

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. (+632) 8536-0215 / (+632) 5310-1369 Email: region4b@mgb.gov.ph



14 August 2023

MEMORANDUM

FOR

The Regional Executive Director

Department of Environment and Natural Resources

MIMAROPA Region

FROM

The Regional Director

This Office

SUBJECT :

Request for an Interagency Meeting with LGU – Coron,

Palawan to Discuss the Slope Protection Plan (Phase 1) Implementation in the Rural Agriculture Center Site/

Quarry Area in Barangay 6, Coron, Palawan

This has reference to the Memorandum dated 8 August 2023 from the Community Environment and Natural Resources Office (CENRO) – Coron, Palawan on the site investigation report dated 7 August 2023 by the MGB MIMAROPA Embedded Personnel in CENRO – Coron, Palawan.

Considering the urgency to conduct a rehabilitation and/or construction of the slope protection due to the collapse/erosion of the quarry area in Barangay 6, Coron, Palawan, this Office concurs with the call for an Interagency Task Force for Coron meeting to tackle our way-forward on the matter as well as the status of the proposed rehabilitation of the three (3) quarry sites in Coron, Palawan.

For the Regional Executive Director's information and further instruction/s.



AINS AND GEOCHAES SIREAU MINAROPA Region FELIZARDO A. GACAD, JR.

Enc'l: Memorandum by CENRO – Coron dated 8 August 2023

Investigation Report by the MGB Embedded Personnel dated 7 August 2023

Bill of Materials for the Construction of the Slope Protection (Phase 1)

CC: The PENR Officer

Provincial Environment and Natural Resources Office

Province of Palawan

The CENR Officer

Community Environment and Natural Resources Office

Coron, Palawan

[CENRO-Coron] SITE INVESTIGATION REPORT OF THE RURAL AGRICULTURE CENTER (RAC) SITE AND MOUNTAIN QUARRY IN SITIO DIPULAO, BARANGAY 6, CORON, PALAWAN

From: Alessa Estorninos (alessaest.mgb4b@gmail.com)

mimaroparegion@denr.gov.ph To:

Cc: mines_4b@yahoo.com; penropalawan@denr.gov.ph

Date: Tuesday, August 8, 2023 at 03:00 PM GMT+8

AU - MIMAROPA REGIO

Greetings!

Respectfully forwarding a copy of the investigation report dated 07 August 2023 of the MGB -MIMAROPA Embedded Personnel regarding the above-cited subject.

For your consideration and timely action.

Kindly acknowledge receipt of this email.

Thank you very much.

Alessa "Les" Estorninos Science Research Specialist II Community Environment and Natural Resources Office - Coron Mines and Geosciences Bureau - MIMAROPA Department of Environment and Natural Resources

[CENRO-Coron] SITE INVESTIGATION REPORT OF THE RURAL AGRICULTURE CENTER (RAC) SITE AND MOUNTAIN QUARRY IN SITIO DIPULAO, BARANGAY 6, CORON, PALAWAN.pdf 7.6MB

Rd: Ma'am Conel



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 August 2023

MEMORANDUM

FOR

The Regional Executive Director

Department of Environment and Natural Resources

MIMAROPA Region

THRU

The Regional Director

Mines and Geosciences Bureau

MIMAROPA Region

The PENR Officer

Provincial Environment and Natural Resources Office

Province of Palawan

FROM

OIC, CENR Officer

Community Environment and Natural Resources Office

Coron, Palawan

SUBJECT

SITE INVESTIGATION REPORT OF THE RURAL AGRICULTURE

CENTER (RAC) SITE AND MOUNTAIN QUARRY IN SITIO

DIPULAO, BARANGAY 6, CORON, PALAWAN

Respectfully forwarding a copy of the investigation report dated 07 August 2023 of the MGB –MIMAROPA Embedded Personnel regarding the above-cited subject.

