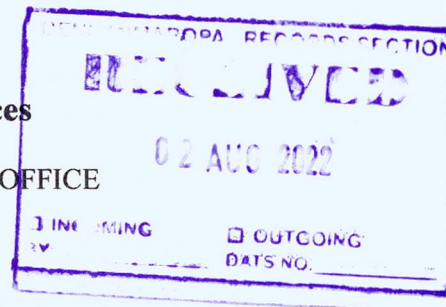




Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE
Bgy. Sta. Monica, Puerto Princesa City, Palawan
Telfax No. (048) 434 - 8791
Email Add: penropalawan@denr.gov.ph



July 19, 2022

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region
1515 L and S Bldg., Roxas Boulevard
Ermita, Manila

FROM : The Provincial Environment and
Natural Resources Officer

SUBJECT : **EVALUATION OF THE REHABILITATION PLAN SUBMITTED
BY THE LOCAL GOVERNMENT UNIT OF CORON, PALAWAN
FOR THE MOUNTAIN QUARRY SITUATED IN SITIO DIPULAO,
BARANGAY POBLACION 6, CORON, PALAWAN**

Respectfully forwarded is the memorandum of CENRO Coron, Palawan dated July 08, 2022 relative the above subject.

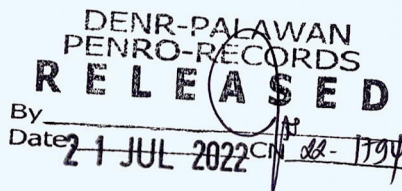
Per memorandum, CENRO Coron forwarded the evaluation of the team on the submitted rehabilitation plan of LGU Coron and commented to the following categories:

1. Overall document
2. Background/Rationale
3. Objectives
4. Stakeholders
5. Project Design
6. Project Strategies
7. Financial Details
8. Project Component and Implementation Schedule
9. Sustainability
10. Implementation Arrangements

For information and further instruction.


FELIZARDO B. CAYATOC

Copy Furnished
CENRO Coron, Palawan
File/2022-042ACG MES Doc. Ref. No. 2022-6310





Republic of the Philippines
Department of Environment and Natural Resources
Community Environment and Natural Resources Office
Barangay 5, Calamianes Island, Coron, Palawan
Telephone No. +63 917 504 2633

E-mail: cenrocoron@denr.gov.ph Website: www.denr.gov.ph

08 July 2022

MEMORANDUM

FOR : **The Regional Executive Director**
Department of Environment and Natural Resources
MIMAROPA Region


: **The Regional Director**
Mines and Geosciences Division
MIMAROPA Region

THRU : **The PENR Officer**
Provincial Environment and Natural Resources Office
Province of Palawan

FROM : **The CENR Officer**
Community Environment and Natural Resources Office
Coron, Palawan

SUBJECT : **EVALUATION OF THE REHABILITATION PLAN
SUBMITTED BY THE LOCAL GOVERNMENT UNIT OF
CORON, PALAWAN FOR THE MOUNTAIN QUARRY
SITUATED IN SITIO DIPULAO, BRGY. POBLACION 6,
CORON, PALAWAN**

DENR PENRO
PALAWAN RECORDS
RECEIVED

BY: 
DATE: 07/14/2022 22-6310

This has reference to the above-cited subject plan received by this Office on 05 July 2022.

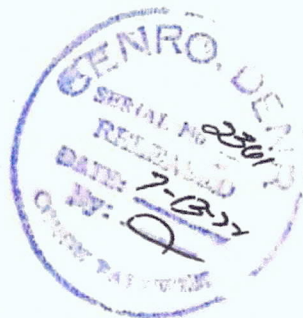
This is to respectfully inform your goof office that an evaluation of the rehabilitation plan was undertaken by the MGB Embedded Personnel, Ms. Casandra Lynda L. Jalac and Mr. Vann Ian O. Cadalso, both are Science Research Specialist II of MGB MIMAROPA.

Attached is the result of the evaluation for your information and consideration.

