



Republic of the Philippines
**DEPARTMENT OF ENVIRONMENT AND NATURAL
RESOURCES**

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MEMORANDUM

TO : **MARIA LOURDES G. FERRER**
Regional Executive Director, Region 4B

FROM : The Assistant Secretary for Field Operations Visayas
Alternate Representative to the BP2 Council

SUBJECT : **FINAL PROPOSAL FOR THE BALIK PROBINSYA
BAGONG PAGASA (BP2) PROGRAM**

DATE : September 20, 2021

In a memorandum, dated March 26, 2021, that you emailed in response to OASECFOV memorandum, dated March 18, 2021 (requiring all Regions to submit their final proposal for the BP2 Program), you delisted as proposed BP2 resettlement site, the initially proposed area in Sitio Tagbato, Brgy. Salvacion, Puerto Princesa and retained the area in Mamburao, Occidental Mindoro.

In view of this recent change in the proposed resettlement sites, and considering that there is a request from the Cabinet Secretary to find a resettlement site in Palawan, kindly submit your final proposal for the BP2 Program to confirm the following:

1. The Region's final resettlement site for the BP2 Program – (if the area in Mamburao, Occidental Mindoro is Region's only proposed resettlement site or would it find additional areas in other provinces – especially in Palawan, as replacement area for the delisted one, considering the request of the Cabinet Secretary);
2. The final proposed area of Region 4B is viable for the BP2 Program – thus, the final proposal should contain the following sections:
 - a) Description of the geophysical features of the areas;
 - b) Description of the geohazard susceptibility of the areas (with attached MGB certifications);
 - c) Description of potential livelihood and/or employment opportunities in the areas;
 - d) Description of existing infrastructure developments in the areas (for long term development of the BP2 resettlement site);
 - e) Budget requirements and schedules (if the proposal involves implementing projects);

In case you need a reference, we are attaching Region 8's Final Project Proposal.



JOSELIN MARCUS E. FRAGADA, CESO III

Cc:

BENNY D. ANTIPORDA

Undersecretary for Solid Waste Management and Local Government Unit Concerns
Representative, BP2 Council

GAVIN D. EDJAWAN, MNSA

Head Executive Assistant



Republic of the Philippines
Department of Environment and Natural Resources
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Document No: DENRCO - AS RMD-2021-011233 Print Date: Tuesday, April 27, 2021
Sender: TIRSO P. PARIAN, JR.
Address: DENR R6 TACLOBAN CITY
Subject: MEMO DTD 03/31/2021 SUBMISSION OF UPDATED PROJECT PROPOSALS FOR THE BALIK PROBINSYA, BAGONG PAGASA (BP2) PROGRAM-EASTERN VISAYAS W/ RING BIND
Addressee(s): Office of the Assistant Secretary for Field Operations - Visayas (DENRCO - OASECFOV)
CC Addressee(s):
Date/Time Received: 04/27/2021 12:08:00 PM

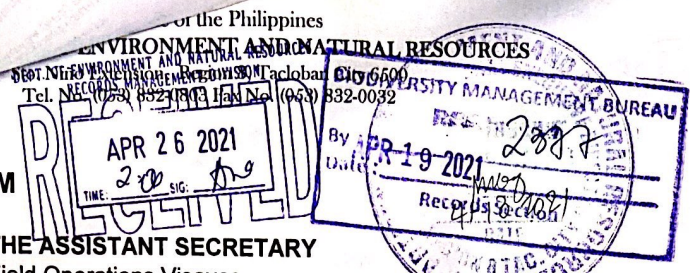
| ROUTING AND ACTION INFORMATION | | | | |
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| FROM | DATE/TIME RECEIVED | FOR/TO | DATE/TIME RELEASED | ACCEPTANCE REMARKS/ACTION REQUIRED/TAKEN REMARKS/STATUS |
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Encoder: Fernandez, Anna Theresa S.

Page 1 of 1

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MEMORANDUM

FOR : THE ASSISTANT SECRETARY
Field Operations Visayas
ALTERNATE REPRESENTATIVE TO THE BP² COUNCIL
DENR, Visayas Avenue, Diliman
Quezon City

FROM : THE REGIONAL EXECUTIVE DIRECTOR
DENR Region VIII, Tacloban City

SUBJECT : SUBMISSION OF UPDATED PROJECT PROPOSALS FOR THE BALIK
PROBINSYA, BAGONG PAGASA (BP²) PROGRAM- EASTERN
VISAYAS

DATE : March 31, 2021

In compliance with your Memorandum dated March 18, 2021, we are submitting herewith the updated BP2 project proposals for the Balangkayan, Eastern Samar; Llorente, Eastern Samar; San Isidro, Northern Samar; and Burauen, Leyte sites.

Incorporated in said proposals are information re: existing infrastructure development needed for long-term development, budgetary requirements, and project schedule, which are the lacking information from the proposals we submitted last May 22, 2020 and August 17, 2020.

Meanwhile, please be apprised that we sent a Memorandum to PENRO-Leyte dated March 24, 2021, instructing said office to search for more lands within their area of jurisdiction for resettlements sites, which must suit the criteria for short, medium and long-term development sustainability. Once we receive said information, we will dispatch a team composed of technical staff from the Conservation and Development Division, Enforcement Division, Survey and Mapping Division, a geologist from the Mines and Geosciences Bureau, staffs from PENRO-Leyte and concerned CENR Office to conduct site inspection and validation. Thereafter, we will craft the project proposal(s).

For your information, evaluation and further instruction.

TIRSO P. PARIAN, JR., CESO IV

Encs.: a/s

T-1969-21
APR 23 2021

PROJECT PROPOSAL

TITLE: PROPOSED AREAS FOR THE BALIK PROBINSYA, BAGONG PAGASA (BP²) PROJECT SITES IN EASTERN VISAYAS

RATIONALE

Globally, the nexus between migration and development has remained an issue for several decades already. As such, the process of people migrating to other areas in search of a better life is not a novel one. What has however gained prevalence is the increasing voluntary movement in quest of better quality of life from less developed rural areas to more developed urban areas.

In this regard, rural-urban migration results from the search for perceived or real opportunities as a consequence of rural-urban inequality in wealth. This disparity and/or urban bias in development results from the overwhelming concentration of wealth, assets, purchasing capacity, economic activities, and variety of services in the urban centers.

Locally, this has been made manifest in heavily congested metropolises such as Metro Manila or the National Capital Region, which is the center of culture, economy, education and government of the Philippines, and home to 12.8 million populace as of the 2015 Census.

Against the backdrop of the COVID-19 pandemic and climate change, the government saw it fit to implement a program designed to alleviate overcrowding in the metropolis, hence the Balik Probinsya, Bagong Pagasa Program (BP²) was enacted through Executive Order No. 114. This aims to provide a balanced regional development program, and to attain rural prosperity through equitable distribution of wealth, resources and opportunities. Relatedly, if we are to fulfill our goal of being the next Asian miracle, we need to bring the growth in Metro Manila to other areas within the country. Positive sustainability must be combined with projects and policies that promote dynamic comparative advantage and poverty reduction. With this program, the facilitative role of government especially in transforming the vicious cycle into a virtuous cycle is brought to the fore.

SITE IDENTIFICATION

The Conservation and Development Division (CDD) together with the Enforcement Division (ED) and MGB representative identified proposed project sites specifically untenured forest lands for the BP² Program, based on records available at the Regional Office.

A team composed of technical staff from CDD, ED and a geologist from MGB8 was then dispatched to reconnoiter and validate on the ground the proposed project sites.

Briefing and coordination with the concerned PENR and CENR Officers, and LGUs/Municipal Planning and Development Coordinators and barangays were done.

In collaboration with the particular LGUs and PENR and CENR Offices staff, the team conducted site validation taking into account the criteria- outside of a tenured area, accessible, and habitable, i.e., not vulnerable to landslide and flood.

To fast track the site validation and assessment, and considering the expanse of the proposed sites, the use of a drone was necessitated to take real time data/information and aerial photos.

For Eastern Visayas, there are four (4) proposed sites located in the provinces of Eastern Samar, Northern Samar and Leyte. For Eastern Samar, these are located at Barangays Caisawan and Cantubi in the town of Balangkayan; and Barangays Maca-anga and Barobo in the municipality of Llorente. For Northern Samar, it is situated at Happy Valley in the town of San Isidro. For Leyte, it is at Barangay Villa Corazon in the municipality of Burauen.

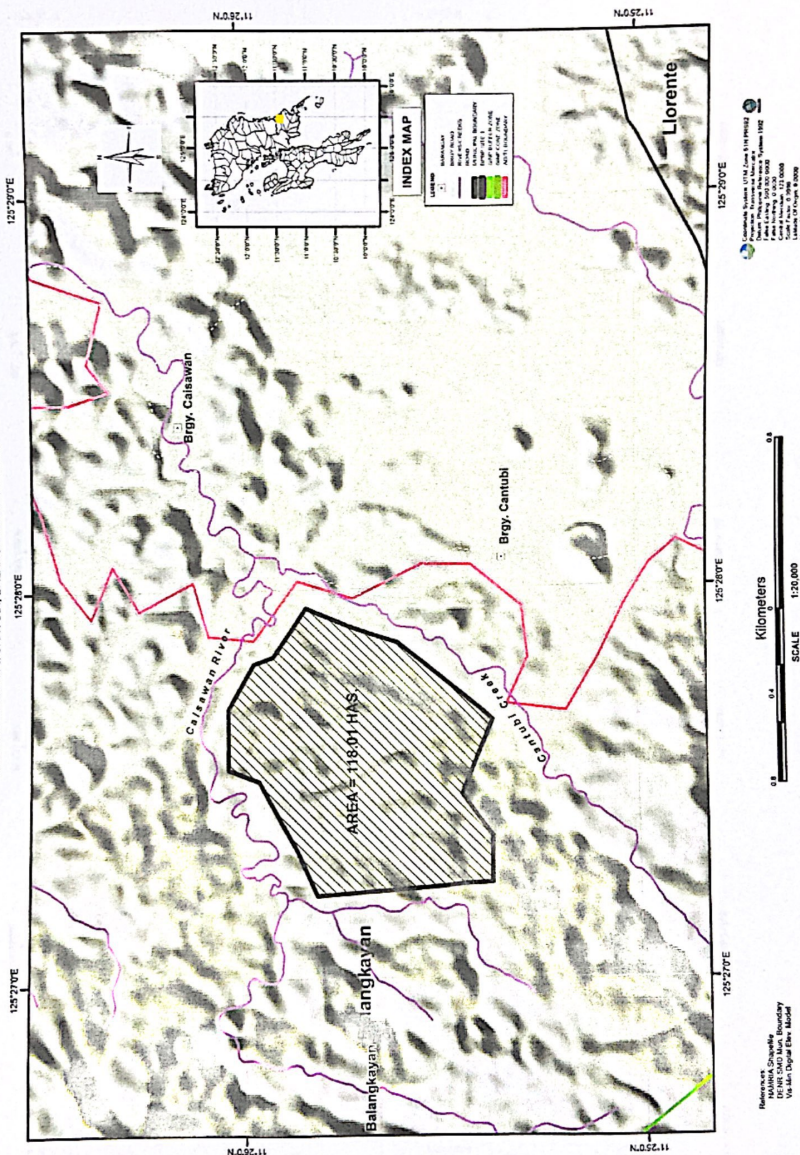
PROFILE AND OTHER RELEVANT INFORMATION/DATA OF THE IDENTIFIED SITES

I. BALANGKAYAN, EASTERN SAMAR SAMAR – 118 Hectares

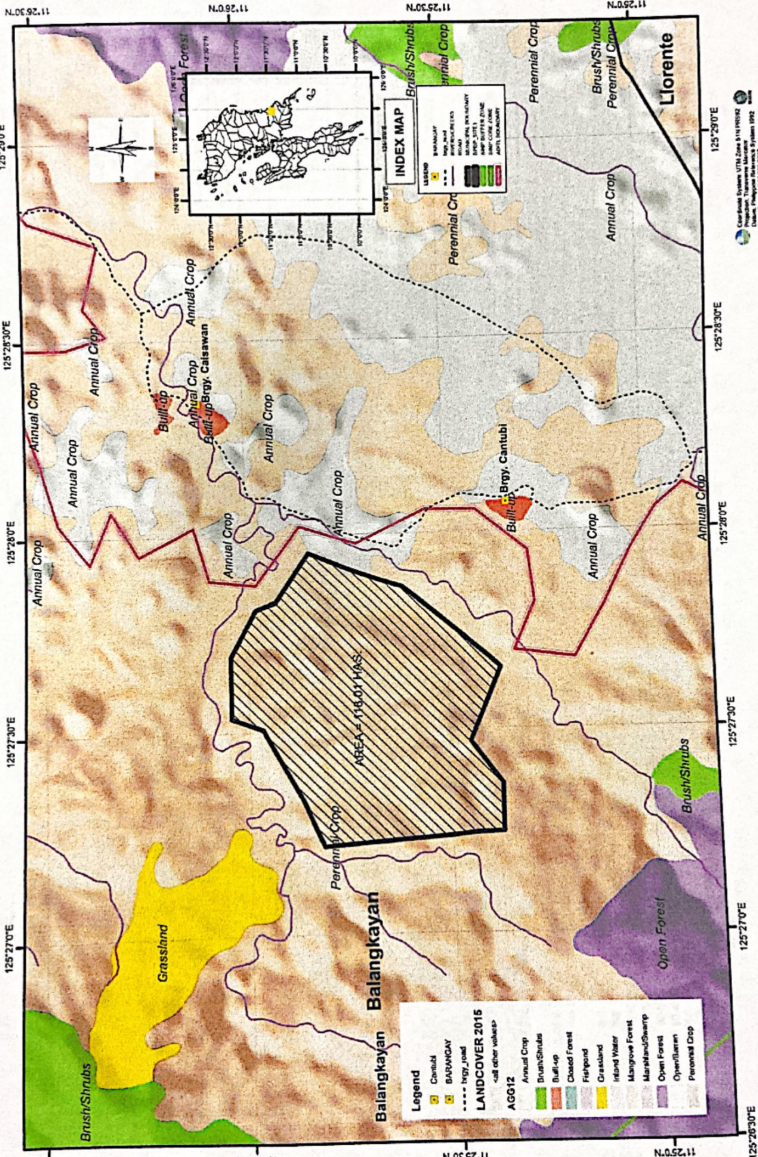
Site Description

- | | |
|--------------------------------|---|
| 1. Location: | Barangays Caisawan and Cantubi 11°25'22.21" - 11°26'2.41" North Latitude 125°27'12.49" - 125°27'57.21" East Longitude |
| 2. Land Cover | Perennial Crop |
| 3. Slope | 8 -18%; 30 - 50% |
| 4. Climate | Type II: No dry season; maximum rain period from December to February, minimum rainfall from March to May |
| 5. Long term sources of income | Agroforestry, sand and gravel quarrying, rice production |
| 6. Vulnerability | Low Flooding Susceptibility and Low to Moderate Landslide Susceptibility (Appendix "A") |

