



DENR MIMAROPA RECORDS SECTION RECEIVED	
MAR 31 2023	
<input type="checkbox"/> INCOMING	<input type="checkbox"/> OUTGOING
BY: _____	DATS NO. _____
TIME: March 22, 2023 1050m	

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region

THRU : ARD for Technical Services Division

FROM : The OIC-PENR Officer
Oriental Mindoro

SUBJECT : **APPLICATION FOR ADDITIONAL GRATUITOUS SPECIAL USE PERMIT (GSUP) FOR THE SPECIAL USE OF FARM TO MARKET ROAD (FMR) AND CONSTRUCTION OF BRIDGE TO BE FUNDED BY THE DEPARTMENT OF AGRICULTURE – PHILIPPINE RURAL DEVELOPMENT PROEJCT (DA-RDP) AT SO. CENTRO-PANLUAN-BALITE,BRGY. HAGAN, BONGABONG, ORIENTAL MINDORO**

Forwarded is the application for the additional Gratuitous Special Use Permit (GSUP) for the special use of farm to market road and construction of bridge located at Brgy. Hagan, Bongabong with the following attachments:

1. Memorandum of Engr. Caesar E. Quebec, CENR Officer Roxas, Oriental Mindoro dated March 16, 2023
2. Letter of Intent of the Municipal Mayor of Bongabong, Oriental Mindoro
3. Duly accomplished application form and corresponding Official Receipt No. 0953756A of the application fee in the amount of Php 3,000.00
4. Certification from the National Commission of Indigenous People
5. Excerpts from the minutes of the 32nd regular session of the 11th Sangguniang Bayan of Bongabong, Oriental Mindoro held on March 13, 2023 approving the resolution of the Municipal Development Council resolution No. 45 S. 2023 with the title "Resolution Authorizing the Municipal Mayor, Hon. Elegio A. Malaluan, O.D. to apply for the additional expansion of coverage of Gratuitous Special Land use permit (GSUP) (Farm to Market Road) under the Department of Agriculture-Philippine Rural Development Project (DA-PRDP) situated at Brgy. Hagan, Bongabong, Oriental Mindoro'.
6. Excerpts from the minutes of the 32nd regular session of the 11th Sangguniang Bayan of Bongabong, Oriental Mindoro held on March 13, 2023 approving the resolution of the Municipal Development Council resolution No. 46 S. 2023 with the title "Resolution interposing no objection to the application of the additional expansion of coverage of Gratuitous Special Land use Permit (GSUP) (Farm to Market Road) under the Department of Agriculture-Philippine Rural Development Project (DA-PRDP) situated at Brgy. Hagan, Bongabong, Oriental Mindoro'.
7. Indicative Management Plan of the FMR project
8. Tally sheet of the trees inventoried and geo-tagged photos
9. Detailed Engineering Design of the proposed project

For information, records and evaluation.


ALAN VALLE



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region

Community Environment and Natural Resources Office

Camia St., San Mariano, Roxas, Oriental Mindoro

Contact No.: 0917 876 9985 / 0917 169 0232

VOIP: (043) 289-7118

Email: cenroroxasormindoro@denr.gov.ph

March 16, 2023

MEMORANDUM

FOR : The Regional Executive Director
DENR MIMAROPA Region
DENR by the Bay 1515 L&S Bldg.
Roxas Blvd., Manila

Thru : The OIC-PENR Officer
Suqui, Calapan City

FROM : The CENR Officer
San Mariano, Roxas, Oriental Mindoro

SUBJECT : **APPLICATION FOR ADDITIONAL COVERAGE OF GRATUITOUS SPECIAL USE PERMIT (GSUP) FOR THE SPECIAL USE OF SOME PORTION OF FORESTLAND ON THE CONCRETING OF FARM TO MARKET ROAD (FMR) AND CONSTRUCTION OF BRIDGE TO BE FUNDED BY THE DEPARTMENT OF AGRICULTURE-PHILIPPINE RURAL DEVELOPMENT PROJECT (DA-PRDP) AT SO. CENTRO-PANLUAN-BALITE, BRGY. HAGAN, BONGABONG, ORIENTAL MINDORO**