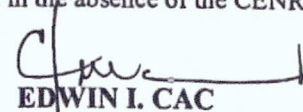
Enc'l: As stated

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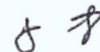
The Regional Director
Environmental Management Bureau
MIMAROPA Region



For and in the absence of the CENRO


EDWIN I. CAC
DMO IV

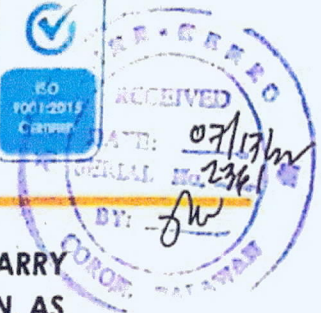
In-Charge of the Office of CENR





Republic of the Philippines
Department of Environment and Natural Resources
MINES AND GEOSCIENCES BUREAU
MIMAROPA Region

7/F DENR Building, 1515 Roxas Boulevard, Ermita, Manila
Telefax No. (+832) 536-0215 / (+832) 310-1369
Email: region4b@mgb.gov.ph



**EVALUATION OF THE REHABILITATION PLAN FOR MOUNTAIN QUARRY
SITUATED IN SITIO DIPULAO, BRGY. POBLACION 6, CORON, PALAWAN, AS
SUBMITTED BY LOCAL GOVERNMENT UNIT (LGU) – CORON, PALAWAN**

The subject area for rehabilitation is a 6-hectare land identified by the local government as a site for the construction of various government buildings (e.g. Stadium, Red Cross, etc.). Since the site was mountainous, a local construction company was contacted to quarry and flatten the site in exchange for the utilization of the quarried materials in a reclamation project. Due to various violations of the existing ENR laws, rules and regulations, CENRO-Coron issued an order on 30 June 2020 to stop the extraction activity in the area. In addition, the EMB MIMAROPA Region released a Notice of Violation for infringing Presidential Decree No. 1586.

After multiple safety and environmental infractions have been identified in connection with the quarry and reclamation activity, a technical meeting between the LGU, contractor, and DENR was held. A consensus was reached wherein the DENR ordered the LGU to rehabilitate the site and submit a rehabilitation plan to be reviewed by the MGB.

Hereunder are the following comments and recommendations and/or necessary points that should be considered and addressed by the LGU of Coron which is based on the result of the evaluation:

Topic	Comments	Recommendations
Overall document	The submitted documents lack a detailed description of how the rehabilitation will be achieved (e.g., actual topography and area of the mine, soil/rock classification)	Present detailed work program and site development plan for the rehabilitation. Should more material be removed to achieve slope stability, proper estimates of the total area should be included. A topographic survey using instruments such as RTK or total station may be employed to acquire appropriate ground data.

**"MINING SHALL BE PRO-PEOPLE AND PRO-ENVIRONMENT
IN SUSTAINING WEALTH CREATION AND IMPROVED QUALITY OF LIFE."**

Background/ Rationale		Add a location map and plot the boundaries of the said lot. Trace the quarry site and present the total area to be rehabilitated.
Objectives		"To help address and mitigate the impacts of quarrying to the ecosystem by conducting a rehabilitation and slope stabilization of the quarry area in a timely manner."
Stakeholders	The stakeholders were listed, however, no description or purpose was mentioned.	<p>Write a brief description of the possible contribution of the stakeholders (e.g. Local Residents - provide continuous monitoring of the quarry area after the rehabilitation).</p> <p>Properly coordinate with the concerned bodies to ensure the long-term success of the rehabilitation plan.</p> <p>A consultation with all the stakeholders must be conducted as they are also part of this plan.</p>
Project Design	<p>The design presented is not based on the actual area.</p> <p>It was mentioned that vegetation cover will</p>	<p>An actual ground survey must be first conducted to determine the exact dimension of the area. Upon the acquisition of the actual data, plan a detailed plan design and present how this will be attained.</p> <p>If the area is to be benched, present the plan bench dimension. It must be noted to maximize the materials that will be removed. The focus of benching should be to achieve a stable and safe slope as part of the rehabilitation plan. It should fit the results of conducted surveys and be based on actual ground data.</p> <p>The use of native species is highly recommended. A combination of grasses for short-term protection and</p>

