectare coconut plantation project



IV. MONITORING, SURVEY, DOCUMENTATION AND OTHER ACTIVITIES ALONG IDR

- In celebration of Earth Day 2021, personnel of this Office together with members of the ISEP-TF Operative conducted series of clean-up, protection and maintenance activities at the reforestation areas along the IDR. This includes cleaning of the monitoring checkpoints, ring-weeding, re-planting and fertilizer application.



Clean-up activities at IDRRIP Monitoring Checkpoints

Protection and maintenance activities at the IDRRIP Reforestation areas



Protection and maintenance activities at the IDRRIP Reforestation areas



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- Unfortunately, a forest fire incident within the IDRRIP Reforestation area at Sitio Disipon, Sindon Bayabo occurred on May 16, 2021. The information on the sudden occurrence of fire in the area was received from concerned residents of Sitio Lagis after few hours the ISEP-TF Operative members passed by the area during their mobile patrolling.

The team right away responded and proceeded immediately to the project site to control the situation. However upon arrival, the fire was already massive and had spread so quickly all throughout the area. Due to strong winds, the group was not able to contain the fire. While at the same time, a member of the team conducted surveillance of the area trying to determine presence of culprits but to no avail.

Unfortunately, despite all efforts done by the ISEP-TF Team to contain the fire incident, the **50 hectares** reforestation area was totally damaged by fire and an estimated of **55,000 planted seedlings** were affected.



After series of coordination with PNP and BFP City of Ilagan Offices, a case was finally filed against three individuals identified during their conduct of investigation in violation of PD 1613. The burned areas is now undergoing rehabilitation.

Prepared & Submitted by:

BLADIMIR A. PINTUCAN
CDO II

OTHER RELATED ACTIVITIES

V. **COMPLIANCE MONITORING OF BARANGAYS AND SCHOOLS TO ENVIRONMENTAL-RELATED PROVINCIAL EXECUTIVE ORDERS**

This activity aims to monitor compliance of barangays and schools in the Province of Isabela relative to the following Executive Orders, to wit:

- | No. | Title |
|-------------------|--|
| 1. Exec. Order 42 | - Enjoining All Schools In The Province Of Isabela To Ensure The Planting Of 100 New Trees Per Year Adjacent To Their Perimeter Fences Or Boundaries As Windbreakers And Natural Barriers |
| 2. Exec. Order 43 | - Enjoining All Barangays In The Province Of Isabela To Plant 500 Trees Per Year Along Highways But Away From Electric Post And Service Lines In Their Respective Area |
| 3. Exec. Order 44 | - Enjoining All Barangays Officials To Ensure The Implementation Of Riparian And Urban Greening Program In Their Area Particularly Barangays Situated Along Major River System Such As Pinacanauan De Ilaguen River, Magat River And Rio Grande De Cagayan |
| 4. Exec. Order 45 | - Enjoining All Schools In The Province Of Isabela To Apportion A Budget To Facilitate The Establishment Of Rain Harvesting Facility In Their Proposed And Existing School Building For Non-Potable And Sanitation Purposes |



VI. CELEBRATION OF 2021 PHILIPPINE ENVIRONMENTAL MONTH

The Provincial Government of Isabela through this Office spearheaded series of bamboo/tree planting and clean – up drive activities within the identified municipalities of Isabela. Said activities were in conjunction with the celebration of the World Environment Day and Philippine Environment Month with the local theme “Sama-samang pagkilos, sama-samang paghilom: Ikaw, ako, tayo ang kalikasan.”

June 11, 2021 – In partnership with the Local Government Unit of Jones, the simultaneous clean-up drive along the river banks of the Cagayan River was conducted at Barangay Uno, Barangay Dos, Disimpit and Palagao. The ENRO personnel together with the total of sixty-nine (69) representatives from LGU-MENRO and participating agencies to include the Philippine National Police (PNP), Bureau of fire Protection (BFP), Philippine Army, Barangay officials and residents from the above-named barangays took part in the activity. Approximately 50 bags/sacks of mixed wastes such as candy wrappers, plastics, styrofoam, diapers, napkins, used garments, etc. were collected during the clean-up activity.