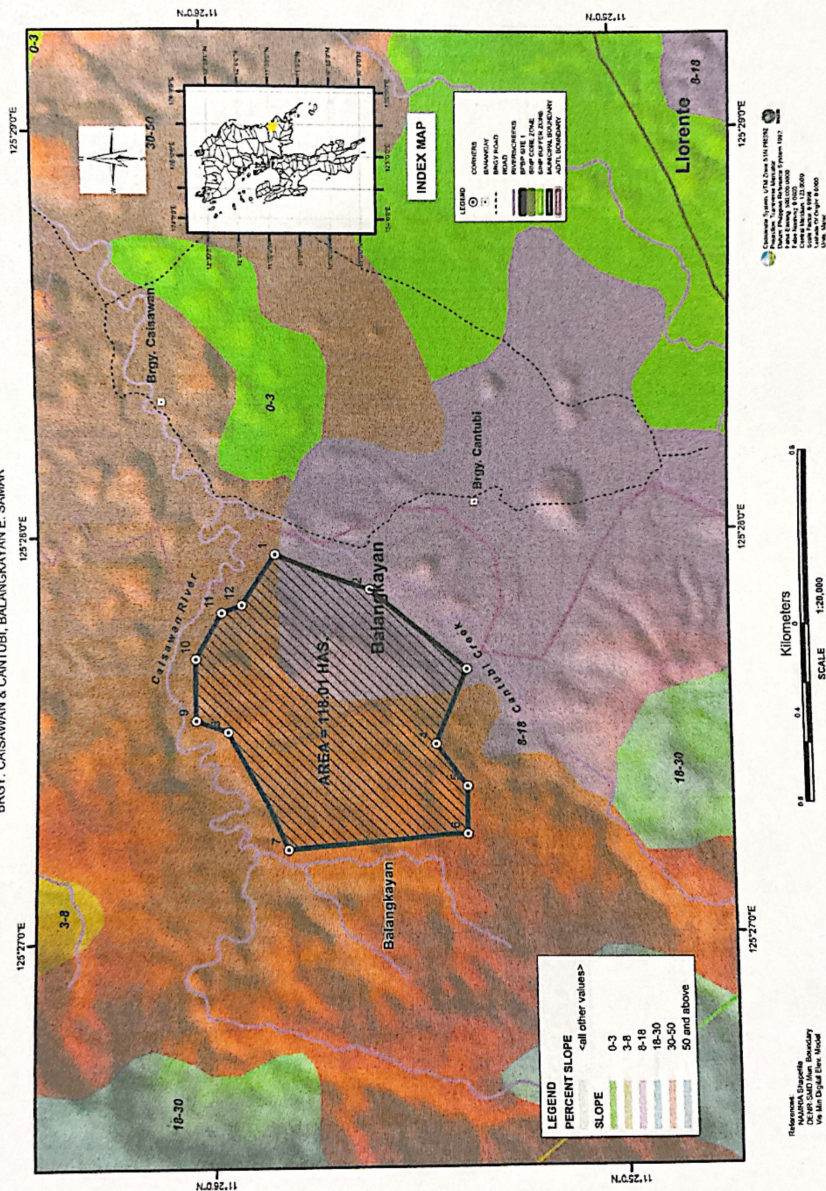
HYDROLOGY & ACCESSIBILITY MAP OF THE PROPOSED SITE FOR BALIK PROBINSYA, BAGONG PAG-ASA PROGRAM (SITE 1) BRGY. CAISAWAN & CANTUBI, BALANGKAYAN E. SAGAY



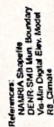
LANDCOVER MAP OF



BRGY. CAISAWAN & CANTUBI, BALANGKAYAN E. SAMAR



CLIMATE MAP OF



ELEVATION MAP OF

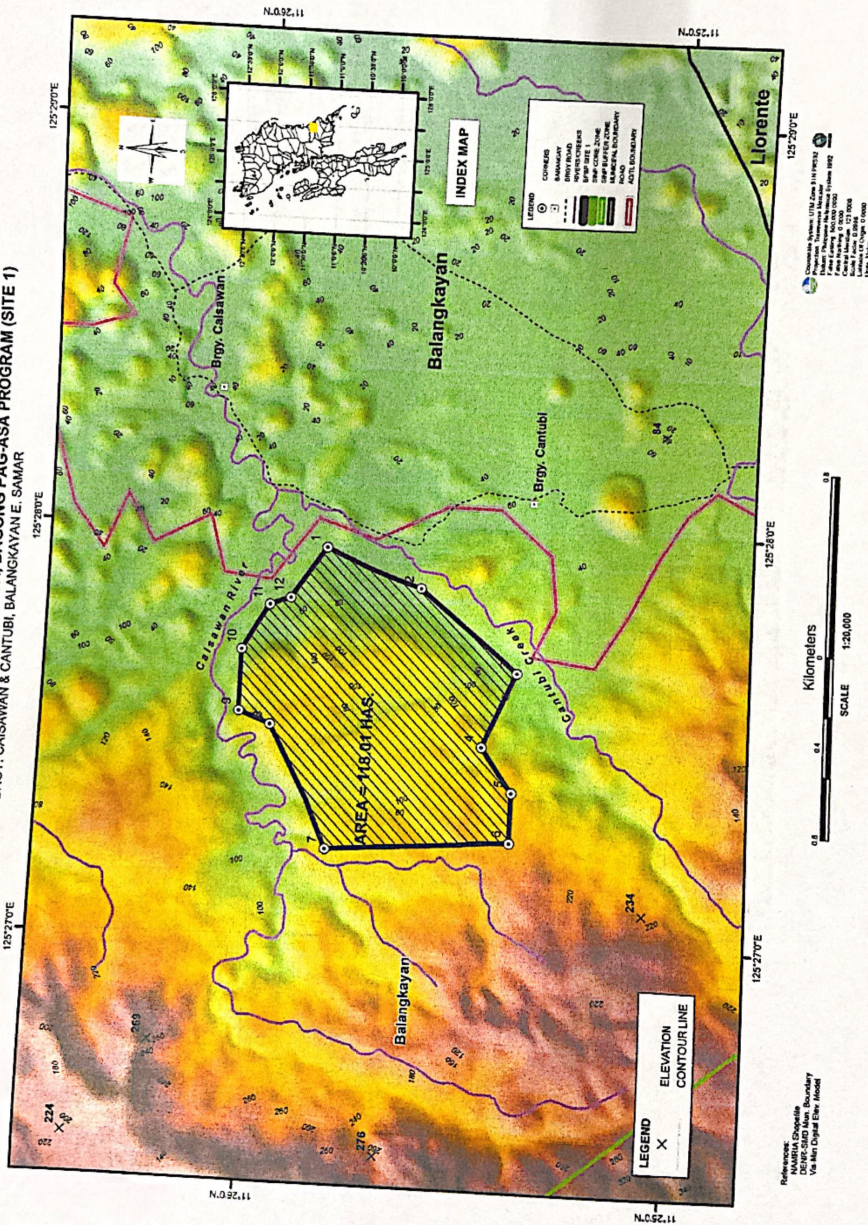




Figure 1. Areas suitable for agroforestry development and rice production

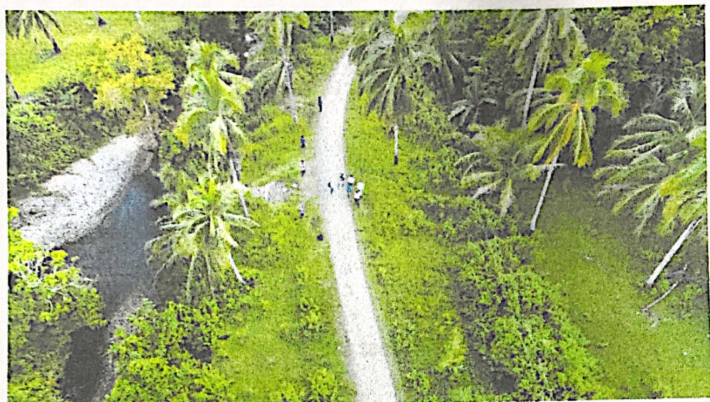


Figure 2. Potential sand and gravel quarrying site

PROJECT SCHEDULE:

| ACTIVITY | DURATION |
|--|------------|
| 1. Creation of Technical Working Group | April 2021 |
| 2. Public Consultation | July 2021 |
| 3. Site Verification | July 2021 |
| 4. Identification and validation of proposed livelihood projects | July 2021 |

EXISTING INFRASTRUCTURE DEVELOPMENT NEEDED FOR LONG-TERM DEVELOPMENT FOR PROPOSED BP2 SITE IN BALANGKAYAN, EASTERN SAMAR

- o Farm to Market Road (2 km)
- o Socialized Housing
- o Elementary School
- o Community Health Center
- o Day Care Center
- o Multi-purpose Hall
- o Children's Playground
- o Farmers' Center Building
- o Agricultural Equipment

BUDGETARY REQUIREMENTS: Php 148,390.00

- | | |
|---|-------------|
| o Public Consultation | - 10,000.00 |
| o Site Verification | - 64,900.00 |
| o Identification/Validation of proposed livelihood projects | - 60,000.00 |
| o PMS | - 13,490.00 |

PROJECT SCHEDULE :

| ACTIVITY | DURATION |
|--|------------|
| 1. Creation of Technical Working Group | April 2021 |
| 2. Public Consultation | July 2021 |
| 3. Site Verification | July 2021 |
| 4. Identification and validation of proposed livelihood projects | July 2021 |

Department of Environment and Natural Resources - Region 8
FY 2021 Physical and Financial Plan
(In Thousand Pesos)

Department: Environment and Natural Resources
Agency/ Bureau/Office: Region 8
Program/ Project/activity

| (1) | PARTICULAR | Unit Cost | PERFORMANCE INDICATOR | Provincial Municipality | FY 2020 | | 2021 Physical Performance Target | | | | | | Exp. Class | 2021 Financial Performance Target | | | | |
|-----|--|--|--|------------------------------------|----------------|-----------|----------------------------------|-----|------|------|-------|-------|------------|-----------------------------------|------|------|-------|----------|
| | | | | | Accomplishment | | Q1 | Q2 | Q3 | Q4 | TOTAL | Q1 | | Q2 | Q3 | Q4 | TOTAL | |
| | | | | | Physical | Financial | | | | | | | | | | | | Estimate |
| (1) | | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | |
| | BALIK PROBINSYA, BAGONG PAGASA (BP2) PROGRAM AND PROJECTS | | Region 8 | | | | | | | | | TOTAL | - | - | 892 | - | 892 | |
| | | | | | | | | | | | | MOOE | - | - | 892 | - | 892 | |
| | | | | Regional Office | | | | | | | | | | | | | | |
| | | | | Burkum, Leyte (256.52 has.) | | | | | | | | | | | | | | |
| | | | | Balanghayan, E. Samar (118 has.) | | | | | | | | | | | | | | |
| | | | | Liguanon, E. Samar (480.57 has.) | | | | | | | | | | | | | | |
| | | | | San Isidro, N. Samar (99.509 has.) | | | | | | | | | | | | | | |
| | 1. Creation of BP2 TWG | | | | | | | 1 | | | 1 | MOOE | | | | | - | |
| | 2. Public Consultation | 10,000/meeting | Public consultation conducted (no.) | | | | | | 4 | | 4 | MOOE | | | 40 | | 40 | |
| | 3. Survey Mapping and Planning | 550/ha | Site Verification conducted (no.) | | | | | | | 4 | 4 | MOOE | | | 531 | | 531 | |
| | 4. Identification and validation of proposed livelihood projects | livelihood project identified/ validated | Identified and validated proposed livelihood projects with reports submitted (no.) | | | | | | | 4 | 4 | MOOE | | | 240 | | 240 | |
| | 5. Project Management and Supervision | | | | | | | | | | | MOOE | | | 81 | | 81 | |

Prepared by:


LEIRA B. ROMERO
Planning Officer

Approved by:


MARISSA N. SOLITE
DIC Chief, CDD



GEOHAZARD ASSESSMENT REPORT ON THE PROPOSED BALIK PROBINSYA, BAGONG PAGASA PROGRAM LOCATED AT THE BARANGAYS OF CAISAWAN AND CANTUBI, MUNICIPALITY OF BALANGKAYAN PROVINCE OF EASTERN SAMAR

I. INTRODUCTION

A joint site inspection was conducted for ground validation of the proposed Balik Probinsya, Bagong Pagasa Program (BP²) located at the Barangays of Caisawan and Cantubi, Municipality of Balangkayan Province of Eastern Samar. The joint field assessment was conducted on May 19, 2020 by the undersigned and personnel from the Department of Environment and Natural Resources Regional Office VIII (DENR-ROVIII), Provincial Environment and Natural Resources Eastern Samar (PENRO-Eastern Samar) Community Environment and Natural Resources Borongan (CENRO-Borongan), and the Local Government Unit of Balangkayan, Eastern Samar.

II. BACKGROUND INFORMATION

Before the said joint site inspection, an initial meeting was held at the Department of Environment and Natural Resources Regional Office VIII (DENR-ROVIII) to identify the possible areas wherein the Balik Probinsya, Bagong Pagasa Program will be located.

An initial area was then plotted based from the Control Maps of (DENR-ROVIII) and Geohazard Maps of (MGB-ROVIII) wherein the said areas should have no claimants and are not susceptible to High Flood and Landslide.