	<p>be undertaken using appropriate species.</p> <p>Eco net is only suitable for preventing the erosion of small loose materials. It is not enough to stabilize steep slopes and prevent the mass movement of materials.</p>	<p>trees for long-term stabilization may be utilized. If topsoil will be used, add to where will be the material be sourced out.</p> <p>A proper drainage plan should also be considered to control the rate of erosion of the loose rocks and soil. A siltation pond of appropriate size may be employed.</p> <p>In view of the site being utilized for government facilities, the safety of the people should be a priority in the project design. Consider reducing the slope angle to improve the slope stability. The removal of overhanging and over-steepened slopes should be a priority. Also, consider the use of other slope stabilization methods.</p>
Project Strategies		<p>Present the mentioned "Quarry Rehabilitation Plan/ Detailed Engineering Design."</p> <p>The preparation of the Quarry Rehabilitation Plan/ Detailed Engineering Design by the Municipal Engineering Office should be urgent considering the possible risk of the overhanging rocks in the area.</p> <p>Provide a maintenance plan for the area. Proper and continuous monitoring of the site must be included in the maintenance plan to ensure long-term success of the endeavor.</p>
Financial Details	There is no basis, explanation, or breakdown for the listed budgetary requirement.	Provide a detailed budgetary breakdown once the actual work program and site development plan have been completed. The fund utilization must also reflect this work program.

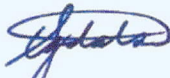
Project Component and Implementation Schedule	<p>The table presented is not easy to understand.</p> <p>Site preparation was listed for two months but there is no description regarding the activity within the submitted document.</p>	<p>Use the proper/common abbreviations of the months to avoid confusion.</p> <p>Provide detailed description of the activities that are included in this stage given that a two-month period is allocated in the timeline.</p> <p>The project timeline must be adjusted once the site development plan and work program have been prepared.</p>
Sustainability		<p>Consider the cooperation of other stakeholders in the monitoring such as the BLGU.</p>
Implementation Arrangements		<p>It should be noted the should no commercial utilization and disposition in connection to the rehabilitation program. The extracted material should be utilized as part of the rehabilitation activity.</p>

During the Interagency Task Force for Coron meeting held at the Office of Regional Executive Director of DENR MIMAROPA on June 23, 2022, it was recommended by MGB MIMAROPA that an actual topographic survey of the quarry sites be undertaken by the proponent to have detailed ground information and data necessary for the rehabilitation plan/design. A site development plan and work program must also be submitted.

Furthermore, it is recommended that the mined mountain quarry area should be prioritized for rehabilitation by the LGU – Coron and its contractor since there are structures and settlements built within its vicinity that may be impacted by landslide, rockfall, soil erosion, and other environmental-related hazards.

Prepared by:


CASANDRA LYNDAL. JALAC
 Science Research Specialist II
 MGB MIMAROPA Region


VANN IAN O. CADALSO
 Science Research Specialist II
 MGB MIMAROPA Region

QUARRY REHABILITATION PLAN



Barangay Poblacion 6, Coron, Palawan

Prepared by: Municipal Planning and
Development Office

I. PROJECT IDENTIFICATION

Project Title	:	QUARRY REHABILITATION
Proponent	:	MUNICIPAL GOVERNMENT OF CORON, PALAWAN,
Location	:	BARANGAY POBLACION 6, CORON, PALAWAN
Total Project Cost	:	THREE MILLION PESOS (P3,000,000.00)

II. PROJECT DESCRIPTION

A. Background/Rationale

The Municipal Government identified an area for the proposed Government Buildings and Facilities at Barangay Poblacion 6, Coron, Palawan. A total of 6 hectares were identified and portion of which are mountainous and hilly which need to be excavated and quarry to flatten the surface. The local government ask assistance to the local construction firm, 428 to quarry the area and in return the waste materials will be utilized for the reclamation at Barangay Poblacion 3 and Poblacion 5. Buildings and Facilities that will be establish in the area are 1. Stadium, 2. LTO Building 3. Regional Supreme Court 4. Integrated Terminal 5. STP 6. RAC Site.