June 15, 2021 – In coordination with LGU Sta. Maria thru their Municipal Environment and Natural Resources Office (MENRO) and Municipal Agriculturist Office (MAO) led by Ms. Minia Atal conducted bamboo/tree planting activity along the riparian buffers of Cagayan River in Barangays Mozzozzin and Buenavista. The Barangay officials and residents residing along the river banks took part in the activity and were also actively participated by representatives from the Philippine National Police (PNP) – CAISAKA Patrol Base 201st Maneuver Company Regional Mobile Force Battalion headed by PLT. Edgar S. Mabatan. A total of three hundred fifty (350) bamboo propagules and Kupang seedlings were planted by the participants. The Isabela Environment Protection – Task Force (ISEP-TF) stationed at San Pablo, Isabela checkpoint also joined in the said activity.

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June 16, 2021 – Personnel of this Office together with other employees of the Governor's Office conducted clean-up drive within Capitol compound and Queen Isabela Park. Plastics and other solid wastes gathered were properly disposed.



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June 19, 2021 – Personnel of this Office together with the Isabela Environment Protection – Task Force (ISEP-TF) stationed at Jones, Isabela proceeded to Barangay Gucab, Echague and conducted simultaneous bamboo/tree planting and clean-up drive activities along the riparian buffers of Cagayan River. The LGU-MENRO led by Mr. Nemesio S. Castillo together with the Philippine National Police (PNP), Bureau of Fire Protection (BFP) and barangay officials from Gucab, Dammang East, Tuguegarao and Busilelao actively participated during the said activity. A total of 400 bamboo propagules and kupang seedlings were planted. In addition, plastics and solid wastes gathered in the clean-up activity were properly disposed.



June 24, 2021 – Three hundred fifty (350) bamboo propagules and kupang seedlings were planted during the bamboo/tree planting and clean-up drive activities conducted at Barangay Marasat Pequeño, San Mateo. In attendance were personnel of the Local Government Unit of San Mateo led by their LGU-MENRO Engr. Doree V. Magno, San Mateo and the Sam-iweng Dance Troup headed by Medz Cortez and Dimple Aquino.



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June 25, 2021 – The Environment and Natural Resources Office spearheaded by For. Geronimo P. Cabaccan, Jr. in close coordination with the Municipal Local Government Unit of San Agustin, led the simultaneous bamboo/tree planting and clean-up drive activities at Barangays Masaya Sur, Virgoneza and Quimalabaza, San Agustin, Isabela. Together with the Isabela Environment Protection – Task Force (ISEP-TF) stationed at Jones, Isabela assisted the LGU-MENRO staff in hauling the seedlings to the designated areas. A total of 350 bamboo propagules and kupang seedlings were planted by the residents from the abovementioned barangays and personnel from Bureau of Fire Protection (BFP). Acting Mayor Hon. Larry Mark Lloyd T. Guerrero also joined the activity supported by the other officials and employees.



June 30, 2021 – Closing activity for the celebration of Philippine Environment Month was held in Cabagan, Isabela. Simultaneous bamboo/tree planting activities were conducted at Barangays Pilig Alto and Pilig Abajo. LGU-MENRO, Ms. Maja-Layne Z. Edejer led the bamboo/tree planting at Pilig Alto wherein the PENRO, CENRO, BFP, PNP, Civil Society Organizations, LGU officials, SB Members and Department Heads spearheaded by Hon. Christopher Mamauag actively participated in the activity. At the same time, the ENRO staff together with the Barangay officials and volunteer residents led by Hon. Panchito P. Betay joined the bamboo/tree planting activity at barangay Pilig Abajo. A total of six hundred thirty (630) seedlings consisted of five hundred (500) bamboo propagules and eighty (80) kupang seedlings were planted along the riparian areas of Pilig Alto and Pilig Abajo with an estimated length of four (4) kilometers.





VII. ACTIVITIES UNDERTAKEN UNDER THE PHILIPPINES RURAL DEVELOPMENT PROJECT (PRDP) – SOCIAL AND ENVIRONMENTAL SAFEGUARDS (SES)

Prepared and submitted Social and Environmental Safeguard requirements for the following subprojects, to wit:

1. MARIIS Burgos SPC Warehouse with Solar Dryer, Caliguian, Burgos
2. Cabagan Warehouse with Solar Dryer, Cansan, Cabagan
3. San Guillermo Warehouse with Solar Dryer, Nacar, San Guillermo
4. Cauayan City Warehouse with Solar Dryer, San Pablo, Cauayan City
5. San Isidro Warehouse with Solar Dryer, Gomez, San Isidro
6. NMI Agri-Cooperative Warehouse, Nungnungan 2, Cauayan City
7. Pineapple Production and Marketing Enterprise, Magleticia, Echague