DENR-MIMAROPA REGION	
PROVINCIAL ENVIRONMENT AND NATURAL RESOURCES OFFICE	
ORIENTAL MINDORO	
PENRO TRACKING NO.	
RECEIVED BY:	<i>[Signature]</i>
DATE:	MAR 17 2023
TIME:	

This is in connection with the application of Mayor Eligio A. Malaluan to increase the coverage of their previously issued Gratuitous Special Use Permit (GSUP) for the special use of some portion of forestland for the concreting of Farm to Market Road and construction of bridge that will be funded through the Department of Agriculture-Philippine Rural Development Project (DA-PRDP) situated at So. Centro-Panluan-Balite, Brgy. Hagan, Bongabong, Oriental Mindoro. This office respectfully forwarding the application of the Local Government Unit of Bongabong, Oriental Mindoro represented by the Municipal Mayor, Hon. Elegio A. Malalunan, O.D., on the aboved-cited subject together with the pertinent documents, to wit:

1. Letter of intent of the Municipal Mayor;
2. Duly accomplished application form and corresponding fee in the amount of Php3,000.00 paid under OR No. 0953756;
3. Certification from the National Commission on Indigenous Peoples;
4. Excerpts from the minutes of 32nd regular session of the 11th Sangguniang Bayan of Bongabong, Or.Mdo. held on March 13, 2023 approving the resolution on the



Community Environment and Natural Resources Office

Camia St., San Mariano, Roxas, Oriental Mindoro

Contact No.: 0917 876 9985 / 0917 169 0232

VOIP: (043) 289-7118

Email: cenroroxasormindoro@denr.gov.ph

Municipal Development Council Resolution No. 45,S. 2023 with the title: "Resolution authorizing the Municipal Mayor, Hon. Elegio A. Malalunan, O.D.,to apply for the additional/expansion of coverage Gratuitous Special Land use Permit (GSUP) (Farm to Market Road) under the Department of Agriculture-Philippine Rural Development Project (DA-PRDP) situated at Brgy. Hagan, Bongabong, Oriental Mindoro;

5. Excerpts from the minutes of 32nd regular session of the 11th Sangguniang Bayan of Bongabong, Or.Mdo. held on March 13,2023 approving the resolution on the Municipal Development Council Resolution No. 46,S. 2023 with the title: "Resolution interposing no objection to the application for the additional/expansion of coverage Gratuitous Special Land use Permit (GSUP) (Farm to Market Road) under the Department of Agriculture-Philippine Rural Development Project (DA-PRDP) situated at Brgy. Hagan, Bongabong, Oriental Mindoro;
6. Indicative Management Plan of the FMR project;
7. Tally sheet of trees inventoried and geotagged photos;
8. Detailed Engineering Design;

The Municipal LGU of Bongabong, Oriental Mindoro coordinated to this office regarding the additional coverage of their issued GSUP (DENR-MIMAROPA-GSUP-2022-04) approved on July 15, 2022. The additional five meters additional coverage both sides which comprises of ten meters is for slope protection addressing natural hazards that may occur which includes some mitigating measures such as riprap and vegetation methods while the ten meters width indicated on their approved GSUP is for the road width.

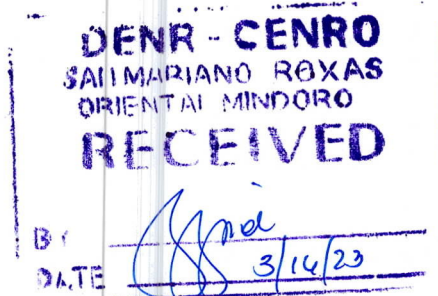
Please be informed that we already submitted the documents done by this office dated March 9, 2023 relative to this matter.

For information and record.


ENGR. CAESAR E. QUEBEC



REPUBLIC OF THE PHILIPPINES
PROVINCE OF ORIENTAL MINDORO
MUNICIPALITY OF BONGABONG
Oriental Mindoro, Philippines
Email Address: mpdobongabong20@gmail.com



TRANSMITTAL

15th of March, 2023

Respectfully forwarded to the **OFFICE OF THE COMMUNITY ENVIRONMENT AND NATURAL RESOURCES (CENRO)**, a copy of **Letter of Intent, Indicative Management Plan, NCIP Certification, Resolution and Tally of Trees** for the Gratuitous Special Use Permit Application of the Philippine Rural Development Project (PRDP) Proposed Sub-Project (**Concreting of Centro-Panluan-Balite, Hagan Farm to Market Road with Bridge**) at Barangay Hagan, Bongabong, Oriental Mindoro for your reference.