Prior to the conduct of site inspection a briefer was also conducted at the Provincial Environment and Natural Resources Eastern Samar (PENRO-Eastern Samar) and with LGU Balangkayan.

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

III. FINDINGS AND OBSERVATIONS

1. The proposed site is located at Barangays Caisawan and Cantubi, Municipality of Balangkayan, Province of Eastern Samar.
2. The site is situated on a gently sloping to moderately steep sloping terrain. It is mainly covered by coconut trees and other perennial crops. It is bounded on the north by Caisawan Creek and by Cabay River on the east. The Barangay Centers of Caisawan and Cantubi are also located on the Eastern side of the Proposed area. Elevation ranges from approximately 40-140masl. Based on the Geologic Map of the area and outcrops on the vicinity, the site was then identified to be underlain by Early to Middle Miocene Limestone.
3. During the field assessment, the team coordinated with the Local Government Unit of Balangkayan, Eastern Samar through the Municipal Planning and Development Office (MPDO). The team also coordinated with the Barangay Local Government Unit (BLGU) of Caiswan. The team was accompanied by Mr. Henry Azura, staff from the MPDC Office of Balangkayan and a representative from (BLGU) Caisawan.
4. Based from interviews with the representatives of LGU Balangkayan, BLGU Caisawan and residents of Caisawan there are no recorded flooding on the proposed area. However, low to moderate flooding was experienced in the Barangay Center of Caisawan due to heavy rainfall that was caused by Tropical Storm Basyang in February 2018.

IV. CONCLUSION

Based on the field assessment and the updating of the geohazard map, the proposed site is classified as having **Low Flooding Susceptibility and Low to Moderate Landslide Susceptibility**.

V. RECOMMENDATIONS

To enhance the suitability of the property, the following recommendations must be considered:

1. Strict compliance with the recommended actions as stated in the Joint DENR-DILG-DND-DPWH-DOST Memorandum Circular No. 2014-01 which states that areas classified as having low susceptibility to flooding are zones wherein dwelling and development may be allowed provided that possible flood heights and structural integrity are considered in the design. Additionally, areas classified as having low susceptibility to landslides are zones wherein dwelling and development may be allowed provided that continuous monitoring of the slope (upslope and on site) is conducted. Furthermore areas classified as having moderate susceptibility to landslides are zones wherein dwelling and development may be allowed provided that appropriate engineering intervention measures are made with continuous monitoring.
2. The effects of the aforementioned geologic hazards and any other hazards that may be identified later, the topography and rock and soil types must be considered in the design or in any other modifications in the structures that will be constructed in the project site.
3. Appropriate drainage facilities should be constructed in the site interconnected to the main drainage system in the area.
4. The specifications in the National Building Code and Structural Code of the Philippines must be strictly followed and modified, if necessary, based on recent events such as Typhoon Yolanda and occurrences of earthquakes in the Visayas area.

Prepared by:


BRENT JAMES E. DAYAO
Senior Geologist

Noted By:


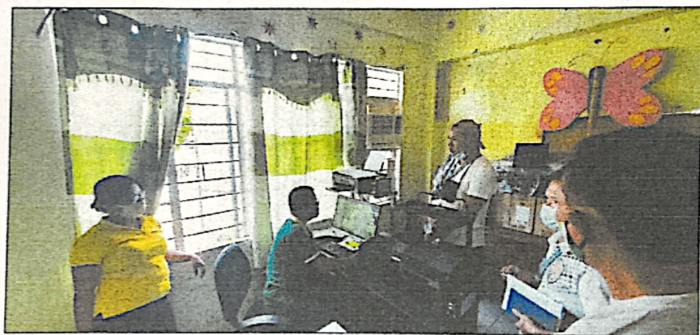

EDUARDO S. TAN
OIC - Geosciences Division

PHOTO DOCUMENTATION



Assessment Briefing with PENRO Eastern Samar



Coordination with LGU Balangkayan



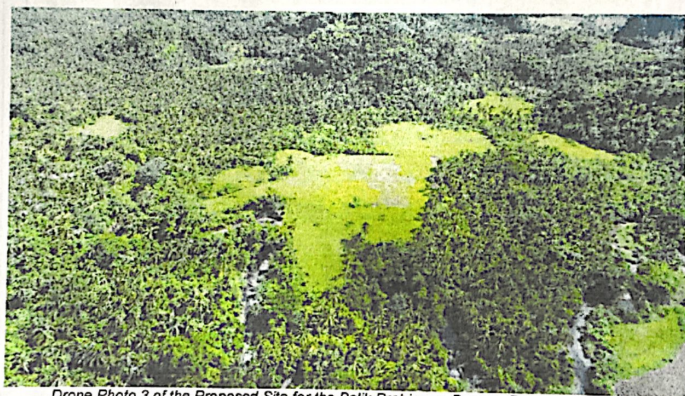
Assessment of the Proposed Site for the Balik Probinsya, Bagong Pagasa Program located at Brgys. Caisawan and Cantubi, Balangkayan, Eastern Samar together with DENR-ROVIII, PENRO-Eastern Samar, CENRO-Borongan, and Representatives of LGU Balangkayan and BLGU Caisawan



Drone Photo 1 of the Proposed Site for the Balik Probinsya, Bagong Pagasa Program



Drone Photo 2 of the Proposed Site for the Balik Probinsya, Bagong Pagasa Program



Drone Photo 3 of the Proposed Site for the Balik Probinsya, Bagong Pagasa Program

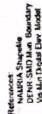
II. LLORENTE, EASTERN SAMAR – 480.67 Hectares

Site Description

1. Location: Barangays Maca-anga and Barobo
11°21'55.89" - 11°24'25.81" North Latitude
125°26'50.64" - 125°28'30.99" East Longitude
2. Land Cover Brush/shrub land, Perennial crop, Open forest
3. Slope 0 – 3%; 8 – 18%; 30 – 50%
4. Climate Type II: No dry season; maximum rain period from December to February, minimum rainfall from March to May
5. Long term sources of income Upland agriculture, ecotourism, livestock, and milk production
6. Vulnerability Moderate Flooding Susceptibility and Low to Moderate Landslide Susceptibility (Appendix "B")

THE PROPOSED SITE FOR BALIK PROBINSYA, BAGONG PAG-AYUS, CALABARZON, LAGUNA, PHILIPPINES

THE PROPOSED SITE FOR BALIK PROBINSYA, BAGONG PAG-AYUS, CALABARZON, LAGUNA, PHILIPPINES



SLOPE MAP OF



EVALUATION MAP OF

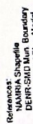




Figure 3. A vast tract for sand and gravel quarrying



Figure 4. Sites for agroforestry development and rice production

EXISTING INFRASTRUCTURE DEVELOPMENT NEEDED FOR LONG-TERM DEVELOPMENT FOR PROPOSED BP2 SITE IN LLORENTE, EASTERN SAMAR

- o Concreting of Barobo-Maca-anga farm to market road
- o Establishment of socialized housing in Barangay Barobo
- o Construction of irrigation facility in Barangay Maca-anga
- o Construction of evacuation center in Barangay Barobo
- o Upgrading of water system to Level 3 in Barangays Barobo and Maca-anga
- o Construction of sanitary toilets
- o Construction of river flood control in Barangay Barobo

BUDGETARY REQUIREMENTS: Php 367,806.00

- o Public Consultation - 10,000.00
- o Site Verification - 264,368.50
- o Identification/Validation of proposed livelihood projects - 60,000.00
- o PMS - 33,436.85

PROJECT SCHEDULE :

| ACTIVITY | DURATION |
|--|------------|
| 1. Creation of Technical Working Group | April 2021 |
| 2. Public Consultation | July 2021 |
| 3. Site Verification | July 2021 |
| 4. Identification and validation of proposed livelihood projects | July 2021 |

Department of Environment and Natural Resources - Region 8
FY 2021 Physical and Financial Plan
(In Thousand Pesos)

Department: Environment and Natural Resources
Agency/Bureau/Office: Region 8
Program/ Project/activity:

| Program/Project/activity | | Unit Cost | PERFORMANCE INDICATOR | Province/ Municipality | FY 2020 | | 2021 Physical Performance Target | | | | | Exp. Class | 2021 Financial Performance Target | | | | | TOTAL | | | |
|--------------------------|--|--|--|------------------------------------|---------|-----|----------------------------------|----------------|-----------|-------------|-------------|------------|-----------------------------------|-------------|-------|------|------|-------|------|------|------|
| (1) | PARTICULAR | | | | (3) | (4) | (5) | Accomplishment | | Q1 Estimate | Q2 Estimate | | Q3 Estimate | Q4 Estimate | TOTAL | (13) | Q1 | | Q2 | Q3 | Q4 |
| | | | | | | | | Physical | Financial | | | | | | | | (14) | | (15) | (16) | (17) |
| (1) | | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | | | |
| | BALIK PROBINSYA, BAGONG PAGASA (BP2) PROGRAM AND PROJECTS | | Region 8 | | | | | | | | | TOTAL | - | - | 892 | - | 892 | | | | |
| | | | | | | | | | | | | MOOE | - | - | 892 | - | 892 | | | | |
| | | | | Regional Office | | | | | | | | | | | | | | | | | |
| | | | | Surigao, Leyte (268.52 has.) | | | | | | | | | | | | | | | | | |
| | | | | Balingayay, E. Samar (714 has.) | | | | | | | | | | | | | | | | | |
| | | | | Lorinda, E. Samar (480.67 has.) | | | | | | | | | | | | | | | | | |
| | | | | San Isidro, N. Samar (93.509 has.) | | | | | | | | | | | | | | | | | |
| | 1. Creation of BP2 TWG | | | | | | | 1 | | | 1 | MOOE | | | | | - | | | | |
| | 2. Public Consultation | 10,000/meeting | Public consultation conducted (no.) | | | | | | | 4 | 4 | MOOE | | | 40 | | 40 | | | | |
| | 3. Survey Mapping and Planning | 550ha | Site Verification conducted (no.) | | | | | | | 4 | 4 | MOOE | | | 531 | | 531 | | | | |
| | 4. Identification and validation of proposed livelihood projects | livelihood project identified/ validated | Identified and validated proposed livelihood projects with reports submitted (no.) | | | | | | | 4 | 4 | MOOE | | | 240 | | 240 | | | | |
| | 5. Project Management and Supervision | | | | | | | | | | | MOOE | | | 81 | | 81 | | | | |
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Prepared by:


LEIRAJ ROMERO
Planning Officer

Approved by:


MARISSA N. SOLITE
OIC Chief, CDO

FOR THE CONDUCT OF SITE INSPECTION A MEETING WAS ALSO CONDUCTED AT THE DISTRICT



GEOHAZARD ASSESSMENT REPORT ON THE PROPOSED BALIK PROBINSYA, BAGONG PAGASA PROGRAM LOCATED AT BARANGAYS MACA-ANGA AND BAROBO, MUNICIPALITY OF LLORENTE, PROVINCE OF EASTERN SAMAR

I. INTRODUCTION

A joint site inspection was conducted for ground validation of the proposed Balik Probinsya, Bagong Pagasa Program (BP²) located at Barangays of Maca-Anga and Barobo, Municipality of Llorente, Province of Eastern Samar. The joint field assessment was conducted on May 20, 2020 by the undersigned and personnel from the Department of Environment and Natural Resources Regional Office VIII (DENR-ROVIII), Provincial Environment and Natural Resources Eastern Samar (PENRO-Eastern Samar) Community Environment and Natural Resources Borongan (CENRO-Borongan), and the Local Government Unit of Llorente, Eastern Samar.

II. BACKGROUND INFORMATION

Before the said joint site inspection, an initial meeting was held at the Department of Environment and Natural Resources Regional Office VIII (DENR-ROVIII) to identify the possible areas wherein the Balik Probinsya, Bagong Pagasa Program will be located.

An initial area was then plotted based from the Control Maps of (DENR-ROVIII) and Geohazard Maps of (MGB-ROVIII) wherein the said areas should have no claimants and are not susceptible to High Flooding and Landslide.

Prior to the conduct of site inspection a briefing was also conducted at the Provincial Environment and Natural Resources Eastern Samar (PENRO-Eastern Samar) and with LGU Llorente.

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

III. FINDINGS AND OBSERVATIONS

1. The proposed site is located at Barangay Maca-anga, Municipality of Llorente, Province of Eastern Samar.
2. The site is situated on a gently sloping to moderately steep sloping terrain. It is mainly covered by brush shrubs and perennial crops. The Barangay Center of Maca-Anga is located on the Eastern side of the Proposed Area. Elevation ranges from approximately 40-140 masl. Based on the Geologic Map of the area, the site is predominantly underlain by Early to Middle Miocene sandstone, conglomerate, shale, coalbeds, intercalated with lava flow.
3. During the field assessment, the team coordinated with the Local Government Unit of Llorente, Eastern Samar through the Municipal Planning and Development Office (MPDO). The team also coordinated with the Barangay Local Government Unit (BLGU) of Maca-Anga. The team was accompanied by staff from the MPDO Office of Llorente and a representative from (BLGU) Maca-anga.
4. Based from interviews with the representatives of LGU Llorente, BLGU Maca-anga and residents of the said Barangay that there were no recorded flooding and landslides on the proposed area.

IV. CONCLUSION

Based on the field assessment and the updating of the geohazard map, the proposed site is classified as having **Moderate Flooding Susceptibility and Low to Moderate Landslide Susceptibility**.

V. RECOMMENDATIONS

To enhance the suitability of the property, the following recommendations must be considered:

1. Strict compliance with the recommended actions as stated in the Joint DENR-DILG-DND-DPWH-DOST Memorandum Circular No. 2014-01 which states that areas classified as having moderate susceptibility to flooding are zones wherein dwelling and development may be allowed provided that possible flood heights and structural integrity are considered in the design. Additionally, areas classified as having low susceptibility to landslides are zones wherein dwelling and development may be allowed provided that continuous monitoring of the slope (upslope and on site) is conducted. Furthermore areas classified as having moderate susceptibility to landslides are zones wherein dwelling and development may be allowed provided that appropriate engineering intervention measures are made with continuous monitoring.
2. The effects of the aforementioned geologic hazards and any other hazards that may be identified later, the topography and rock and soil types must be considered in the design or in any other modifications in the structures that will be constructed in the project site.
3. Appropriate drainage facilities should be constructed in the site interconnected to the main drainage system in the area.
4. The specifications in the National Building Code and Structural Code of the Philippines must be strictly followed and modified, if necessary, based on recent events such as Typhoon Yolanda and occurrences of earthquakes in the Visayas area.