VIII. BAMBOO DEVELOPMENT PROGRAM

March 12, 2021 - Attended the launching of Bamboo Development Program at Isabela State University Cabagan Campus. The program was graced by the Hon. Antonio T. Albano, Congressman, 1st District of Isabela where he expressed his full support to the project. Representatives from other partner agencies, both national and local, also conveyed their active participation to ensure attainment of the project's objective. The Bamboo Development Program is an inter-agency project that also supports Provincial Executive Order No. 44 series of 2019 ensuring the implementation of Riparian Rehabilitation and Urban Greening Programs particularly along major river systems. After the program, ceremonial tree planting was held.

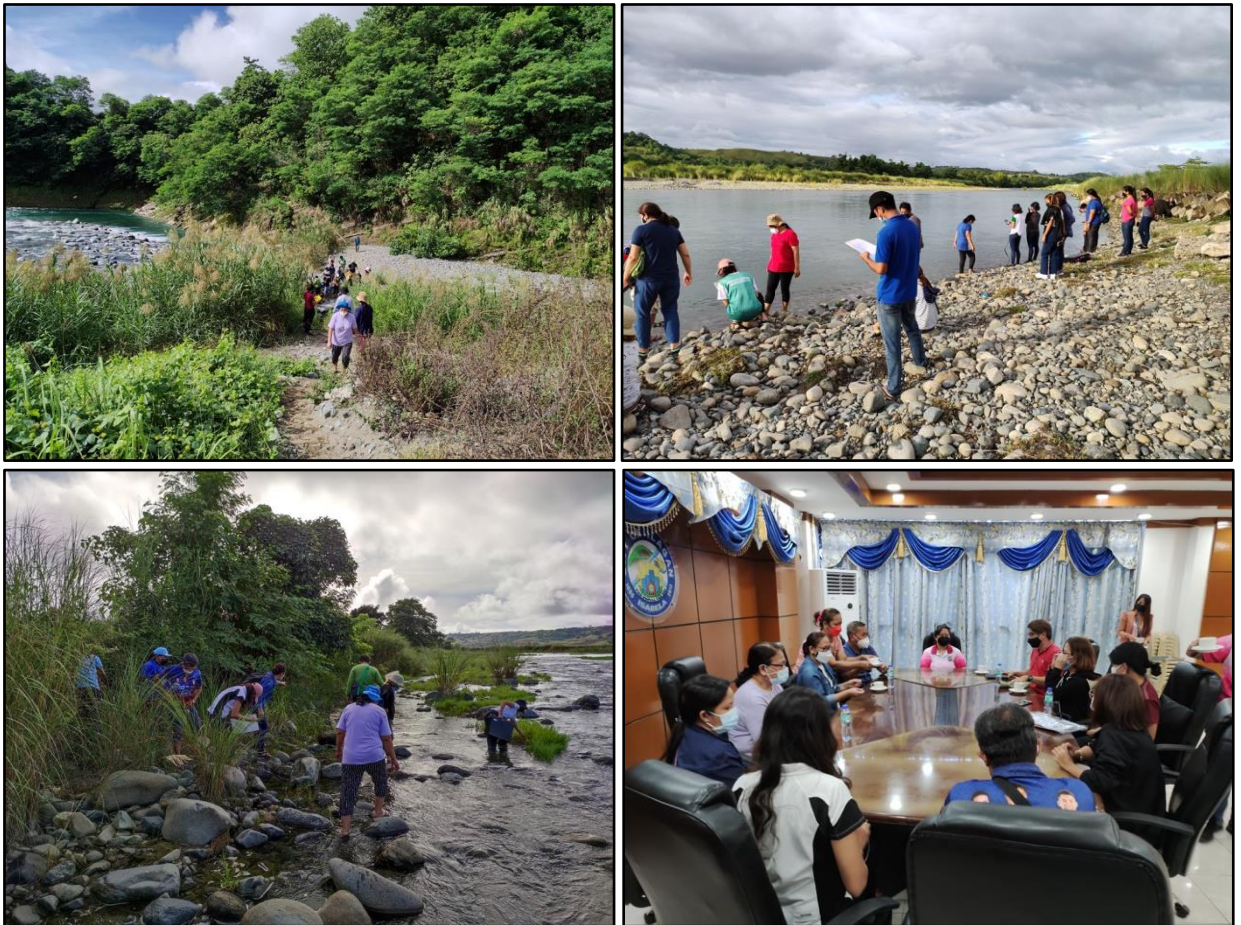


IX. PHILIPPINE BIOTIC INDEX ASSESSMENT ACTIVITY

November 17-19, 2021 – Personnel of this Office joined in the conduct of reconnaissance survey for the Philippine Biotic Index (PBI) Project together with representatives from the University of the Philippines Diliman – Institute of Biology, spanning the municipalities of San Pablo, Cabagan, Tumauni and City of Ilagan, Isabela. This activity aimed to assessed water quality of the rivers identified through its biotic components.

After courtesy visits and coordination with the respective Local Government Units, activities specifically conducted were survey and sampling of the following:

1. Pinacanauan River at Barangay Calamagui, San Pablo;
2. Upstream and downstream of Balasig River, within Masipi East and Balasig, Cabagan;
3. Upstream and downstream of Pinacanauan de Tumauni River, Antagan and Sisim Abajo, Tumauni;
4. Cumabao River, a tributary of Balasig River, Cumabao, Tumauni;
5. Pinacanauan de Ilaguen River, Cabisera 22, City of Ilagan



Some of the photos taken during the conduct of Philippine Biotic Index Assessment for the Pinacanauan River and some of its tributaries

X. **BENCHMARKING ON GREEN MUSSEL AND OYSTER FARMING**

September 14-17, 2021 – Personnel of this Office led by For. Geronimo P. Cabaccan, Jr., ENR Officer, together with other PGI officials and employees travelled to Cavite and conducted benchmarking activities relative to Green Mussel and Oyster Farming. The PGI employees were warmly welcomed by the Provincial Government of Cavite through a program held at Community Center of Barangay Sinaguelasan, Bacoor City, Cavite. After which, Atty. Vincent Miranda discussed the important information regarding green mussel and oyster culture; the processes, materials needed, manpower