Constant rains brought by the Southwest Monsoon or *Habagat* have affected the nearby establishments in the quarried area of the Rural Agriculture Center (RAC) Site in Sitio Dipulao, Barangay 6, Coron, Palawan. During heavy rains, silt flows through the massive scarp and goes directly to the national road and establishments across the street. This was evident last 25 July 2023.

We have already requested LGU Coron through the Municipal Planning and Development Office to expedite the rehabilitation activity in the quarry site through a letter dated 21 September 2022. Accordingly, the Municipal Engineering Office of LGU Coron has submitted a slope protection plan (Phase I) to mitigate the effects of landslides in the quarry site with an estimated cost of PhP 5,000,000.00.

We recognize the importance of a rehabilitation plan before beginning the project. However, due to the urgency of the matter, we concur with the construction of the slope protection plan (Phase I) proposed by LGU Coron. Provided that they commit to submitting a rehabilitation plan even after the approval of the Phase I project for the safety and well-being of our stakeholders.

In this regard, we request your office to call for an interagency meeting with LGU Coron to discuss the slope protection plan (Phase I) implementation in the RAC Site.

For your consideration and timely action

RODNEY G. VERIAN

Department of Environment and Natural Resources

COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

MIMAROPA Region

Coron, Palawan

07 August 2023

DATE: 68/07/23

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MEMORANDUM

FOR

The Community Environment and

Natural Resources Officer

Coron, Palawan

FROM

The Undersigned

SUBJECT

SITE INVESTIGATION REPORT OF THE RURAL AGRICULTURE CENTER (RAC) SITE AND MOUNTAIN

QUARRY IN SITIO DIPULAO, BARANGAY 6, CORON,

PALAWAN

The undersigned conducted a site investigation last 03 August 2023 in response to the request of the Municipal Disaster Risk Reduction and Management Office (MDRRMO) of the Municipality of Coron, Palawan.

Background Information

The MDRRMO requested DENR-Coron through a letter dated 21 July 2023, to assist and provide technical assistance in relation to possible intervention and mitigation of the erosion and landslide-prone areas in the RAC site and mountain quarry in Sitio Dipulao, Brgy. 6, Coron, Palawan (Annex 1).

Purpose and Scope

The inspection includes an ocular inspection of the site, photo documentation, and a verbal interview with Engr. Ike D. Parangue and Engr. Yrrol Joy M. Furza of the Municipal Engineering Office of LGU Coron.

Findings and Observations

1. The subject area is the RAC Site in Sitio Dipulao, Barangay 6, Coron, Palawan. It is geographically situated at 12°1′12.00" N, 120°11′20.00" E (Figure 1). It is approximately 2 kilometers from CENRO, which is reachable by a 5-minute motorcycle ride.

DENR, Calle Nueva, Coron Town Proper, Coron, Palawan Contact Nos.: 0917-504-2633

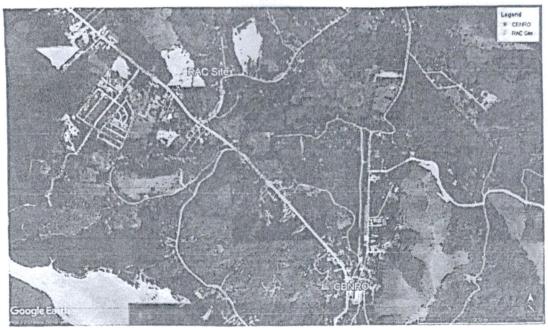


Figure 1. Location Map of the inspected RAC Site

- 2. The undersigned went to the Municipal Engineering Office of Coron to discuss their slope protection plan (Annex 2) for the subject area. According to Municipal Engineer Ike D. Parangue, Phase I of the sope protection project covers a total of 1,200 sq. m. Based on the Program of Works and Bill of Materials, the estimated project cost is PhP 5,005,924.22 (Annex 3). Moreover, the project will be in 10 phases with a total estimated cost of PhP 31,565,228.63 (Annex 4).
- 3. The undersigned also followed up with Mr. Michael Fababeir of the Municipal Planning and Development Office (MPDO) regarding the revised rehabilitation plan for the subject area. He mentioned they have yet to revise the plan and are waiting for another interagency meeting.
- 4. Please see the following communications in relation to the rehabilitation plan of the subject area:

Date	Subject	Date Released	Recipient	Date Received
21 September 2022	Request to Expedite the Rehabilitation Activity of the Quarry Site in Sitio Dipulao, Brgy. 6, Coron, Palawan	21 September 2022	MPDO	22 September 2022
20 September 2022	Investigation Report on the Landslide in the Mountain Quarry in Sitio Dipulao, Brgy. Poblacion 6, Coron,	21 September 2022	PENR Officer	N/A

Page 2 of 5

	Palawan			
N/A	Evaluation of the Rehabilitation Plan for Mountain Quarry Situated in Sitio Dipulao, Brgy. Poblacion 6, Coron, Palawan, as Submited by Local Government Unit (LGU) - Coron, Palawan	N/A	MPDO	18 July 2022
08 July 2022	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	13 July 2022	For RED, RD of MGB MIMAROPA Thru PENR Officer	N/A

- 5. During the site inspection, a part of the quarry has collapsed. It is observed to be debris and silt flow (Photo 1). A small spring is on top of the quarry site, continuously flowing down through the collapsed site (Photo 2).
- 6. The presence of the spring and onset of continuous rain increases the effect of landslides and erosion in the area, as observed last 25 July 2023. Heavy rain and strong winds brought by Southwest Monsoon intensified by Super Typhoon Egay affected the nearby establishments in the quarry site and national road (Photo 3).
- 7. With this, the Municipal Engineering Office of Coron requests to proceed with the slope protection (Phase I) construction. Engr. Parangue also mentioned that the fund is readily available and requests DENR to allow them to implement the project to mitigate the effects of the landslide, especially during the rainy season.

Comments and Recommendations

- For CENRO-Coron to request DENR MIMAROPA for an interagency meeting in line with the rehabilitation plan of the quarry sites, especially the RAC Site in Sitio Dipulao, Brgy. 6, Coron, Palawan.
- 2. Since the project will be long-term (10 phases), the Municipal Engineering Office of Coron shall submit an updated rehabilitation plan for the entire project.

For your reference, record, and further instruction(s).

Alessa Anne S. Estorninos Science Research Specialist II

MGB MIMAROPA - Embedded Personnel

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Photo Documentation



Photo 1. Debris and silt flow. Source of the silt flowing to the national road and nearby establishments.



Photo 2. The presence of a small spring on top of the quarry site continuously flows down through the collapsed area.



Photo 3. Presence of silt on the national road and nearby establishments due to the heavy rain and strong winds brought by Southwest Monsoon intensified by Super Typhoon Egay.





Republic of the Philippines Province of Palawan MUNICIPALITY OF CORON MUNICIPAL DISASTER RISK REDUCTION MANAGEMENT OFFICE

July 21, 2023

MR. RODNEY VERIAN
DENR Region IV-B MIMAROPA
OIC-CENRO Coron, Palawan
Brgy. Poblacion VI, Coron, Palawan

ENGR. JASON V. DE LOS REYES OIC District Engineer DPWH Coron, Palawan Region IV-B MIMAROPA

MARIA THERESA J. CASARENO Project Officer III PMRB Monitoring & Enforcement Team

Subject: Request of Assistance for Erosion and Landslide-Prone Area

Dear Sir/Madam,

Warm greetings!

The MDRRMO is responsible for overseeing and assessing the safety of everyone in the Municipality. In line with this, we have conducted an inspection of the area at RACSITE, Barangay Poblacion 6, Coron, Palawan, last July 19,2023. It has been observed that the area shows clear indications of soil erosion and rockfall. With the onset of the rainy season, this could eventually lead to a landslide which could cause disturbance to the adjacent National Highway as it could make the road slippery. We are deeply concerned about the significant impact on the safety of the general public, particularly the daily commuters who rely on this road.