Prepared by:


BRENT JAMES E. DAYAO
Senior Geologist

Noted By:

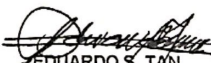

EDUARDO S. TAN
OIC - Geosciences Division

PHOTO DOCUMENTATION



Drone Photo 1 of the Proposed Site for the Balik Probinsya, Bagong Pagasa Program at Barangay Maca-anga, Llorente, Eastern Samar



Drone Photo 2 of the Proposed Site for the Balik Probinsya, Bagong Pagasa Program at Barangay Maca-anga, Llorente, Eastern Samar

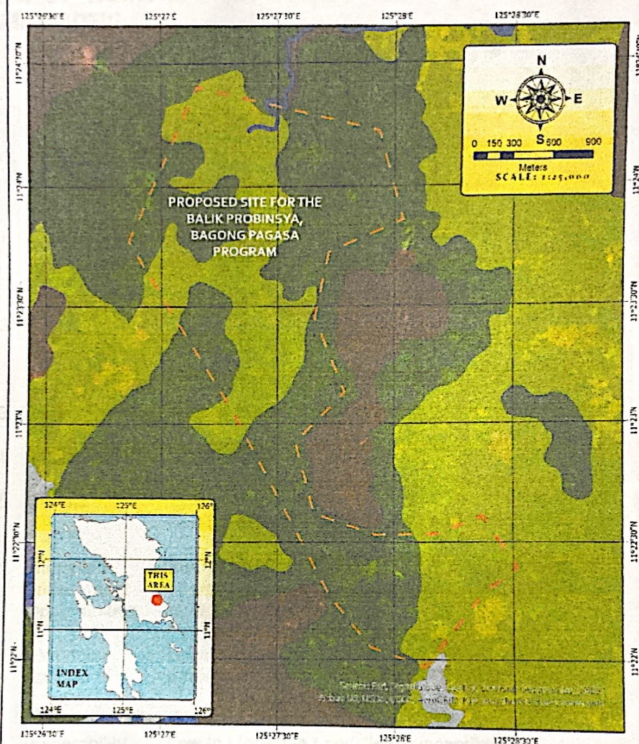


Drone Photo 3 of the Proposed Site for the Balik Probinsya, Bagong Pagasa Program at Barangay Maca-anga, Llorente, Eastern Samar



Drone Photo 4 of the Proposed Site for the Balik Probinsya, Bagong Pagasa Program at Barangay Maca-anga, Llorente, Eastern Samar

DETAILED RAIN-INDUCED LANDSLIDE AND FLOOD HAZARD MAP OF THE PROPOSED SITE FOR
THE BALIK PROBINSYA BAGONG PAGASA PROGRAM LOCATED AT BARANGAY MACA-ANGA,
MUNICIPALITY OF ILOGRENTE, PROVINCE OF EASTERN SAMAR



| LEGEND | | SYMBOLS | |
|--------------------------------------|---------------------------------------|--|--------------------------------------|
| 1. Proposed site | 2. Road | 3. River | 4. Contour line |
| 5. Water body | 6. Forest cover | 7. High water level | 8. Low water level |
| 9. Slope | 10. Elevation | 11. Rainfall | 12. Wind direction |
| 13. Soil type | 14. Land use | 15. Vegetation | 16. Population density |
| 17. Infrastructure | 18. Administrative boundary | 19. Political boundary | 20. Natural boundary |
| 21. Cultural boundary | 22. Historical boundary | 23. Religious boundary | 24. Ethnic boundary |
| 25. Language boundary | 26. Religion boundary | 27. Ethnicity boundary | 28. Nationality boundary |
| 29. Citizenship boundary | 30. Immigration boundary | 31. Emigration boundary | 32. Migration boundary |
| 33. Naturalization boundary | 34. Denaturalization boundary | 35. Citizenship revocation boundary | 36. Citizenship restoration boundary |
| 37. Citizenship acquisition boundary | 38. Citizenship loss boundary | 39. Citizenship reinstatement boundary | 40. Citizenship termination boundary |
| 41. Citizenship suspension boundary | 42. Citizenship expiration boundary | 43. Citizenship renewal boundary | 44. Citizenship application boundary |
| 45. Citizenship processing boundary | 46. Citizenship approval boundary | 47. Citizenship denial boundary | 48. Citizenship rejection boundary |
| 49. Citizenship withdrawal boundary | 50. Citizenship cancellation boundary | 51. Citizenship annulment boundary | 52. Citizenship voiding boundary |
| 53. Citizenship termination boundary | 54. Citizenship expiration boundary | 55. Citizenship renewal boundary | 56. Citizenship application boundary |
| 57. Citizenship processing boundary | 58. Citizenship approval boundary | 59. Citizenship denial boundary | 60. Citizenship rejection boundary |
| 61. Citizenship withdrawal boundary | 62. Citizenship cancellation boundary | 63. Citizenship annulment boundary | 64. Citizenship voiding boundary |
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| 73. Citizenship withdrawal boundary | 74. Citizenship cancellation boundary | 75. Citizenship annulment boundary | 76. Citizenship voiding boundary |
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| 81. Citizenship processing boundary | 82. Citizenship approval boundary | 83. Citizenship denial boundary | 84. Citizenship rejection boundary |
| 85. Citizenship withdrawal boundary | 86. Citizenship cancellation boundary | 87. Citizenship annulment boundary | 88. Citizenship voiding boundary |
| 89. Citizenship termination boundary | 90. Citizenship expiration boundary | 91. Citizenship renewal boundary | 92. Citizenship application boundary |
| 93. Citizenship processing boundary | 94. Citizenship approval boundary | 95. Citizenship denial boundary | 96. Citizenship rejection boundary |
| 97. Citizenship withdrawal boundary | 98. Citizenship cancellation boundary | 99. Citizenship annulment boundary | 100. Citizenship voiding boundary |

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
PLANNING AND MANAGEMENT BUREAU REGIONAL OFFICE VII
Cebu City, Philippines

UPDATED PROFILE AND OTHER RELEVANT INFORMATION/ DATA OF BURAUEN, LEYTE and SAN ISIDRO, NORTHERN SAMAR SITES

III. BURAUEN, LEYTE – 266.52 Hectares

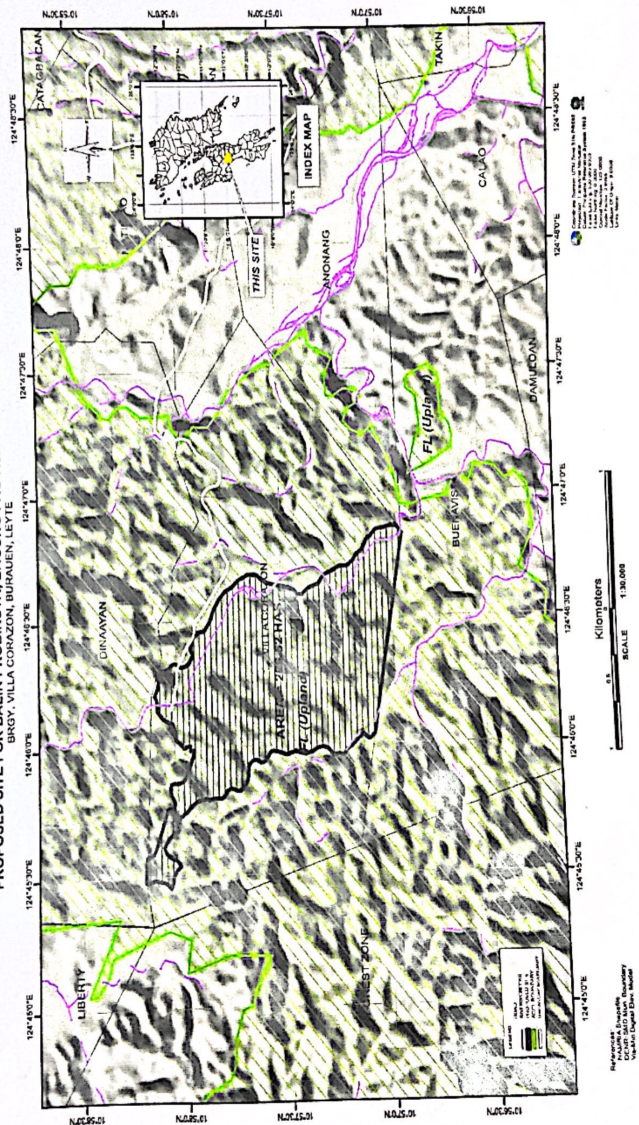
Site Description

1. Location: Barangay Villa Corazon, Burauen, Leyte
10°58'3.5" North Latitude
124°46'9.8" East Longitude
2. Forest Cover 44.5% Open Forest, 36.7% Closed Canopy Forest,
17% Brush/Shrub, 1.6 % Perennial, and 0.1% Annual
Crops
3. Slope 18-30% Slope: Rolling to Hilly
4. Elevation 303 meters above sea level
5. Climate Type IV - Characterized by a more or less even
distribution of rainfall throughout the year
6. Immediate Employment Opportunities Burauen to Ormoc Road Construction, Geothermal
energy worker, public utility driver, copra and abaca
production farm worker
7. Long term sources of income Upland agriculture, rattan handicraft, cut flower
production, livestock trading, tilapia production
8. Vulnerability Low to Moderate Landslide Susceptibility
Not Susceptible to Flooding (Appendix "C")

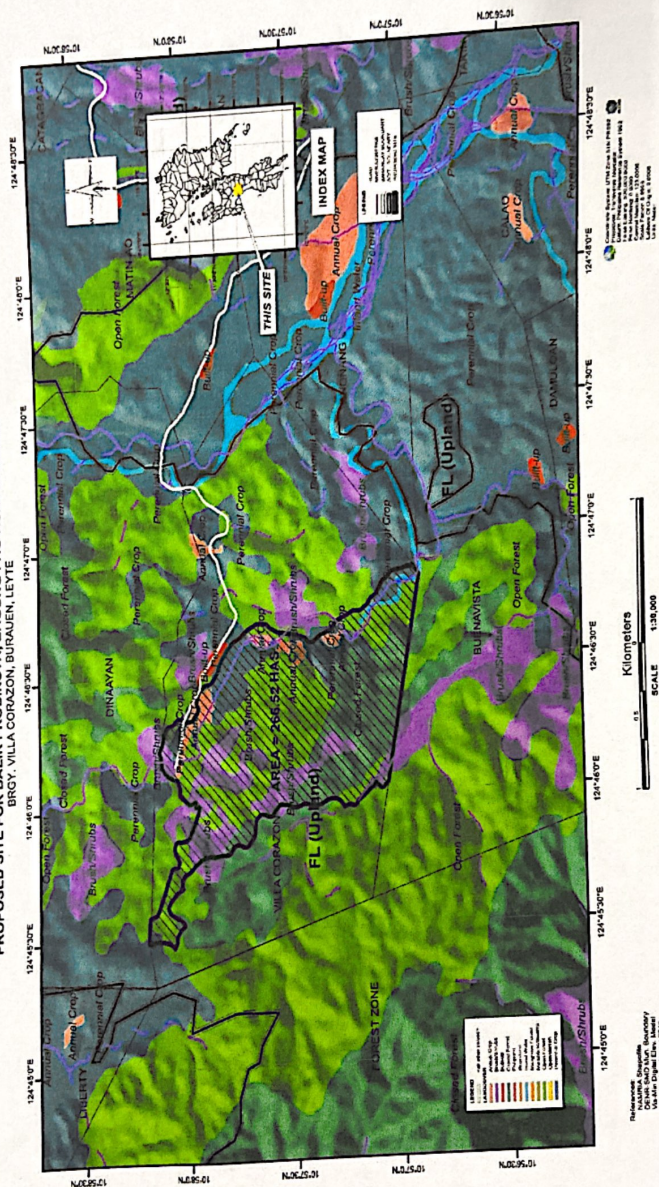
Proposed Landuse

| Current Landuse | Area Hectares | Proposal |
|-----------------|------------------|--|
| Open Forest | 118.54 | Agroforestry |
| Brush/Shrub | 45.62 | Agroforestry |
| Closed Forest | 97.91 | Rattan plantation |
| Perennial Crop | 4.28 | Cacao, Jackfruit, other shade-loving fruit trees |
| Annual Crop | 0.17 | Cut flower production |
| | 266.52 | |

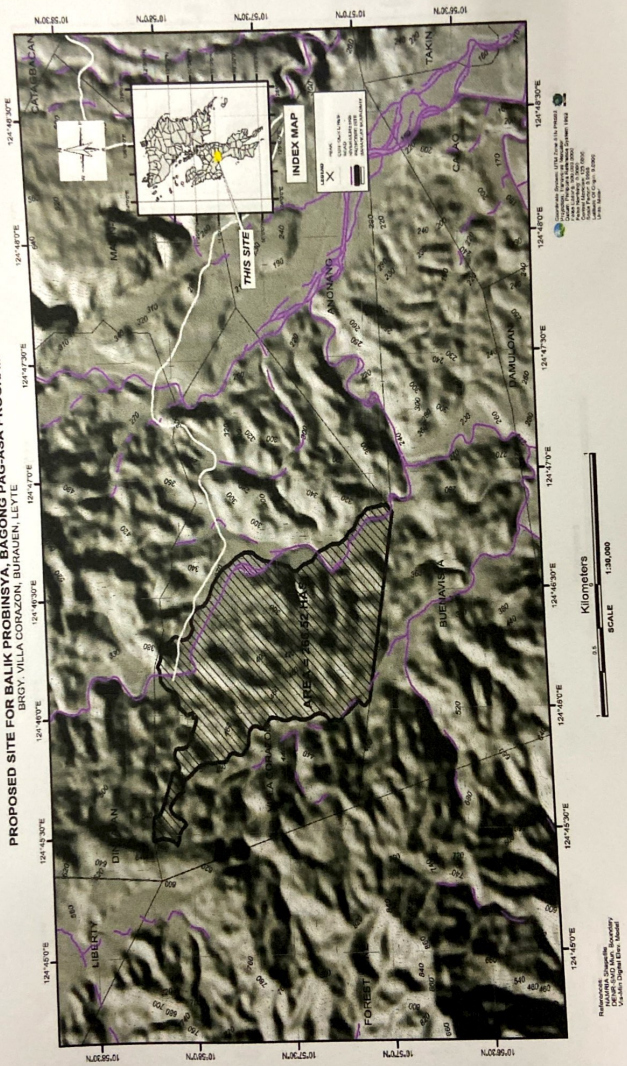
HYDROLOGY & ACCESSIBILITY MAP OF PROPOSED SITE FOR BALIK PROBINSYA, BAGONG PAG-ASA PROGRAM BRGY. VILLA CORAZON, BUHAUEN, LEYTE