requirements and others. He also demonstrated what should be done to the bamboo poles before transporting and planting it to the target culture farm areas to ensure that green mussels/oysters will settle. Lastly, the group conducted field visit of the existing green mussel and oyster farms along Manila Bay and witnesses the actual planting of the bamboo poles and harvesting of mussels and oysters.

This information gathering was in aid to the Provincial Government's crafting of project proposal; replicating the same technology in the coastal municipalities of the province.



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XI. CONDUCT OF ASSESSMENT AND EVALUATION OF CERTIFICATE OF STEWARDSHIP CONTRACT (CSC) HOLDERS

Together with representatives from DENR through their CENROs, Municipal and concerned Barangay LGUs, this Office through its technical personnel joined the team in the conduct of CSC performance evaluation and assessment in the following ISF areas, to wit:

Date	Location	Output
January 27-28, 2021	Abut, Quezon	24 CSC holders assessed and evaluated
February 3-5, 2021	Salindangan, City of Ilagan	15 CSC holders assessed and evaluated
February 4-5, 2021	Masipi West, Cabagan	20 CSC holders assessed and evaluated
February 9-10, 2021	Binatug, San Mariano	13 CSC holders assessed and evaluated
February 16-19, 2021	Rizaluna, Cordon	28 CSC holders assessed and evaluated

Results of the evaluation and assessment were prepared by the technical staff of DENR-CENRO concerned and to copy furnished this office.



XII. SUPPORT TO NTF-ELCAC PROGRAMS ON REBEL RETURNEES

March 18, 2021 – Attended a meeting conducted by DENR-PENRO with 9 rebel returnees residing at Sitio Villa Cacho, Santiago, Quirino, Isabela regarding their concern and request to the Provincial Governor for a parcel of land to be cultivated for their livelihood as part of the government’s corresponding program of giving support as they reintegrate with the community. The meeting was also called due to issues on illegal occupancy of the said individuals in areas under the National Greening Program. It was agreed that the Rebel Returnees (RRs) can become beneficiaries of the NGP when they are properly organized, hence the DENR-PENRO committed that they shall prepare the draft Complete Staff Work (CSW) for the project areas subject to the approval of the Regional Director. After presenting the proposal with the RRs, they were advised not to abandon their current areas and can develop it according to the guidelines of NGP; otherwise they shall be ejected from the project.