Furthermore, on behalf of LGU Coron, we kindly request the support and assistance of the DENR-CENRO, PMRB, and DPWH for the documents needed for the intervention and mitigation measures for the said area.

We are hoping for your immediate and timely response to this matter. It is our goal to ensure to the best of our effort that we can provide peace of mind to our residents and tourist as their safety while they are within our municipality is at stake.

Thank you very much. Godbless!

Sincerely,

ENGR. HERNANDO A. LOPEZ

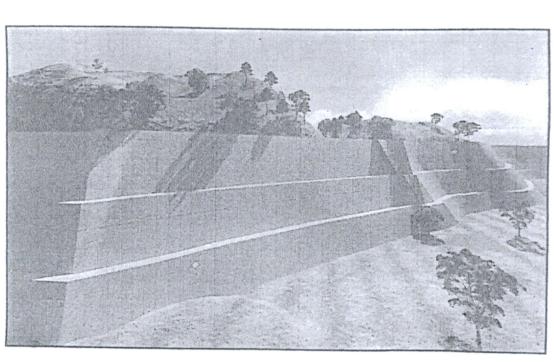
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Noted by:

MARIO T. REYES JR

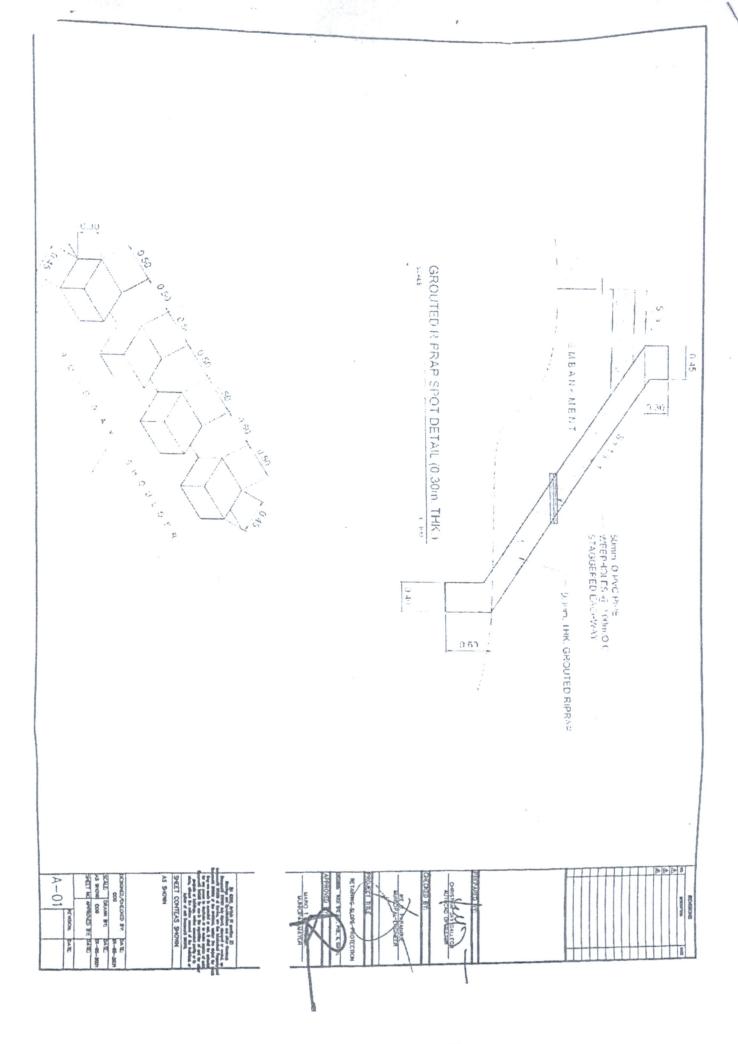
Municipal Mayor

DATE: 3/2

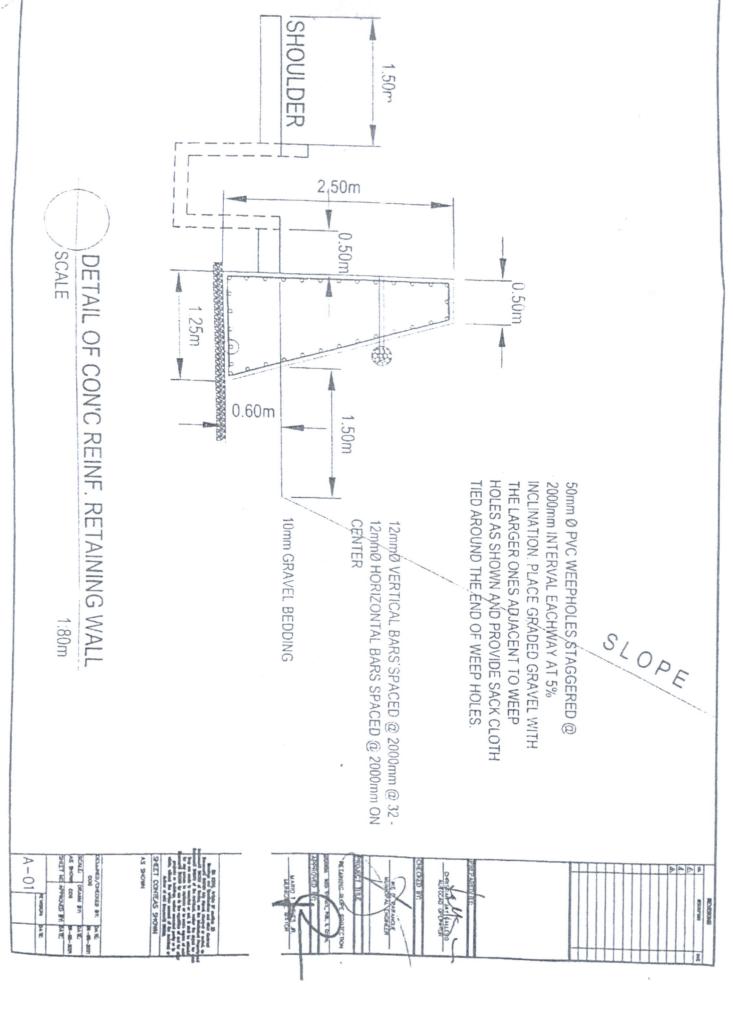


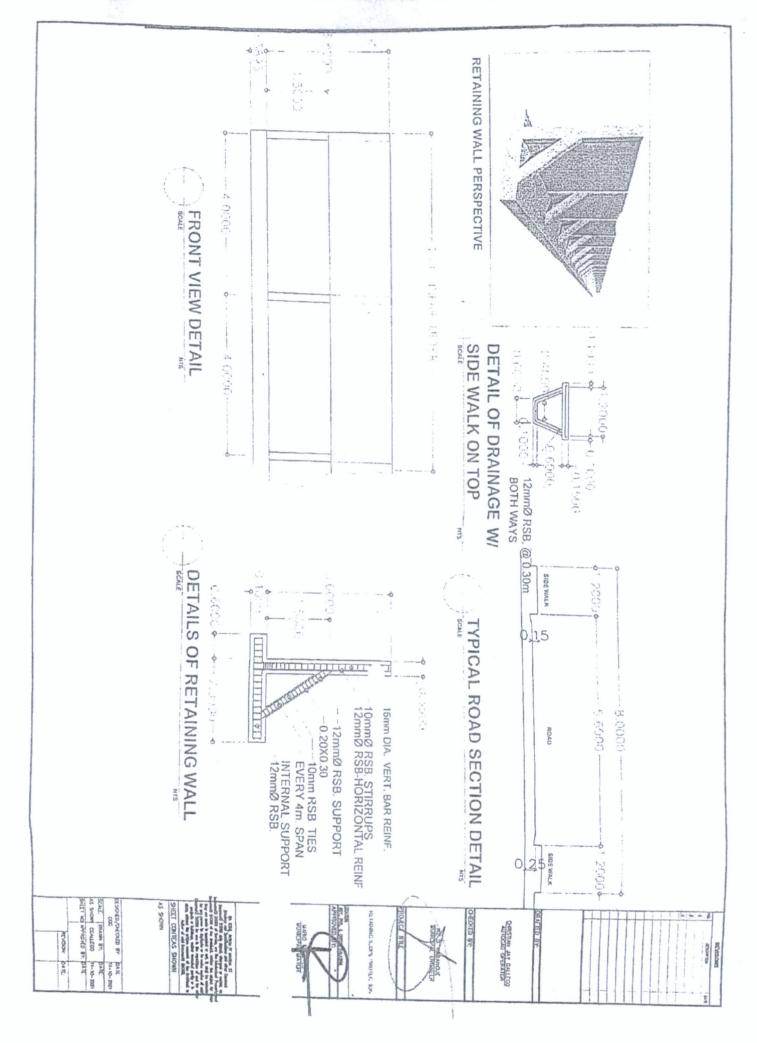