GREGORIO S. REYES, EnP
MPDC





OFFICE OF THE MUNICIPAL MAYOR

MUNICIPALITY OF BONGABONG

Oriental Mindoro, Philippines

 municipalityofbongabong@gmail.com

 bongabong.gov.ph

 0920-969-6020

15th March 2022

LORMELYN E. CLAUDIO, CESO IV

Regional Executive Director

DENR MIMAROPA

Attention: Engr. CAESAR E. QUEBEC

CENRO

San Mariano, Roxas , Oriental Mindoro

Dear Ma'am,

This is with regard to the proposed Farm-to-Market Road (FMR) Sub-Project from the Department of Agriculture-Philippine Rural Development Project DA-PRDP) situated in the Municipality of Bongabong, Oriental Mindoro titled "Concreting of Centro-Panluan –Balete, Hagan Farm to Market Road with Bridge".

As per Community Environment and Natural Resources (CENRO) record, Barangay Hagan falls within the Forestland Area per Land Classification (LC) Map No. 2367, Project No. 2-I dated April 29, 1960 with an approximately length of 2.061 kilometers while the other portion falls within Alienable and Disposable with an approximately length of 7.919 kilometers under Proclamation 2073 dated March 31, 1981. A copy of a Certification from Engr. Caesar E. Quebec, CENRO of San Mariano, Roxas, Oriental Mindoro is attached herewith.

The Objective of this proposed Concreting is to:

1. Contribute to the improvement of the overall socio-economic condition of the people in the area.
2. Increase in agricultural production through intensifying agricultural cropping season and development of potential agricultural lands in the area.
3. Increased income of farmers due to the increase in income in agricultural production.
4. Improve road accessibility and provide safe and cost-effective roads.

The proposed site is having an existing road length of more or less 10 kilometers with various cuts due to presence of narrow springs extending from Sitio Centro to Sitio Balete. The proposed project is the concreting of the 9.98-kilometer road. The said project is a Provincial Road which is stated in inventory of roads conducted by the Provincial Engineering Office of Oriental Mindoro with certification dated January 13, 2021. It includes widening and concreting of the mentioned road. Additionally, for the purpose of addressing natural hazards that may occur, the project design includes some mitigating measures such as riprap and vegetation which requires additional 5



"The Organic Farming Capital of Oriental Mindoro"





OFFICE OF THE MUNICIPAL MAYOR

MUNICIPALITY OF BONGABONG

Oriental Mindoro, Philippines

✉ municipalityofbongabong@gmail.com

🌐 bongabong.gov.ph

☎ 0920-969-6020

meters to both sides having a total of 10 meters at the area of forest land having an approximate length of 2,061 meters.

Regarding the physical attributes of the existing road, some of its portions are concrete, but, most of its parts are mixed of gravel and sand traversing low and high elevated portions of land consecutively. There were parts which traversed edges of mountains, bank of shallow and deep ravines, surface of river, and there were portions which literally cross the river and needs to be re-route. Alongside the proposed subproject are crops such as banana, coconut, fruit trees and other trees.

The existing road is arid and coarse during dry season while on rainy days, big problem occurs at the location. The road becomes slippery and muddy giving the Indigenous People and Tagalogs (both are direct beneficiaries) and other traders (indirect beneficiaries) hard days of roving the road wherein unfocused and careless driving could lead to intense accidents and massive loss of produce.

Additionally, the existing road serves as passage for huge vehicles (ten-wheeler truck, eight-wheeler truck, six-wheeler truck and huge jeepneys) from different barangays of Bongabong and some are from other municipalities to cater the agricultural products planted and harvested by indigenous people. These huge vehicles are for Buy and Sell Business of the indirect beneficiaries and some direct beneficiaries. They export the agricultural products of barangay Hagan in different markets around Philippines.

In this regard, the undersigned would like to respectfully request for the issuance of a GRATUITOUS SPECIAL LAND USED PERMIT for Centro-Panluan-Balite, Hagan Farm to Market Road with Bridge and to also exempt the said subprojects from the payment of annual rental fee.

The Municipality of Bongabong will not generate income from this project since the ultimate purpose is to improve the overall socio-economic condition of the people in the area by providing good road access especially to the people of Barangay Hagan.