The DENR MGB MIMAROPA had issued a Cease-and-Desist Order to the Mountain Quarry at the above-mentioned area. During the technical conference with the DENR and other stake holders, the DENR instructed the Local Government to submit a rehabilitation Plan prior to MGBs review and approval.

The Municipal Government of Coron is committed to prepare rehabilitation plan of the quarry sites at the proposed Government Buildings and Facilities at Bgy. Poblacion 6 and implement it as per plan and submit it to other concerned agencies.



B. Objectives

1. To rehab the quarry area
2. To ensure that the slope of the extracted area is safe and stable.
3. To help addressed and mitigate the impacts of the quarry to the ecosystem

C. Stakeholders

- a. Local Residence near the area
- b. Local Government Unit
- c. Barangay
- d. DENR MGB
- e. DENR EMB
- f. DENR CENRO
- g. PMRB
- h. PCSO
- i. DPWH
- j. LTO
- k. Supreme Court
- l. TIEZA
- m. ADB

D. Project Design

In rehabilitating and stabilizing the quarry area, the LGU will use Eco Net Technology for the Slope Protection (see attach design) in order to prevent erosion and rock fall as well. After stabilize, appropriate vegetation cover will undertake using appropriate species.

E. Project Strategies

The Quarry Rehabilitation Plan Detailed Engineering Design will be prepared by the Municipal Engineering Office. It will be subjected to competitive bidding process to ensure transparency and accountability. Maintenance of the project will be supervised by the Municipal Engineering Office and appropriate measure if necessary will be included in the plan.

III. FINANCIAL DETAILS

Budgetary Requirements

GRAND TOTAL	P/3,000,000.00
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IV. PROJECT COMPONENTS AND IMPLEMENTATION SCHEDULE

	A	S	O	N	D	J	F	M	A	M	J	J
1.Site Preparation												
2.Quarry Rehabilitation Works												
3.Slope Stabilization												
4.Monitoring and Evaluation												

V. SUSTAINABILITY

Regular monitoring and maintenance will be regularly done by the Municipal Engineering Office and EMB-DENR

VI. IMPLEMENTATION ARRANGEMENTS

The Quarry Rehabilitation will be supervised by the Municipal Engineering Office with technical assistance from the 428 Construction Firm. While monitoring and evaluation of the project will be lead by the Municipal Engineering Office and the Municipal Planning and Development Office.

VII. PROJECT OUTPUT/OUTCOME

Once the rehabilitation is complete will result in significant environmental and social benefits and the area will be safer and stable for any future development.

Prepared by:

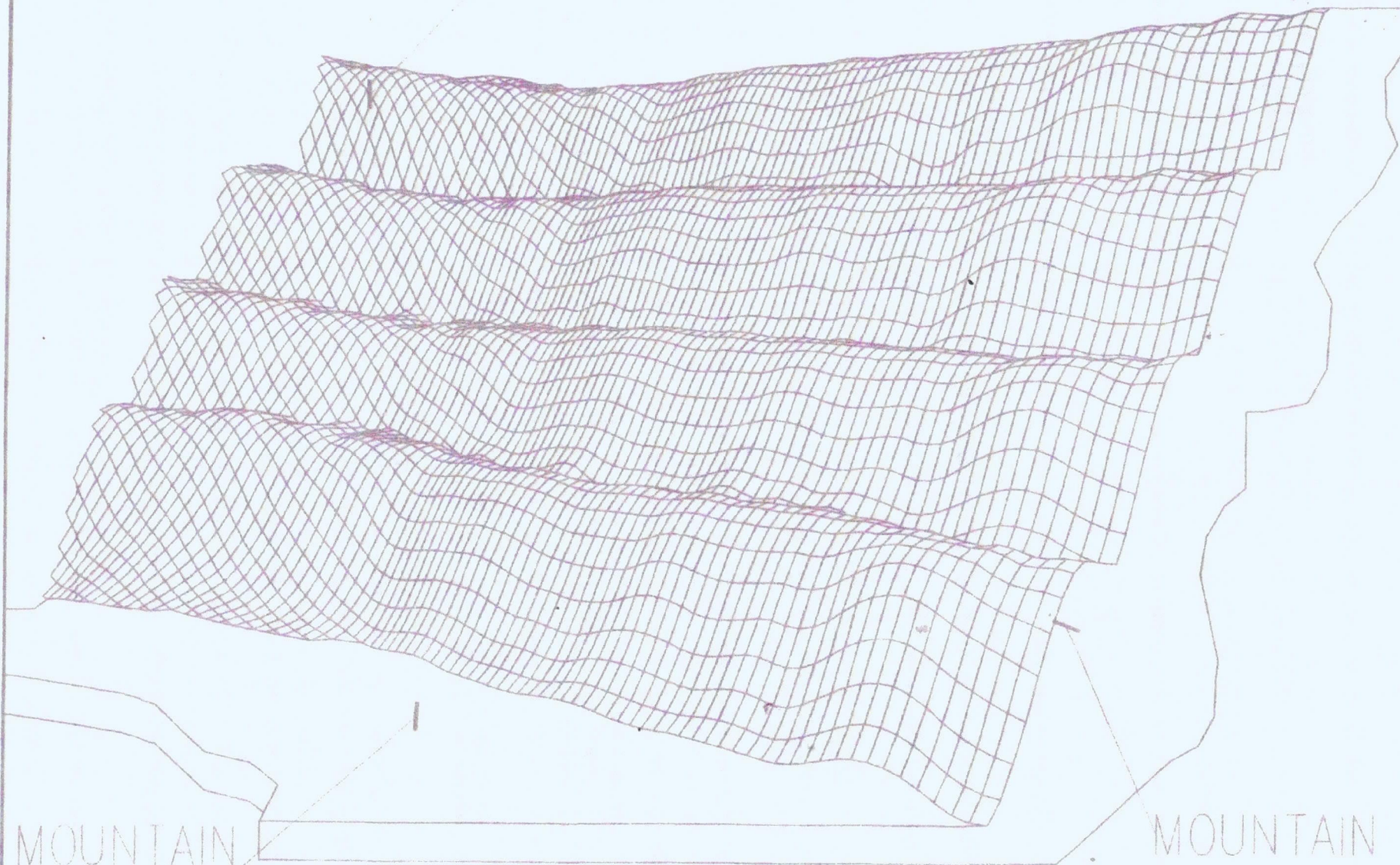
ENP/ENGR. MICHAEL ADRIAN TABABER, MPA, MAURP
MPDC

ENGR. IKE D. PARANGUE
Municipal Engineer

Noted and Approved:

MARIO T. REYES, JR.
Municipal Mayor

ECO NET



MOUNTAIN
SLOPE

MOUNTAIN
SLOPE

A ISOMETRIC VIEW & DETAIL
SCALE NOT TO SCALE

REVISIONS		
NO.	DESCRIPTION	DATE
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

PREPARED BY:
CHRISTIAN J. CALUGA
Agricultural Operator

CHECKED BY:
W. D. TORRES
Municipal Engineer

PROJECT TITLE:
PROPOSED ECO NET
SLOPE PROTECTION
MUNICIPALITY OF SAN MARCOS, PANGASINAN

APPROVED BY:
MARCOS REYES JR.
Municipal Mayor

CONTRACTOR:

ON 2020, Article IV section 30
Provision and Regulations and other Ordinance
Department Order No. 100,000, amended or revised, or
Department Order No. 100,000, on the subject of the
Department Order of the Department, under the Department Order No. 100,000,
they are made to comply or not, it shall be subject
for one person to distribute or to make copies of any
document, order, or any in the possession of any for any
purpose or business, under control party or in
whole, without the written consent of the Director or
other of said Department Order.

SHEET CONTENTS SHOWN
AS SHOWN

DESIGNED/CHECKED BY: COO	DATE: 01-05-2021
SCALE: DRAWN BY: AS SHOWN COO	DATE: 01-05-2021
SHEET NO. APPROVED BY: DATE:	
REVISION: DATE:	

A-02