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Republic of the Philippines Province of Palawan Municipality of Coron

OFFICE OF THE MUNICIPAL ENGINEER PROGRAM OF WORKS AND BILL OF MATERIALS

Name of Project: Construction of Slope Protection (Phase I)

Location: RAC Site, Brgy. Pob. 6, Coron, Palawan

Covered Area: 1,200 sq.meters

IMPLEMENTATION: By Contract Starting Date: Upon Approval

CAL DAYS TO COMPLETE: 150 Cal. Days

Bill of Materials:

ITEM	DESCRIPTION:	QUANTITY	UNIT	UNIT PRICE	-TOTAL AMOUNT
1	Portland Cement	2500	bags	270.00	675,000.00
2	Grave 3/4	350	cu.m	2,300.00	805,000.00
3	Fine Sand	150	cu.m	2,200.00	330,000.00
4	12mm Ø RSB	· 1250	pcs	280.00	350,000.00
5	16mm Ø RSB	700	pcs	480.00	336,000.00
6	Tie Wire o. 16	250	kls	90.00	22,500.00
7	1/2 x 4 x 8 Penolet Board	100	pcs	1,250.00	125,000.00
8	2 x 3 x 12 Coco-Lumber	800	pcs	210.00	168,000.00
9	2 x 2 x 12 Coco-Lumber	300	pcs	140.00	42,000.00
10	10mm Ø RSB	300	pcs	180.00	54,000.00
11	Hacksaw Blade	30	pcs	75.00	2,250.00
12	CWN 4"	6	boxes	2,000.00	12,000.00
13	CWN 3"	4	boxes	2,000.00	8,000.00
14	CWN 2"	2	boxes	2,000.00	4,000.0
15	PVC Pipe 3Ø	100	pcs	600.00	60,000.0
				Material Cost:	2,993,750.00

BREAKDOWN OF ESTIMATED COST:

Materials Cost:

2,993,750.00

Labor Cost:

898,125.00

ESTIMATED TOTAL PROJECT COST:

3,891,875.00

Indirect Cost:

OCM 12.5%:

486,484.38

PROFIT 10%:

389,187.50

VAT 5%*(DC+PROFIT):

309, 107.30

TOTAL INDIRECT COST:

238,377.34 1,114,049.22

ESTIMATED TOTAL PROJECT COST:

PHP 5,005,924.22

SAY>>>>>>

PHP 5,000,000.00

Prepared By:

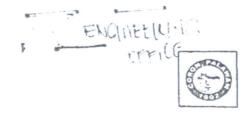
Approved:

ENGR. IKE D. PARANGUE

Aufritinal Chainness

HON. MARIO T. FETES JR.