Photos during the inspection and survey of the areas occupied by the nine (9) Rebel Returnees

July 22, 2021 – Attended another meeting with the Rebel Returnees (RRs) through the initiative of DENR-PENRO relative to the Memorandum of Agreement between the DENR and the 9 RRs. After discussion of the issues, the group conducted ocular visit and inspection of the farm lots and had the following observations, to wit:

1. Some of the areas awarded were already planted with agri-crops and fruit trees;
2. Based from the MOA, they were just allowed to maintain their respective huts to serve as shed during their working hours but not allowed to put up concrete dwelling houses; however it was observed that there were already 2 RRs who had started building a concrete foundation for dwelling and a fish pond;
3. The main issue raised was the alleged squatting by some residents of the Sitio to the areas awarded to the 2 RRs which created conflict;
4. The squatters destroyed the huts established by the 2 RRs but they cannot do anything except to give-in because some threats made by those that squatted the area;
5. The DENR resolved the issue by re-surveying the areas awarded to the 7 RRs and inserted the 2 displaced RRs;
6. One of the affected RRs did not favor the DENR’s resolution but later with much convincing words, he then abide with the final decision to accept the 2 displaced co-RRs since they were also members of their existing association.

Finally, reiterated to them that they should stick to the provisions of the MOA; that any violation thereof will be the basis of either cancellation or revocation of the said MOA.

XIII. COMMUNITY PANTRY

July 23, 2021 – Attended community pantry led by the Philippine Army and distributed assorted forest and fruit trees seedlings at Barangay Upi, Gamu, Isabela. The program started at 8:00 in the morning with the usual preliminaries. A welcome remarks was delivered by Punong Barangay George Gatering and followed by messages from the representatives of PGI-ENRO thru For. Rosemarie T. Zabala, CDO III/Designated Assistant ENRO, PLT. George Gines, PNP-Gamu MPS Deputy and LTC Glenn D. Soledad SC (GSC) PA, Acting Commanding Officer, 5th Signal Battalion, ASR, PA. The partnership between the three agencies aimed to provide assistance to the identified 90 indigents of Barangay Upi and at the end, the Provincial Government thru this Office was able to distribute 150 assorted forest and fruit trees seedlings to the beneficiaries.



XIV. SUPPORT TO BALIK-PROBINSYA BAGONG PAG-ASA (BP2) PROGRAM

In support to the beneficiaries of Balik-Probinsya, Bagong Pag-asa Program of the Provincial Government, this office committed to extend livelihood assistance through the provision of seedlings, specifically fruit-bearing trees. This can help the beneficiaries in their establishment of garden for food sustainability. For this year, there were eight (8) families provided with their requested fruit trees seedlings.



Photos during the delivery of the seedlings as requested by the BP2 beneficiaries

XV. *TODAS DENGUE, TODO NA 'TO*

In support of the Provincial Government of Isabela's annual conduct of Toda Dengue, Todo Na 'To, a massive and simultaneous clean-up of public and private spaces in observance of the National Disaster Resilience Month, personnel of this Office and ISEP-TF Operative members led by For. Geronimo P. Cabaccan, Jr., ENR Officer, conducted clean-up activities within the ENR Office compound, vicinities of monitoring checkpoints and in their respective homes on July 24 and July 31, 2021.



XII. OTHER TREE PLANTING ACTIVITIES

February 18, 2021 – Assisted and joined the PNP Personnel in their bamboo planting along Abuan River at Barangay Cabisera 10, City of Ilagan, Isabela. It was also attended by For. Geronimo P. Cabaccan, Jr., ENR Officer of the Isabela. A total of 100 bamboo propagules were planted during the activity.



July 8, 2021 - Assisted the Bureau of Fire (BFP) Provincial Office personnel relative to their region-wide simultaneous tree planting activity; with them are members of BFP, PNP and BJMP City of Ilagan. After a brief orientation, the activity started at 7:30 in the morning at Km. 21 and ended at Km. 23 planting a total of 1,100 Narra seedlings, planted at 2 strips. Members of the ISEP-TF Operatives also conducted protection and maintenance activities specifically brushing while assisting the planters.



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September 17, 2021 – In celebration of World Bamboo Day, personnel of this Office joined in the conduct of bamboo planting along Cagayan River at Barangay Lullutan, City of Ilagan, Isabela. The activity was also participated by other agencies particularly DENR-PENRO Isabela, City LGU of Ilagan, Barangay Officials of Lullutan and member of United Ilocandia, a civil society organization in the City of Ilagan.