Hoping that this request will merit your kind consideration in the spirit of public service.

Thank you and warm regards.

Very truly yours,


ELEGIO A. MALALUAN, O.D.
Municipal Mayor



"The Organic Farming Capital of Oriental Mindoro"



ANNEX A. Application Form

Application for Gratuitous Special Use Permit
Application No. 0953756

The CENRO/PENRO/RED
Department of Environment and Natural Resources
Region: MIMAROPA
PENRO: Oriental Mindoro
CENRO: Roxas

Sir/Madam:

Pursuant to the provisions of DENR Administrative Order No.2022-01 dated and other relevant laws, policies and regulations, I/We hereby apply for a Gratuitous Special Use Permit (GSUP), the particulars of which are as follows:

Type of special forest land use or project: Concreting of Centro-Panluan-Balite-Hagan Farm to Market Road

Approximate area (ha.): 4.122 hectares
Location: Province: Oriental Mindoro
Municipality/City: Bongabong
Barangay: Hagan
Sitio/s: Centro, Panluan & Balite

Geographic coordinates (UTM): Easting: 319063.30
Northing: 1409775.79

I/We understand that the filing of this application does not convey the right to enter, occupy or develop the area applied for, until the GSUP has been issued to me/us by the Department of Environment and Natural Resources through its concerned Regional Executive Director in this region.

All application requirements as stipulated in the guidelines on the matter are enclosed together with the required non-refundable application fee in the amount of Php 3,000.00.

Very truly yours,


ELEGIO A. MALALUAN, O.D.

Applicant (Signature over printed name)

Poblacion, Bongabong, Oriental Mindoro

Postal address
0917-562-0892
Contact number/s

Republic of the Philippines
Province of Oriental Mindoro
Municipality of Bongabong

16 MAR 2023

SUBSCRIBED AND SWORN to before me this _____ day of _____.

Affiant exhibited to me his/her government issued identification card bearing the code LTB 005-82-

004479



Doc. No. 404
Page No. 82
Book No. 11
Series of. 2023

Atty. Princess Janine R. Sy
Notary Public
Valid until: 31 December 2023
Roll Number: 78331

MCLE Compliance Initial compliance until 14 April 2025
TIN No.: 608-902-143-00000
IBP No: 282134 PTR No: 3036338A

ACCOUNTABLE FORM NO. 51
Revised January, 1992

ORIGINAL

	Official Receipt of the Republic of the Philippines		
	No. 0953756 A		
	Date MAR 16 2023		
Agency DENR-IV-ROXAS		Fund 101	
Payor LGU OF BONGABONG REP. BY HON. ELEGIO A. MALALUAN		POBLACION, BANGALONG, a. MUNICIPALITY	
Nature of Collection	Account Code	Amount	
APPLICATION FEE	40701990	3,000	
APPLICATION FEE FOR GRANTUING SPECIAL LAND USE PERMIT (SLUP) OF LGU BONGABONG PS PER DMD 2022-01			
TOTAL		3,000	
Amount in Words THREE THOUSAND PESOS ONLY			
<input checked="" type="checkbox"/> Cash	Drawee Bank	Number	Date
<input type="checkbox"/> Check			
<input type="checkbox"/> Money Order			
Received the amount stated above.			
 Collecting Officer			
NOTE: Write the number and date of this receipt on the back of check or money order received.			

CERTIFIED PHOTOCOPY OF
RECEIPT

ARABELLE FORTAMAYO
FTI / Acting Credit Officer
03-16-2023



Republic of the Philippines
Office of the President
NATIONAL COMMISSION ON INDIGENOUS PEOPLES
MIMAROPA REGIONAL OFFICE
3rd Floor Argo Building, 574, EDSA, corner P. Tuazon Avenue,
Quezon City, 1100 Metro Manila
region4b@ncip.gov.ph

June 24, 2022

ELEGIO A. MALALUAN, O.D.

Municipal Mayor
Municipality of Bongabong
Oriental Mindoro, Philippines

Re: Certification that NCIP MIMAROPA Certificate of Compliance is the same with NCIP MIMAROPA Certificate of Precondition.

Dear Hon. Malaluan:

Greetings!