Municipal Mayor



Republic of the Philippines Province of Palawan Municipality of Coron OFFICE OF THE MUNICIPAL ENGINEER



PROGRAM OF WORKS AND BILL OF MATERIALS

PROJECT: Construction of Slope Protection & Retaining Wall Design

LOCATION: RAC Site Bgy. Pob. 6, Coron, Palawan

Covered Area: 1,200 Sq.mtrs

IMPLEMENTATION: By Contract
CAL.DAYS TO COMPLETE: 560 Working Days
STARTING DATE: Upon Approval

. GENERAL REQUIREMENTS

MATERIALS

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTALAMOUNT
Warehouse & Quarters	1	lot	100,000.00	100,000.00
Signage	2	pcs	10,000.00	20,000.00
	120,000.00			

ILL OF MATERIALS:

DESCRIPTION	QUANTITY	STATE UNIT	UNIT PRICE	TOTAL AMOUNT
Portland Cement	15000	bags	270.00	4,050,000.00
Gravel 3/4	2000	cu.m	2,300.00	4,600,000.00
Fine Sand	1000	cu.m	2,200.00	2,200,000.00
12mmØ RSB	10000	pcs	280.00	2,800,000.0
16mmØ RSB	5000	pcs	480.00	2,400,000.0
Tie Wire No. 16	1750	kls	90.00	157,500.0
1/2 x 4 x 8 Penolet Board	1000	pcs	1,250.00	1,250,000.0
2 x 3 x 12 Coco-Lumber	5000	pcs	210.00	1,050,000.0
2 x 2 x 12 Coco-Lumber	1500	pcs	140.00	210,000.0
10mmØ RSB	1500	pcs	180.00	270,000.0
Hacksaw Blade	150	pcs	75.00	11,250.0
CWN 4"	30	boxes	2,000.00	60,000.0
CWN 3"	20	boxes	2,000.00	40,000.0
CWN 2"	10	boxes	2,000.00	20,000.0
PVC Pipe 3"Ø	200	pcs	600.00	120,000.0
IPMENT REQUIRED: Fuel & Oil Lubricants (AV/	ALL ARLE CORON-I		MATERIAL COST	19,238,750.0
DESCRIPTION	Market Street, and the Control of the Assessment of the Street, which the Control of the Street, which	production of the second secon	UNIT PRICE	TOTAL AMOUNT
3-units Backhoe 0.5 cu.m Capacity				
2-units Dumptruck				
2-units Transmit Mixer w/ Pump				
1-unit Water Truck				
Diesel	2000	, lit.	70.00	140,000.0
Gasoline	400	lit.	85.00	34,000.0
Oil 40	60	pails	1,600.00	96,000.0
Oil 10	10	pails	4,000.00	40,000.0
	10	pails	14,000.00	40,000.0
And the state of t		50	UIPMENT COST	310,000.0

αροίνη OF ESTIMATED COST:

(Refer to Detailed Estimates)

A.) DIRECT COST:

Materials Cost	19,358,750.00
Labor Cost	5,807,625.00
Equipment Required	310,000.00
ESTIMATED DIRECT COST	25,476,375.00

B.) INDIRECT COST:

Contractor's profit (8% of EDC)	2,038,110.00
OCM (10% of EDC)	2,547,637.50
VAT (5% of EDC,OCM & Profit)	1,503,106.13
ESTIMATED INDIRECT COST	6,088,853.63

ESTIMATED	PROJECT	COST	>>>>>>	31,565,228.63
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Prepared By:

Municipal Engineer

Approved by:

HON. MARIO T. BESTES JR

Municipal Mayor