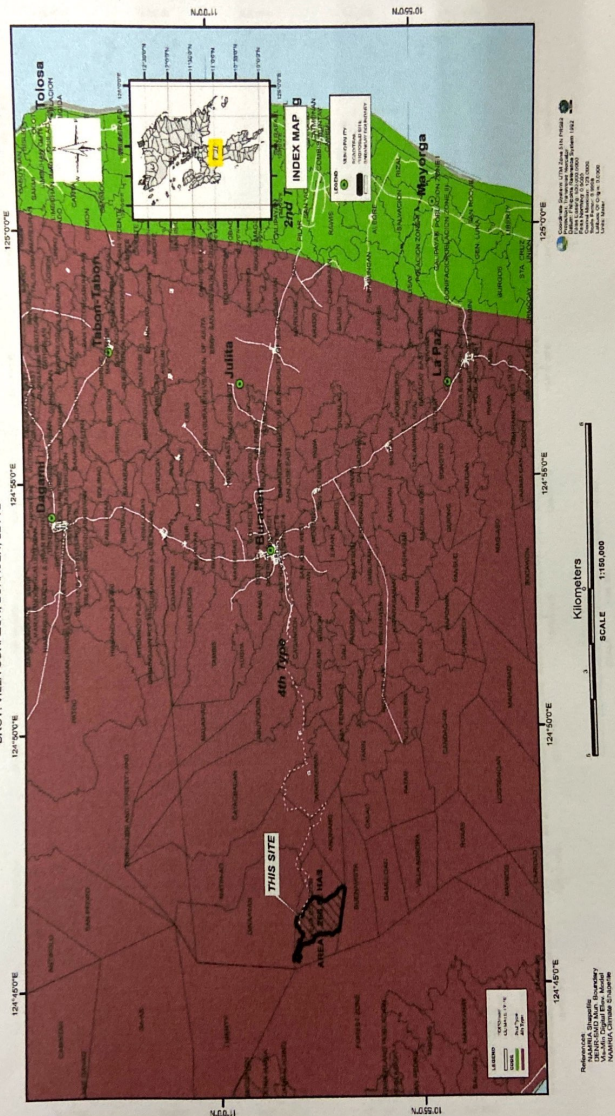
LANDCOVER MAP OF
PROPOSED SITE FOR BALIK PROBINSYA, BAGONG PAG-ASA PROGRAM
BRYO, VILLA CORAZON, BURAIJEN, LEYTE



**ELEVATION MAP OF
PROPOSED SITE FOR BALIK PROBIOTIC FISH FARM
BIRAY, VILLA COMMON, BUKAHEN, LEYTE**



CLIMATE MAP OF
PROPOSED SITE FOR BALK PROGENSYA, BAGOONG PAG-ASA PROGRAM
BREV, VILLA CORAZON, BUKAUEN, LEYTE



**SOIL MAP OF
PROPOSED SITE FOR BALIK PROBINSYA, BAGONG PAG-ASA PROGRAM
BROY, VILLA CORAZON, BURAUEN, LEYTE**

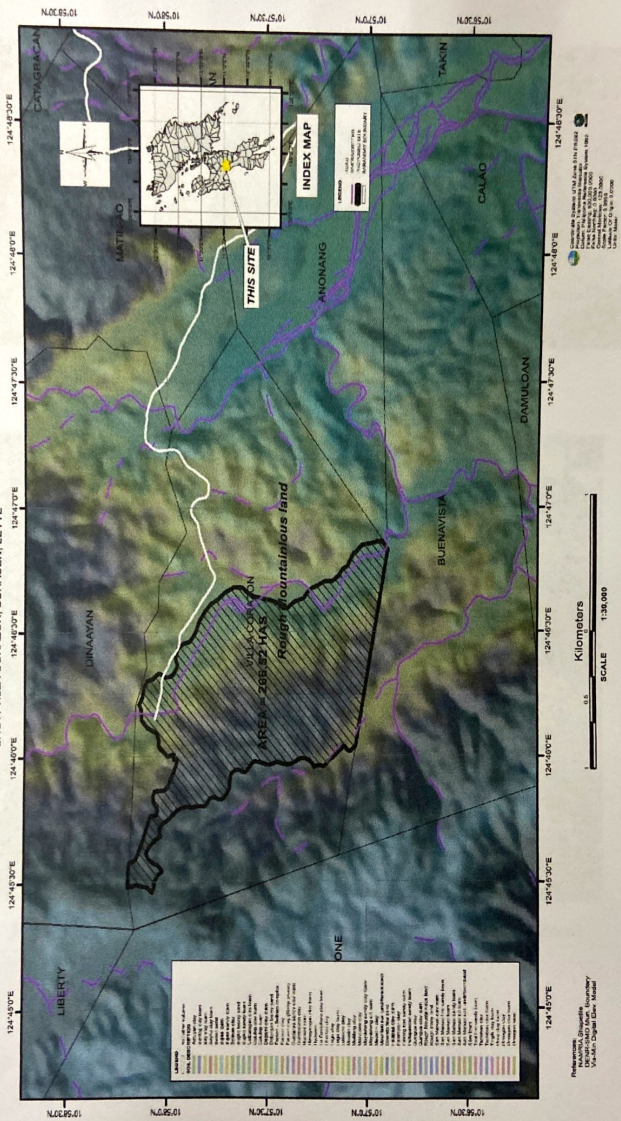




Figure 1. Areas suitable for agroforestry development



Figure 2. The area reserved for BFAR project on Giant Gourami (*Osphronemus goramy*) Production

**EXISTING INFRASTRUCTURE DEVELOPMENT NEEDED FOR LONG-TERM
DEVELOPMENT FOR PROPOSED BP2 SITE IN BURAUEN, LEYTE**

- o Roads and Bridges
- o Water System
- o Barangay Facilities (Multi-purpose building, Health Center, Day Care Center)
- o School Facilities
- o Covered Court/Evacuation Center
- o Agricultural Production Facilities

BUDGETARY REQUIREMENTS: Php 238,245.00

- | | |
|---|--------------|
| o Public Consultation | - 10,000.00 |
| o Site Verification | - 146,586.00 |
| o Identification/Validation of proposed livelihood projects | - 60,000.00 |
| o PMS | - 21,658.60 |

PROJECT SCHEDULE :

| ACTIVITY | DURATION |
|--|----------------|
| 1. Creation of Technical Working Group | April 2021 |
| 2. Public Consultation | September 2021 |
| 3. Site Verification | September 2021 |
| 4. Identification and validation of proposed livelihood projects | September 2021 |

Department of Environment and Natural Resources - Region 8
FY 2021 Physical and Financial Plan
(In Thousand Pesos)

Department: Environment and Natural Resources
Agency/ Bureau/Office: Region 8
Program/ Project/activity

| Region 8 | | | | | | | | | | | | | | | | | |
|---|--|--|--|------------------------------------|------------------------|-----------|----------------------------------|-------------|-------------|-------------|-------|------------|-----------------------------------|-------------|-------------|-------------|-------|
| Program/Project/Activity | | | | | | | | | | | | | | | | | |
| PARTICULAR | | Unit Cost | PERFORMANCE INDICATOR | Provincial Municipality | FY 2021 Accomplishment | | 2021 Physical Performance Target | | | | | Exp. Class | 2021 Financial Performance Target | | | | TOTAL |
| | | | | | Physical | Financial | Q1 Estimate | Q2 Estimate | Q3 Estimate | Q4 Estimate | TOTAL | | Q1 Estimate | Q2 Estimate | Q3 Estimate | Q4 Estimate | |
| (1) | | (2) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) |
| BALIK PROBINSYA, BAGONG PAGASA (BP2) PROGRAM AND PROJECTS | | | | Region 8 | | | | | | | | TOTAL MOOE | - | - | 892 | - | 892 |
| | | | | Regional Office | | | | | | | | | | | | | |
| | | | | Burauen, Leyte (266.52 has.) | | | | | | | | | | | | | |
| | | | | Salangrayan, E. Samar (118 has.) | | | | | | | | | | | | | |
| | | | | Lipnito, E. Samar (485.67 has.) | | | | | | | | | | | | | |
| | | | | San Isidro, N. Samar (99.509 has.) | | | | | | | | | | | | | |
| | 1. Creation of BP2 TWG | | | | | | | 1 | | | 1 | MOOE | | | | | - |
| | 2. Public Consultation | 10,000/meeting | Public consultation conducted (no.) | | | | | | 4 | | 4 | MOOE | | | 40 | | 40 |
| | 3. Survey Mapping and Planning | 550/ha | Site Verification conducted (no.) | | | | | | 4 | | 4 | MOOE | | | 531 | | 531 |
| | 4. Identification and validation of proposed livelihood projects | livelihood project identified/ validated | Identified and validated proposed livelihood projects with reports submitted (no.) | | | | | | 4 | | 4 | MOOE | | | 240 | | 240 |
| | 5. Project Management and Supervision | | | | | | | | | | | MOOE | | | 81 | | 81 |

Approved by:


MARISSA N. SOLITE
CIC Chf., CDD

Prepared by:


LEIRA B. ROMERO
Planning Officer



Republic of the Philippines
Department of Environment and Natural Resources
MINES AND GEOSCIENCES BUREAU
Regional Office No. VIII
MacArthur Park, Candehug, Palo, Leyte 6501
Tel. Area: (+63 53) 223-8000; 323-8010; 323-8011; Telefax No: (+63 53) 832-4214; Email: mgb@mgb.gov.ph

RECEIVED APPENDIX "C"
NAME: *fnr*
DATE: *July 8 2020*
TIME: *3:00 pm*
MINES AND GEOSCIENCES BUREAU
CANDEHUG, PALO, LEYTE

MGB Ref. 2020-06-194

MEMORANDUM

DATE: June 24, 2020

FOR: **TIRSO P. PARIAN, JR., CESO IV**
OIC-Regional Executive Director
Department of Environment and Natural Resources
Regional Office No. VIII, Tacloban City

FROM: **REGIONAL DIRECTOR**
Mines and Geosciences Bureau Regional Office No. VIII
MacArthur Park, Candehug, Palo, Leyte

SUBJECT: **GEOHAZARD ASSESSMENT REPORT ON THE BALIK PROBINSYA, BAGONG PAGASA PROGRAM PROPOSED SITE LOCATED AT BARANGAY VILLA CORAZON, MUNICIPALITY OF BURAEN, PROVINCE OF LEYTE**

This is in reference to your Memorandum dated May 14, 2020, with regards to MGB's participation in the conduct of reconnaissance survey of the proposed areas for the *Balik Probinsya, Bagong Pagasa* Program.

Based on the Geohazard Map of Eastern Visayas (Region VIII) and on the field assessment conducted, the proposed site in Brgy. Villa Corazon, Buraen, Leyte is classified as having Low to Moderate Landslide Susceptibility Rating. As per Joint DENR-DILG-DND-DPWH-DOST Memorandum Circular No. 2014-01, dwelling and development may be allowed in areas classified as having low landslide susceptibility, provided that continuous monitoring of the slope (upslope and on site) is conducted. As for areas classified as having moderate landslide susceptibility, dwelling and development may be allowed provided that appropriate engineering intervention measures are made with continuous monitoring. The project site is not susceptible to flooding.

Attached is the Geohazard Assessment Report.

Thank you very much.

LEO VAN V. JUGUAN, CESO V



Department of Environment and Natural Resources
Mines and Geosciences Bureau
Office of the Regional Director

062520-R08-24567

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

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MGB37



Republic of the Philippines
Department of Environment and Natural Resources
MINES AND GEOSCIENCES BUREAU
Regional Office No. VIII

MacArthur Park, Candahug, Palo, Leyte 6501

Tel. Nos. (+63 53) 323-8009, 323-8010, 323-8011; Telefax No. (+63 53) 632-4214; E-mail: region8@mmb.gov.ph; Website: www.mmb.gov.ph

MGB Ref. 2020-

MEMORANDUM

DATE: June 5, 2020

FOR: **LEO VAN V. JUGUAN, CESO V**
Regional Director
Mines and Geosciences Bureau Regional Office No. VIII
MacArthur Park, Candahug, Palo, Leyte

THRU: **EDUARDO S. TAN**
OIC, Geosciences Division
Mines and Geosciences Bureau Regional Office No. VIII
MacArthur Park, Candahug, Palo, Leyte

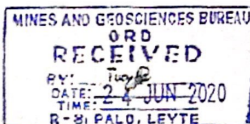
FROM: **THE UNDERSIGNED**

SUBJECT: **GEOHAZARD ASSESSMENT REPORT ON THE BALIK
PROBINSYA, BAGONG PAGASA PROGRAM PROPOSED SITE
LOCATED AT BARANGAY VILLA CORAZON, MUNICIPALITY OF
BURAEN, PROVINCE OF LEYTE**

Please see attached report entitled "Geohazard Assessment Report on the Balik Probinsya, Bagong Pagasa Program Proposed Site Located at Barangay Villa Corazon, Municipality of Buraen, Province of Leyte." The field assessment was conducted on May 28, 2020 together with technical personnel from the Department of Environment and Natural Resources Regional Office VIII (DENR-ROVIII), Provincial Environment and Natural Resources - Leyte (PENRO-Leyte) and Community Environment and Natural Resources - Palo (CENRO-Palo).

For his information.