November 19, 2021 – In observance of 2021 Global Warming and Climate Change Consciousness Week, this Office spearheaded a bamboo planting activity and clean-up drive along Abuan River at Barangays Cabisera 27 and Cabisera 10, respectively. Together with the Barangay Officials, a total of 200 bamboo propagules were planted and more or less 10 plastic bags of solid wastes was collected in the clean-up activity. Barangay officials were advised to take responsibility in ensuring the visibility of waste disposal materials in the area to avoid manifestation of improper waste disposal.



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Also, other personnel attended same event led by DENR-PENRO Isabela at Barangay Lullutan which specifically aimed to continue the initiative of planting held along the Cagayan River on September 17, 2021 where forest and fruit trees seedlings were planted in between the bamboos.



XIII. PUTTING-UP OF TREE IDENTIFICATION SIGNAGES IN PROVINCIAL CAPITOL COMPOUND



ENVIRONMENT AND NATURAL RESOURCES OFFICE

XIV. TRAININGS, SEMINARS AND WORKSHOPS ATTENDED

Date	Training/Seminar/Webinar/Workshop Title	Attendee/s
January 21, 2021	Union of Local Authorities of the Philippines, Inc. (ULAP) Dialogue with Development Partners Towards a Green Economy with Focused on Improving Access to Water Resources, Water Supply and Sanitation	CDO III Rosemarie T. Zabala
February 5, 2021	Capacity Enhancement on Operations of Composting Facilities for Biodegradable Wastes (CFBW)	CDA II Gina D. Ruiz CDA II J C Webster T. Sanchez
March 19, 2021	Capacity Building in the Management of COVID 19 related Healthcare Waste for Local Government Units	CDA II Phoebe T. Legawen
April 22, 2021	Build Back Better-Provincial Task Force Organization Meeting	ENRO Geronimo P. Cabaccan, Jr. CDO II Joyce N. Cabalonga CDO II Bladimir A. Pintucan
July 13, 2021	Environmental Law Enforcement Council (PELEC) Organizational Meeting	ENRO Geronimo P. Cabaccan, Jr. CDO II Bladimir A. Pintucan
July 28, 2021	Consultation Workshop on NSMNP Marine Protected Area Network	CDO III Rosemarie T. Zabala
September 7, 2021	Training Orientation of Promoting Agribusiness through Organic Agriculture	CDO III Rosemarie T. Zabala EMS II Dalisay A. Baligod CDA II Gina D. Ruiz CDA II Phoebe T. Legawen CDA II J C Webster T. Sanchez
September 22-23, 2021	Virtual National Conference of the Philippine League of Local Environment and Natural Resources Officers (PLENRO), Inc.	ENRO Geronimo P. Cabaccan, Jr. SEMS Celia N. Badua CDO II Teodorico S. Bagunu CDO II Bladimir A. Pintucan CDO II Joyce N. Cabalonga
September 30, 2021	PH-EITI Online Learning on Extractives (OnLearn) 2021, with the theme: "Resiliency in Transparency: The Community Experience"	ENRO Geronimo P. Cabaccan, Jr. SEMS Celia N. Badua CDO II Teodorico S. Bagunu
October 25-27, 2021	Virtual Appreciation Training on System of Environmental Economic Accounting for Region 02	CDO III Rosemarie T. Zabala CDO II Bladimir A. Pintucan CDO II Joyce N. Cabalonga
November 18-19, 2021	MGB Stakeholders' Forum: #MineResponsibility: Know Mine, Know Life	SEMS Celia N. Badua CDO II Teodorico S. Bagunu Engr I Ian B. Paguigan
November 25-26, 2021	Solid Waste Management Association of the Philippines (SWAPP) Conference with the theme: "Covid-19 Wastes: Responses and Challenges"	CDO III Rosemarie T. Zabala EMS II Dalisay A. Baligod CDA II Phoebe T. Legawen

Prepared & Submitted by:

BLADIMIR A. PINTUCAN
CDO II

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DALISAY A. BALIGOD	-Environmental Management Specialist Ii
SHIRLEY S. SIA	-Administrative Officer Iv
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FRANCISCO C. GALIZA, JR.	-Community Development Assistant Ii
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WILLIAM N. CORPUZ	-Community Development Assistant Ii
J C WEBSTER T. SANCHEZ	-Community Development Assistant Ii
JESSA C. RIVERO	-Community Development Assistant Ii
RODRIGO P. CABACCAN	-Driver
EDGARDO A. MALANA	-Utility Worker

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RICA MAE DIAZ	-Community Development Assistant I
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ESTEBAN V. ASUNCION	-Administrative Assistant I
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NELSON B. BULAUAN	-Administrative Assistant I
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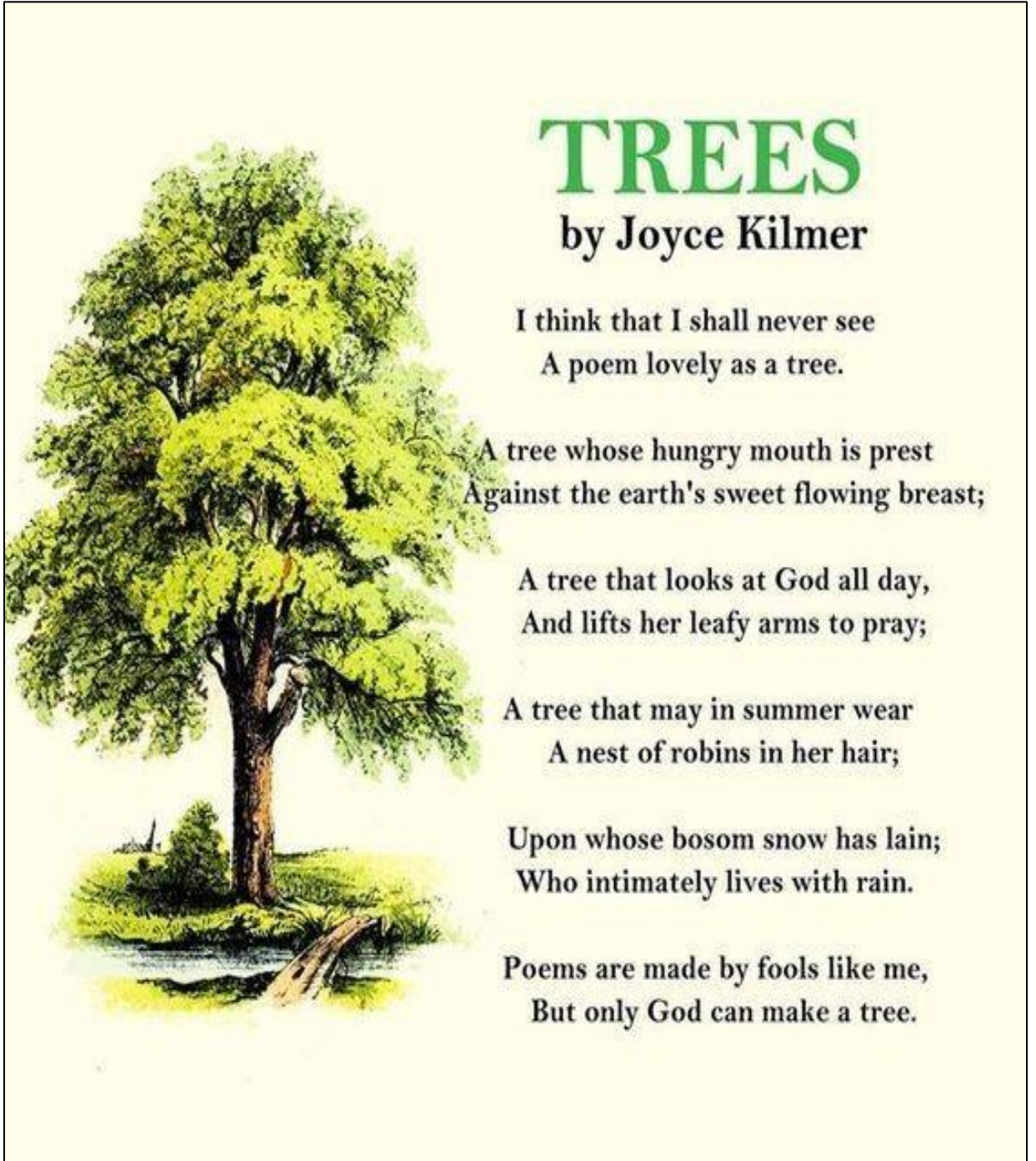
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CDO III/ Designated Asst. ENRO

Attested:

GERONIMO P. CABACCAN, JR.
ENR Officer



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.