RODRIGO JAY B. MIRALLES
Senior Geologist



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

GEOHAZARD ASSESSMENT REPORT ON THE *Balik Probinsya, Bagong Pagasa* PROGRAM PROPOSED SITE LOCATED AT BARANGAY VILLA CORAZON, MUNICIPALITY OF BURAUEN, PROVINCE OF LEYTE

I. INTRODUCTION

A joint site inspection was conducted for the ground validation of the proposed *Balik Probinsya, Bagong Pagasa* (BP²) Program proposed site located at Barangay Villa Corazon, Municipality of Burauen, Province of Leyte. The joint assessment was conducted on May 28, 2020 by the undersigned, together with technical personnel from the Department of Environment and Natural Resources Regional Office VIII (DENR-ROVIII), Provincial Environment and Natural Resources – Leyte (PENRO-Leyte) and Community Environment and Natural Resources – Palo (CENRO-Palo).

II. BACKGROUND INFORMATION

On May 6, 2020, Executive Order No. 114 entitled "Institutionalizing the *Balik Probinsya, Bagong Pagasa* (BP²) Program as a Pillar of Balanced Regional Development, Creating a Council Therefor, and for Other Purposes" was issued by the President, through Executive Secretary Salvador C. Medialdea. With the policy of balanced regional development and equitable distribution of wealth, resources and opportunities, the order was issued to reverse migration to the National Capital Region and other congested metropolises through the promotion of countryside development and inclusive growth. As part of the *Balik Probinsya, Bagong Pagasa* Council, the Department of Environment and Natural Resources (DENR) was tasked to identify proposed sites suitable for the program. The Mines and Geosciences Bureau, for its part, was tasked to ascertain that the site is habitable and not vulnerable to geohazards such as flood and landslide.

Prior the conduct of the joint site assessment, the proposed site has already been identified by the Provincial Environment and Natural Resources – Leyte (PENRO-Leyte). On the day of the assessment, the team proceeded to the Municipal Hall of the Local

Government Unit of Burauen, Leyte to coordinate with the Office of the Municipal Mayor, as well as to gather pertinent data from concerned departments in the LGU.

III. FINDINGS AND OBSERVATIONS

1. The proposed site is located at Barangay Villa Corazon, Municipality of Burauen, Province of Leyte, with a land area of 266.53 hectares.
2. The Municipality of Burauen, Province of Leyte can be reached from Tacloban City by heading southwest, taking the Pan Philippine Highway, then through Tanauan – Dagami Rd and Jaro – Dagami – Burauen – Lapaz Rd, all the way to its town proper. It is 42.8 kilometers from Tacloban City, and can be reached in around an hour through the use of any two-wheel drive vehicle. On the other hand, Brgy. Villa Corazon can be accessed through its farm-to-market road 14.2 kilometers west of the town proper, which takes roughly around 23 minutes through the use of any two-wheel drive vehicle.
3. The site is situated on a moderately sloping terrain, drained by a tributary of the Daguitan River. It is mainly covered by brush/shrubs and perennial crops. Highest elevation in the area is 1,128 meters above mean sea level, northeast from the site. Based on the Geologic Map of the area, the site is underlain by Early to Middle Miocene volcanic rock of andesite, basalt, dacite, lava flow, agglomerate, tuff and locally intercalated sedimentary rocks. Exposure of andesite and volcanic rocks were noted on the northern portion of the site, where there is an on-going road construction.
4. During the field assessment, the team also coordinated with the Barangay Local Government Unit (BLGU) of Villa Corazon, Burauen. Based on the interview with the representatives of the barangay and the residents, there was no recorded flooding within the proposed area. As much as the tributary proximate to the site has periodic inundation mostly due to typhoon, its flood water do not reach the site due to its elevation.
5. There was no recorded history of landslide within the proposed site itself. However, a recent landslide event, which took place on December 30, 2017,

occurred near its northernmost boundary. This landslide event was triggered by continuous rainfall brought by Tropical Storm Urduja, which destroyed that road segment of the Burauen – Albuera Road, making it unpassable to two-wheel drive vehicles. Recently, construction of the damaged road has been underway, with the introduction of engineering mitigating measures.

IV. CONCLUSION

Based on the field assessment and the updating of the geohazard map, the proposed site is classified as having **Low to Moderate Landslide Susceptibility**.

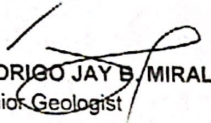
V. RECOMMENDATIONS

To enhance the suitability of the property, the following recommendations must be considered:

1. Strict compliance with the recommended actions as stated in the **Joint DENR-DILG-DND-DPWH-DOST Memorandum Circular No. 2014-01** which states that areas classified as having **low susceptibility to landslides** are zones wherein dwelling and development may be allowed provided that continuous monitoring of the slope (upslope and on site) is conducted. Furthermore, areas classified as having **moderate susceptibility to landslides** are zones wherein dwelling and development may be allowed provided that appropriate engineering intervention measures are made with continuous monitoring.
2. The effects of the aforementioned geologic hazards and any other hazards that may be identified later, the topography and rock and soil types must be considered in the design or in any other modifications in the structures that will be constructed in the project site.
3. Appropriate drainage facilities should be constructed in the site interconnected to the main drainage system in the area.
4. The specifications in the National Building Code and Structural Code of the Philippines must be strictly followed and modified, if necessary, based on recent

events such as Typhoon Yolanda and occurrences of earthquakes in the Visayas area.

Prepared by


RODRIGO JAY B. MIRALLES
Senior Geologist

Noted by:

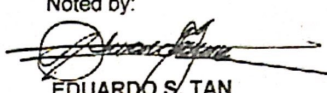

EDUARDO S. TAN
OIC, Geosciences Division

PHOTO DOCUMENTATION



Aerial view of Proposed Site for the *Balik Probinsya, Bagong Pagasa* Program at Barangay Villa Corazon, Burauen, Leyte.



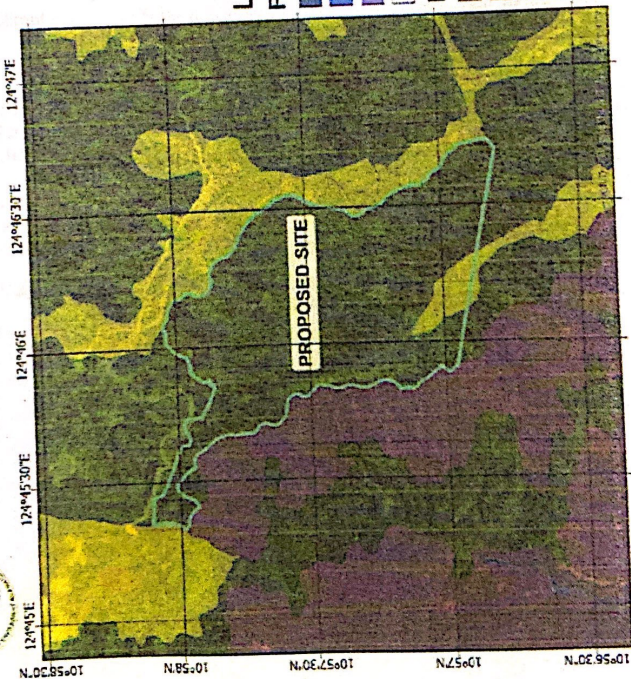
Tributary (in red arrow) proximate to the proposed site.



On-going construction (in red arrow) of road segment affected by recent landslide event.



LANDSLIDE AND FLOOD HAZARD MAP OF THE PROPOSED SITE FOR THE BALIK PROBINSYA, BAGONG PAGASA PROGRAM IN BRGY. VILLA CORAZON, BURAUEN, LEYTE



LEGEND :

- Flooding**
- Very high flood susceptibility
 - High flood susceptibility
 - Moderate flood susceptibility
 - Low flood susceptibility
- Landslide**
- Very high landslide susceptibility
 - High landslide susceptibility
 - Moderate landslide susceptibility
 - Low landslide susceptibility
 - Debris flow / Possible accumulation zone

IV. NORTHERN SAMAR - 99.509 Hectares

Site Description

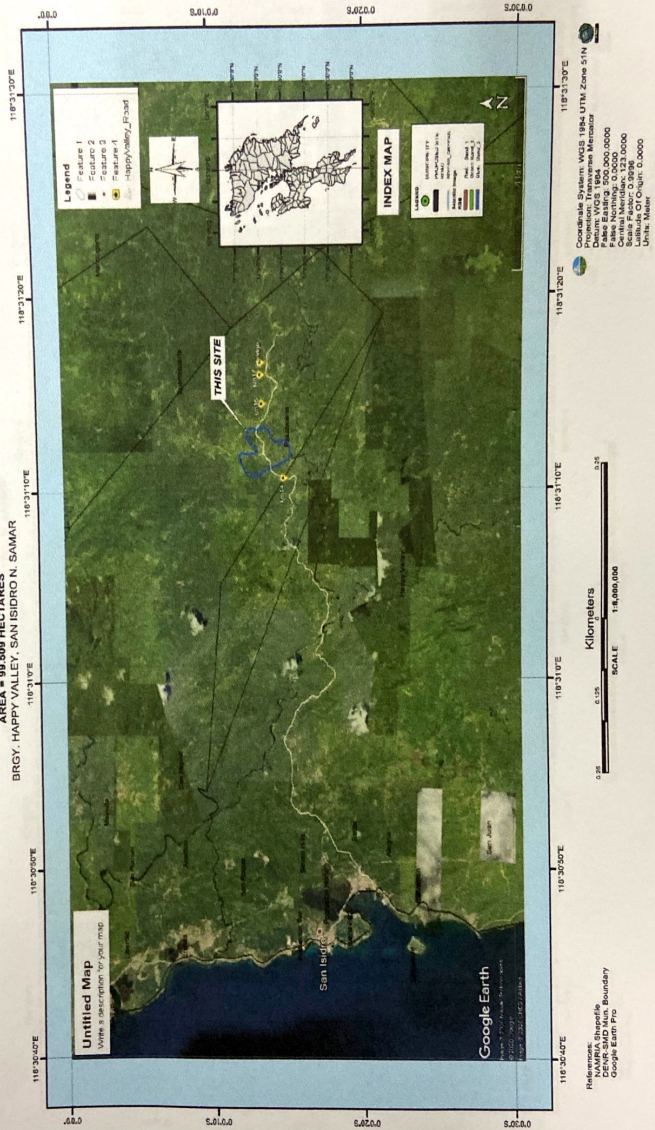
1. Location: Happy Valley, San Isidro, Northern Samar
Km. 16 - 12°24'7" N Latitude; 124°26'36.1" E Longitude
Km. 16 - 12°24'8.8 N Latitude; 124°26'58.5" E Longitude
Km. 18 - 12°24'8.4 N Latitude; 124°7'7" E Longitude
2. Forest Cover 70% Shrubs, 25% Perennial, 2.4% Built-up, 1.5% Grassland, 0.3% Open Forest, and 0.1% Annual Crop
3. Slope 3-8% (Steep)
4. Elevation 120-240 meters above sea level
5. Climate Type II - No dry season; maximum rain period from December to February, minimum rainfall from March to May
6. Immediate Employment Opportunities San Isidro to Lope de Vega road construction, public utility transport driver, and stevedoring
7. Long term sources of income Upland agriculture, ecotourism, livestock raising, and milk production
8. Vulnerability Moderate to High Landslide Susceptibility
High Flood Susceptibility (Appendix "D")

Proposed Landuse

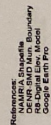
Ecotourism Farm:

| Current Landuse | Area Hectares | Proposal |
|-----------------|------------------|--|
| Open Forest | 0.63 | Fuelwood |
| Inland Water | 0.27 | Upland aquafarm |
| Grassland | 3.83 | Silvopasture |
| Perennial Crop | 63.85 | Cacao, Jackfruit, other shade-loving fruit trees |
| Brush/Shrubs | 177.36 | Agroforestry |
| Built-up | 6.04 | Settlement |
| | 251.97 | |

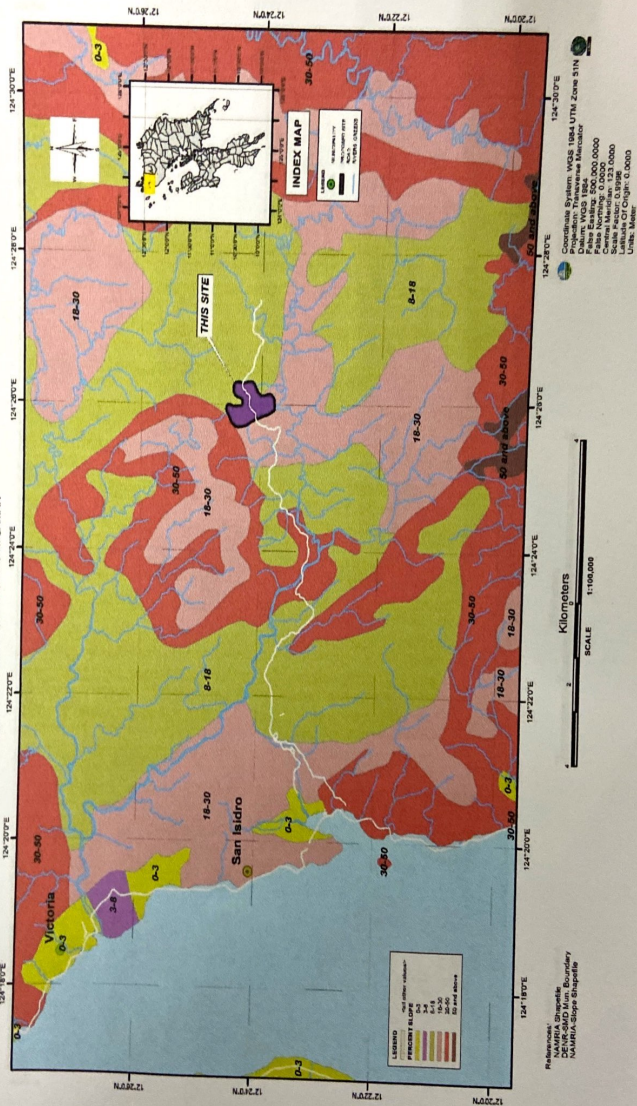
SATELLITE MAP OF PROPOSED SITE FOR BALIK PROBIKSYA, BAGONG PAG-ASA PROGRAM NABUHA SHIPWRECK, SAN ISIDRO N, SAMAR



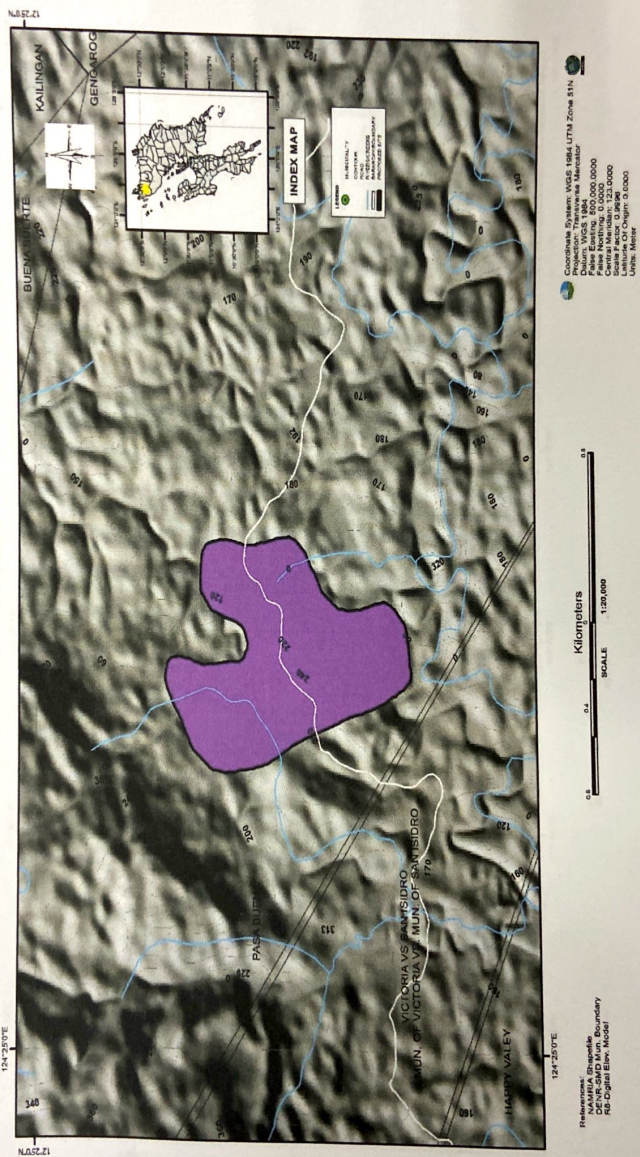
AREA = 99.509 HECTARES
BRGY. HAPPY VALLEY, SAN ISIDRO N. SAMAR



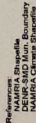
**SLOPE MAP OF
PROPOSED SITE FOR BALIK TIRANSA, BACONG PAG-ASA PROGRAM
ABEZ 1980-1985
BRGY HAPPY VALLEY, SAN ISIDRO N. SAMAR**



ELEVATION MAP OF
PROPOSED SITE FOR BALIK PROBINSYA, BAGONG PAG-ASA PROGRAM
AREA = 99.509 HECTARES
BRGY. HAPPY VALLEY, SAN ISIDRO N. SAMAR



BRGY. HAPPY VALLEY, SAN ISIDRO N. SAMAR



**LANDCOVER MAP OF
PROPOSED SITE FOR BALIK PROBINSYA, BAGONG PAG-ASA PROGRAM
AREA = 99,599 HECTARES
BRGY. HAPPY VALLEY, SAN ISIDRO N. SAMAR**

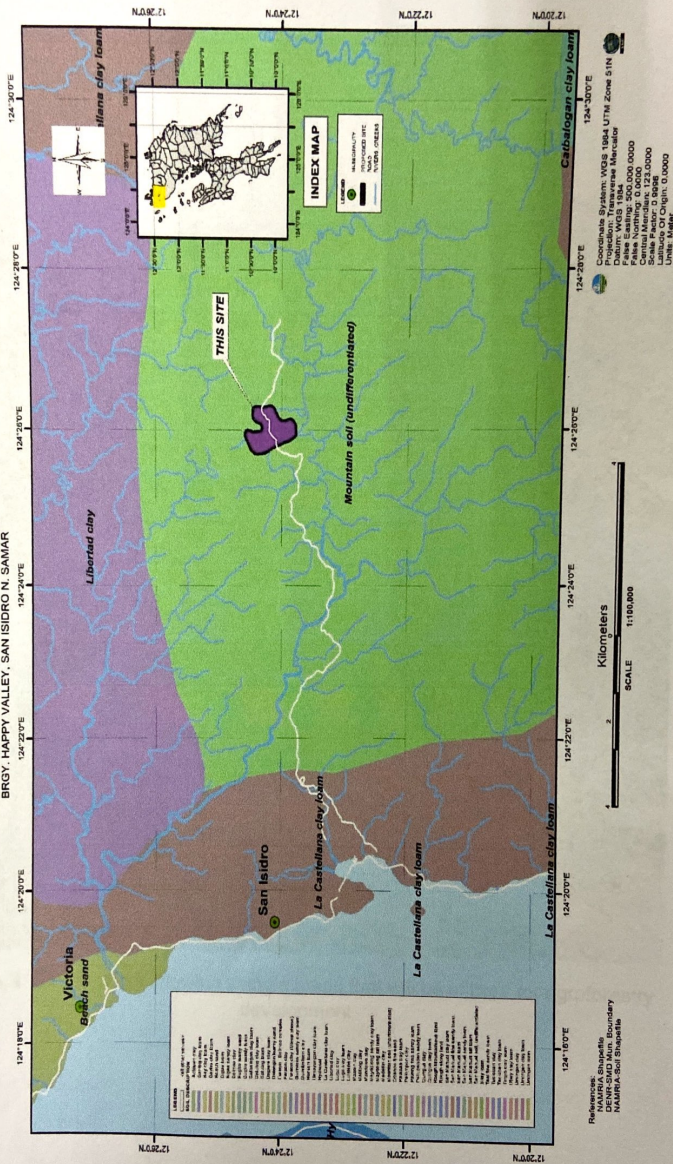




Figure 3. Drone shots showing kaingin areas that will be utilized for agroforestry development



Figure 2. Other areas suitable for the agroforestry land use management system

EXISTING INFRASTRUCTURE DEVELOPMENT NEEDED FOR LONG-TERM DEVELOPMENT FOR PROPOSED BP2 SITE IN SAN ISIDRO, NORTHERN SAMAR

- Irrigation facilities
- Access roads to ecotourism sites
- Upgrading of water system to Level 3
- Sports and recreational facilities

BUDGETARY REQUIREMENTS: Php 137,203.00

- | | |
|---|-------------|
| ○ Public Consultation | - 10,000.00 |
| ○ Site Verification | - 54,730.00 |
| ○ Identification/Validation of proposed livelihood projects | - 60,000.00 |
| ○ PMS | - 12,473.00 |

PROJECT SCHEDULE :

| ACTIVITY | DURATION |
|--|-------------|
| 1. Creation of Technical Working Group | April 2021 |
| 2. Public Consultation | August 2021 |
| 3. Site Verification | August 2021 |
| 4. Identification and validation of proposed livelihood projects | August 2021 |

Department of Environment and Natural Resources - Region 8
FY 2021 Physical and Financial Plan
(In Thousand Pesos)

Department: Environment and Natural Resources
Agency/Bureau/Office: Region 8
Program/ Project/activity

| Department: Environment and Natural Resources Agency/ Bureau/Office: Region 8 Program/ Project/activity | | | | 2021 Financial Performance Target | | | | | | | | | | | | | |
|--|--|--|--|-----------------------------------|-----------|----------------------------------|-------------|-------------|-------------|-------|------------|-----------------------------------|-------------|-------------|-------------|-------|-----|
| PARTICULAR | Unit Cost | PERFORMANCE INDICATOR | Provincial Municipality | FY 2020 | | 2021 Physical Performance Target | | | | | Exp. Class | 2021 Financial Performance Target | | | | TOTAL | |
| | | | | Accomplishment | | Q1 Estimate | Q2 Estimate | Q3 Estimate | Q4 Estimate | TOTAL | | Q1 Estimate | Q2 Estimate | Q3 Estimate | Q4 Estimate | | |
| | | | | Physical | Financial | | | | | | | | | | | | |
| (1) | (2) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | |
| | | Region 8 | | | | | | | | | | TOTAL | - | - | 892 | - | 892 |
| | | | | | | | | | | | | MOOE | - | - | 892 | - | 892 |
| BALIK PROBINSYA, BAGONG PAGASA (BP2) PROGRAM AND PROJECTS | | | | | | | | | | | | | | | | | |
| | | | Regional Office | | | | | | | | | | | | | | |
| | | | Burauen, Leyte (268.52 has.) Daangbayan, E. Samar (118 has.) Lorente, E. Samar (480.67 has.) San Isidro, N. Samar (99.509 has.) | | | | | 1 | | | 1 | MOOE | | | | | - |
| 1. Creation of BP2 TWG | | | | | | | | | | | | | | | | | 40 |
| 2. Public Consultation | 10,000/meeting | Public consultation conducted (no.) | | | | | | | | 4 | | 4 | MOOE | | | 531 | 531 |
| 3. Survey Mapping and Planning | 550/ha | Site Verification conducted (no.) | | | | | | | | 4 | | 4 | MOOE | | | | |
| 4. Identification and validation of proposed livelihood projects | livelihood project identified/ validated | Identified and validated proposed livelihood projects with reports submitted (no.) | | | | | | | | 4 | | 4 | MOOE | | | 240 | 240 |
| 5. Project Management and Supervision | | | | | | | | | | | | | MOOE | | | 81 | 81 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Approved <u> </u> | | | | | | | | | | | | | | | | | |

Approved by:

MARSSA N. SOLITE
OIC Chief, CDD

Prepared by:

LEIRA B. ROMERO
Engineering Officer



Republic of the Philippines
Department of Environment and Natural Resources
MINES AND GEOSCIENCES BUREAU
Regional Office No. VIII
MacArthur Park, Candahug, Palo, Leyte 6501
Tel. Nos. (+63 53) 323-8000, 323-8010, 323-8011; Telefax No. (+63 53) 532-4214; Email: ro8@mnb.gov.ph; Website: www.mnb.gov.ph

MEMORANDUM

DATE: July 27, 2020

FOR: **TIRSO P. PARIAN JR. CESO IV**
OIC-Regional Executive Director
Department of Environment and Natural Resources
Regional Office No. VIII, Tacloban City

FROM: **The Regional Director**
Mines and Geosciences Bureau Regional Office No. VIII
MacArthur Park, Candahug, Palo, Leyte

SUBJECT: **GEOHAZARD ASSESSMENT REPORT ON THE BALIK PROBINSYA, BAGONG PAGASA PROGRAM PROPOSED SITE LOCATED AT BARANGAY HAPPY VALLEY, MUNICIPALITY OF SAN ISIDRO, PROVINCE OF NORTHERN SAMAR**

APPENDIX "D"

07-20-2020

RELEASED

DATE 28 JUL 2020

THRU:

BY:

000-DENR RO

RECEIVED

NAME: *And*

DATE: *Aug. 10, 2020*

TIME: *2:00 pm*

This is in reference to your Memorandum dated June 1, 2020, with regards to MGB's participation in the conduct of site validation of the proposed *Balik Probinsya, Begong Pag-asa* Program Site in the Province of Northern Samar.

Based on the Geohazard Map of Eastern Visayas (Region VIII) and on the field assessment conducted, the proposed site in Brgy. Happy Valley, San Isidro, Northern Samar is classified as having **Moderate to High Landslide Susceptibility Rating and High Flood Susceptibility Rating**. As per Joint DENR-DILG-DND-DPWH-DOST Memorandum Circular No. 2014-01, in **Moderate Landslide Susceptibility areas**, dwelling and development may be allowed provided that appropriate engineering intervention measures are made with continuous monitoring. In **High Landslide Susceptibility areas**, dwelling should not be allowed. In **High Flood Susceptibility areas**, it is recommended as not suitable for commercial, industrial, residential (subdivisions), and institutional developments.

Attached is the Geohazard Assessment Report.

Thank you very much.

LEO VAN V. JUGUAN, CESO V



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



GEOHAZARD ASSESSMENT REPORT ON THE PROPOSED BALIK PROBINSYA, BAGONG PAGASA PROGRAM LOCATED AT THE BARANGAY HAPPY VALLEY MUNICIPALITY OF SAN ISIDRO, PROVINCE OF NORTHERN SAMAR

I. INTRODUCTION

A joint site inspection was conducted for ground validation of the proposed *Balik Probinsya, Bagong Pag-asa (BP²)* Program located at Barangay Happy Valley, Municipality of San Isidro, Province of Northern Samar. The joint field assessment was conducted on June 5, 2020 by the undersigned, together with technical personnel from the Department of Environment and Natural Resources Regional Office VIII (DENR-ROVIII), Provincial Environment and Natural Resources - Northern Samar (PENRO-Northern Samar) Community Environment and Natural Resources – Catarman (CENRO-Catarman).

II. BACKGROUND INFORMATION

On May 6, 2020, Executive Order No. 114 entitled "Institutionalizing the Balik Probinsya, Bagong Pag-asa (BP²) Program as a Pillar of Balanced Regional Development, Creating a Council Therefor, and for Other Purposes" was issued by the President, through Executive Secretary Salvador C. Medialdea. With the policy of balanced regional development and equitable distribution of wealth, resources and opportunities, the order was issued to reverse migration to the National Capital Region and other congested metropolises through the promotion of countryside development and inclusive growth. As part of the Balik Probinsya, Bagong Pagasa Council, the Department of Environment and Natural Resources (DENR) was tasked to identify proposed sites suitable for the program. The Mines and Geosciences Bureau, for its part, was tasked to ascertain that the site is habitable and not vulnerable to geohazards such as flood and landslide.

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

Prior to the conduct of the joint site assessment, the proposed site has already been identified by the Provincial Environment and Natural Resources – Northern Samar (PENRO-Northern Samar). On the day of the assessment, the team proceeded to the Municipal Hall of the Local Government Unit of San Isidro to coordinate with the Office of the Municipal Mayor, as well as to gather pertinent data from concerned departments in the LGU.

III. FINDINGS AND OBSERVATIONS

1. The proposed site is located at Barangay Happy Valley, San Isidro, Province of Northern Samar.
2. The Municipality of San Isidro, Province of Northern Samar can be reached from Tacloban City by heading northwest, taking the Pan Philippine Highway, all the way to its town proper. It is 237 kilometers away from Tacloban City and can be reached in around a 5-hour vehicle drive. Barangay Happy Valley can be accessed through its farm-to-market road approximately 14 kilometers northeast of the town proper, which roughly takes 30 minutes through the use of any two-wheel drive vehicle.
3. The site is situated on a moderately- to steeply-sloping terrain drained by Mawo River and its tributaries. It is mainly covered by brush/shrubs and perennial crops. Based on the Geologic Map of the area, the site is underlain by Early to Middle Miocene volcanic rock of andesite, basalt, dacite, lava flow, agglomerate, tuff and locally intercalated sedimentary rocks. Exposure of volcanic rocks were noted along road cuts in Sitios Kilometer 16 and 17. Elevation ranges from approximately 130 to 180 masl.
4. During the field assessment, the Team coordinated with the Local Government Unit of San Isidro, Northern Samar. The Team also coordinated with the Barangay Local Government Unit (BLGU) of Happy Valley and was accompanied by the Philippine National Police (PNP) San Isidro.
5. The site assessment encompasses Sitios Kilometer 16 and Kilometer 17. Based from interviews with the residents of Sitio Kilometer 16 in Barangay Happy Valley, there was no recorded flooding within the area since floodwater do not reach the

houses due to its elevation. However, relatively low-lying areas with close distance to the tributaries of Mawo River are susceptible to flooding.

6. Tributaries of Mawo river traverses the southeastern and southwestern portion of the Proposed Site trending NE-SW and N-S respectively.
7. Moderately weathered soil were observed along the roads of Sitio Kilometer 16 and 17 along moderate to steeply sloping road cuts. Soil creeping was also evident along the proposed site. Presence of terracettes were observed near few houses proximal to the river and quarry site in Sitio Kilometer 17. Soil erosion was noted along Mawo River banks and its tributaries in Sitio Kilometer 17.

IV. CONCLUSION

Based on the Geohazard Map of Eastern Visayas (Region VIII), the proposed site is classified as having **Moderate Landslide Susceptibility Rating** and **High Flood Susceptibility Rating**. Moreover, based on the site assessment, areas along the road with steep slope cuts are classified as having **High Landslide Susceptibility Rating**.

V. RECOMMENDATIONS

To enhance the suitability of the property, the following recommendations must be considered:

1. Strict compliance with the recommended actions as stated in the Joint DENR-DILG-DND-DPWH-DOST Memorandum Circular No. 2014-01 (Table 1).

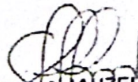
Table 1. Hazard zone classifications and recommended actions

| HAZARD | HAZARD ZONE |
|-----------|--|
| | MODERATE |
| LANDSLIDE | <ul style="list-style-type: none">• Dwelling and development may be allowed provided that appropriate engineering intervention measures are made with continuous monitoring. |
| | <ul style="list-style-type: none">• Evacuation centers should not be established in this zone. |

| | |
|--------------|---|
| | <p>HIGH</p> <ul style="list-style-type: none"> • Dwelling should not be allowed. Critical facilities may be allowed provided that appropriate engineering intervention measures are implemented with continuous monitoring. • Evacuation centers should not be established in this zone. • Landslide warning signages should be installed in this zone. |
| FLOOD | <p>HIGH</p> <ul style="list-style-type: none"> • During impending flood events, all people except disaster response personnel should not be in this zone. • Evacuation centers should not be established in this zone. • Floodplains should be used as retention basins to accommodate swelling of rivers. These places may be transformed into recreational areas such as parks, etc., provided possible flood heights are considered in the design. • Appropriate flood control mitigation structures, i.e., dikes, revetments, spur dikes, detention tanks, may be recommended and approved by DPWH. • Recommended as not suitable for commercial, industrial, residential (subdivisions), and institutional developments. • Flood warning signages should be installed in this zone. |

- The effects of the aforementioned geologic hazards and any other hazards that may be identified later, the topography and rock and soil types must be considered in the design or in any other modifications in the structures that will be constructed in the project site.
- Other hazards that may affect the project site:
 - Differential settlement, earthquake hazards (ground shaking, lateral spreading and liquefaction). Liquefaction occurs in areas underlain by loose sediments and saturated with water.
- Appropriate drainage facilities should be constructed in the site interconnected to the main drainage system in the area.
- The specifications in the National Building Code and Structural Code of the Philippines must be strictly followed and modified, if necessary, based on recent events such as Typhoon Yolanda and occurrences of earthquakes in the Visayas area.

Prepared by:


JOBENA JAHZEL S. BARASONA
 Geologist

Noted By:


EDUARDO S. TAN
 OIC, Geosciences Division

PHOTO DOCUMENTATION



Coordination of MGB-R08 and DENR-R08 Personnel with PENRO-Northern Samar Angelito B. Villanueva



Coordination of the Team with LGU San Isidro through the Office of the Municipal Mayor



Operation of Drone Cameras at Sitio Kilometer 14, Brgy. Happy Valley, Northern Samar together with DENR-ROVIII, PENRO-Northern Samar, and CENRO-Catarman for the Balik Probinsya, Bagong Pagasa Program



Drone Photo 1 of the Proposed Site for the Balik Probinsya, Bagong Pagasa Program in Sitio Kilometer 16



Drone Photo 2 of Quarry Site located at Sitio Kilometer 16 in Barangay Happy Valley, San Isidro, Northern Samar.



Drone Photo 3 of the Proposed Site for the Balik Probinsya, Bagong Pagasa Program in Sitio Kilometer 16, Brgy. Happy Valley, San Isidro, Northern Samar

GEOHAZARD MAP OF THE PROPOSED BALIK PROBINSYA, BAGONG PAGASA PROGRAM SITE LOCATED AT BARANGAY HAPPY VALLEY, SAN ISIDRO, NORTHERN SAMAR

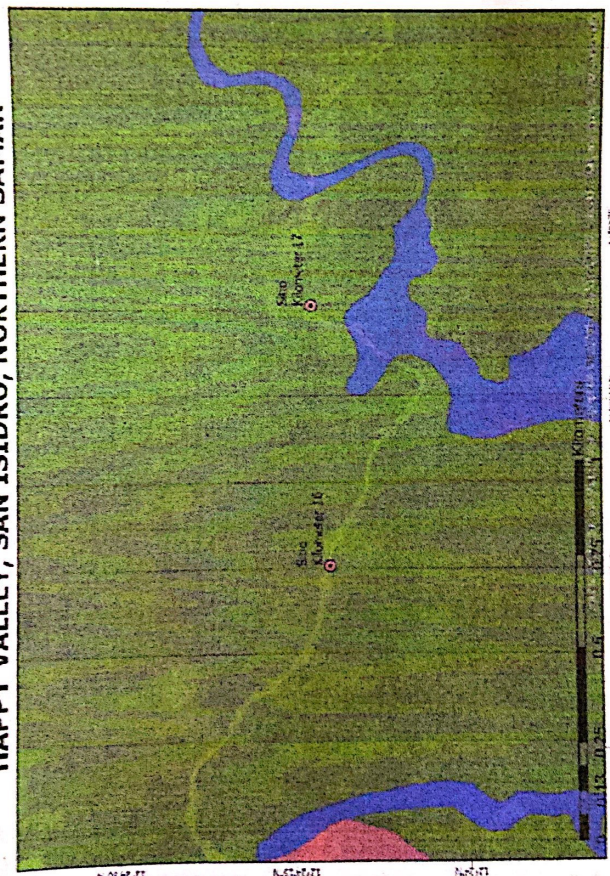


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LEGEND

- Landslide Susceptibility Rating**
- Very High (Red)
 - High (Orange)
 - Medium (Yellow)
 - Low (Light Green)
 - Very Low (Dark Green)
- Flood Susceptibility Rating**
- Very High (Dark Blue)
 - High (Medium Blue)
 - Medium (Light Blue)
 - Low (Very Light Blue)
 - Very Low (White)
- Proposed Site**
- Proposed Site (Red circle with dot)



Department of Environment and Natural Resources
Bureau of Geology and Mines
Geological Engineering Division
Geological Engineering Office No. 2

Geological Engineering
Geological Engineering Office No. 2

Geological Engineering

Geological Engineering Office No. 2
Geological Engineering Office No. 2

Geological Engineering Office No. 2
Geological Engineering Office No. 2



Republic of the Philippines
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

Sto. Niño Extension, Region 8, Tacloban City 6500
Tel. No. (053) 832-0803 Fax No. (053) 832-0032

MEMORANDUM

FOR : THE UNDERSECRETARY
Field Operations, Enforcement and Muslim Affairs
DENR, Visayas Avenue, Diliman
Quezon City

FROM : THE REGIONAL EXECUTIVE DIRECTOR
DENR Region VIII, Tacloban City

SUBJECT : SUBMISSION OF PROJECT PROPOSAL RE: BALIK
PROBINSYA, BAGONG PAGASA (BP²) PROGRAM

DATE : May 22, 2020

In compliance with your Memorandum dated May 8, 2020 on the aforementioned subject, please find herewith attached is Region VIII's project proposal for said program. The proposed sites in Eastern Visayas are at Barangays Caisawan and Cantubi, Balangkayan, Eastern Samar covering 118.01 hectares; Baragays Maca-anga and Barobo, Llorente, Eastern Samar comprising 480.67 hectares; Barangay Happy Valley, San Isidro, Northern Samar having 252 hectares; and Barangay Villa Corazon, Burauen, Leyte covering 267 hectares. These sites conform with the criteria- untenured forest lands, accessible and habitable.

The potential sustainable livelihood opportunities in Balangkayan and Llorente include agroforestry, sand and gravel (SAG) quarrying, rice and rootcrop production, and ecotourism. Moreover, upland agriculture, ecotourism, livestock and milk production can be had in San Isidro, and for Burauen, upland agriculture, rattan handicraft, cut flower production and livestock trading are feasible.

Meanwhile, only the proposed sites in Eastern Samar are backstopped with geohazard maps as validated by MGB since a geologist was with the team that reconnoitered the area. Those of Northern Samar and Leyte have still

to undergo site validation. We will submit the validated geohazard maps of the proposed sites identified in Northern Samar and Leyte provinces once the field validation by a geologist will be completed.

For information, evaluation and further instruction.



TIRSO P. PARIAN, JR., CESO IV

Encl.: a/s



RECORDS UNIT
RECEIVED

NAME: P. AR-OR-NO
DATE: AR-OR-NO

MEMORANDUM

TO : ALL REGIONAL EXECUTIVE DIRECTORS
Except National Capital Region

FROM : THE UNDERSECRETARY
Field Operations, Enforcement and Muslim Affairs

SUBJECT : EXECUTIVE ORDER NO. 114 ALSO KNOWN AS BALIK
PROBINSYA, BAGONG PAGASA (BP²) PROGRAM

DATE : May 8, 2020

With the recent issuance of Executive Order No. 114 dated May 06, 2020 entitled **"INSTITUTIONALIZING THE BALIK PROBINSYA, BAGONG PAGASA (BP²) AS A PILLAR OF BALANCED REGIONAL DEVELOPMENT, CREATING A COUNCIL THEREFOR, AND FOR OTHER PURPOSES"** aims to decongest the National Capital Region (NCR) and other metropolises, provide a balanced regional development program, and to attain rural prosperity through equitable distribution of wealth, resources and opportunities.

The DENR, as member of the BP² Council, has to be data-ready during the incoming coordination meetings with the Council. Henceforth, all Regional Executive Directors (REDs) are directed to identify at least one (1) proposed BP² area/site per region. The site must be outside of a tenured area, accessible, and habitable with geohazard map as validated by Mines and Geoscience Bureau (MGB).

Submit the BP² project proposal with site profile, maps (location and field lay-out), potential sustainable livelihood opportunities, prospective social welfare, health and employment necessities, and required infrastructure development, among others. The subject proposal must reach this Office, fifteen (15) days upon receipt hereof.

Attached is the E.O. 114 S. 2020 for your reference and guidance.

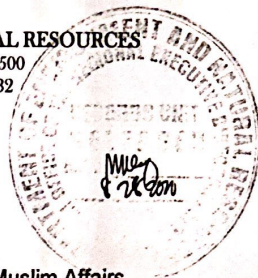
For immediate and strict compliance.

JUAN SAMFULNA

Annex - 354



Republic of the Philippines
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
Sto. Niño Extension, Region 8, Tacloban City 6500
Tel. No. (053) 832-0803 Fax No. (053) 832-0032



MEMORANDUM

FOR : **THE UNDERSECRETARY**
Field Operations, Enforcement and Muslim Affairs
DENR, Visayas Avenue, Diliman
Quezon City

FROM : **THE REGIONAL EXECUTIVE DIRECTOR**
DENR Region VIII, Tacloban City

SUBJECT : **UPDATED DATA/INFORMATION RE: OTHER PROPOSED BALIK**
PROBINSYA, BAGONG PAGASA (BP²) PROGRAM SITES IN
EASTERN VISAYAS


DATE : August 17, 2020

Relative to our Memorandum sent to your Office dated May 22/2020 re: submission of proposal for BP² Program, please find herewith attached updated profiles with validated geohazard maps of the other two (2) proposed Balik Probinsya, Bagong Pagasa (BP2) Program sites in Region VIII.

These sites are located at Barangay Villa Corazon, Burauen, Leyte which covers 266.52 hectares; and Barangay Happy Valley, San Isidro, Northern Samar which encloses 99.509 hectares. For both sites, agroforestry development is highly recommended.

Said areas have undergone site assessment and field validation by a geologist from MBG Region 8 and technical personnel from the Conservation and Development Division of the Regional Office, together with staffs from the concerned PENR/CENR Offices.

For your information, evaluation and further instruction.


TIRSO P. PARIAN, JR., CESO IV in on (1) A4 sticking folder.

Encs.: a/s

mailed this file has no attachment.