This refers to your letter dated June 23, 2022 re: Clarification on Documentary Requirements from NCIP for LGU Bongabong for your project entitled "*Concreting of Centro-Panluan-Balite-Hagan Farm-to-Market Road with Bridge*".

This is to certify that the National Commission on Indigenous Peoples Region IV-B MIMAROPA issued Certificate of Compliance with Control No. CP RIV-ORMIN-2020-02-02 dated February 14, 2022 was same to Certificate of Precondition.

This further certify that Local Government Unit of Bongabong, Oriental Mindoro in relation to its proposed Construction of Centro-Panluan-Balete Farm to Market Road located in Barangay Hagan, Municipality of Bongabong, Province of Oriental Mindoro has satisfactorily complied with the requirements for the issuance of Certificate of Precondition as prescribe under Section 59 of RA 8371 and further supplemented by NCIP Administrative Order No. 3, Series of 2012 particularly Section 39 thereof.

Thank you very much for the usual support in the protection and promotion of the Indigenous People's/Indigenous Cultural Communities rights and welfare.

Very truly yours,


DR. MARIE GRACE T. PASCUA, CESO III
Regional Director 



Republic of the Philippines
OFFICE OF THE PRESIDENT
NATIONAL COMMISSION ON INDIGENOUS PEOPLES
MIMAROPA REGIONAL OFFICE

3rd Flr. ARGO Bldg., 574 EDSA, corner P. Tuazon Blvd.,
Cubao, Quezon City

CERTIFICATE OF COMPLIANCE

Control No. CP-RIV-ORMIN-2020-02-02

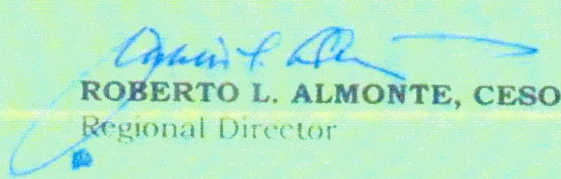
TO WHOM IT MAY CONCERN:

This is to certify that **LOCAL GOVERNMENT UNIT OF BONGABONG, ORIENTAL MINDORO** in relation to its proposed Construction of Centro-Panluan Balete Farm to Market Road to be located in Barangay Hagan, Municipality of Bongabong, Province of Oriental Mindoro has satisfactorily complied with the requirements for the issuance of Certification Precondition as prescribed under Section 59 of RA 8371 and further supplemented by NCIP Administrative Order No. 3, Series of 2012 particularly Section 39 thereof.

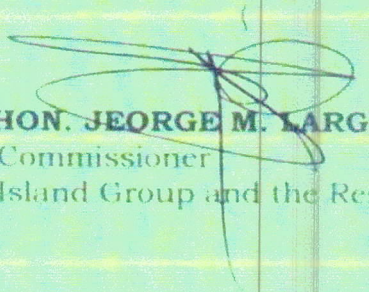
This Office, however, reserves whatever action needed to be undertaken to protect the rights and interest of the Indigenous Cultural Communities/Indigenous Peoples concerned, including the cancellation/revocation of this certification, as the case maybe.

Done this 14th day of February, 2020 at Cubao, Quezon City, Philippines.

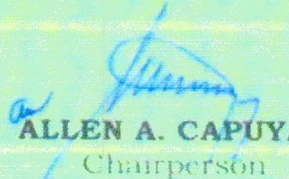
Certified:


ROBERTO L. ALMONTE, CESO III
Regional Director

Concurred:


HON. GEORGE M. LARGADO
Commissioner
Island Group and the Rest of Visayas

Confirmed:


ALLEN A. CAPUYAN
Chairperson



Republic of the Philippines
OFFICE OF THE SANGGUNIANG BAYAN
Municipality of Bongabong
Province of Oriental Mindoro



EXCERPTS FROM THE MINUTES OF THE THIRTY-SECOND (32ND) REGULAR SESSION OF THE 11TH SANGGUNIANG BAYAN OF BONGABONG, ORIENTAL MINDORO HELD ON MARCH 13, 2023 AT THE SANGGUNIANG BAYAN SESSION HALL, 2ND FLOOR, EXECUTIVE AND LEGISLATIVE BUILDING, POBLACION BONGABONG, ORIENTAL MINDORO

PRESENT:

Hon. RICHARD S. CANDELARIO

VICE-MAYOR
Presiding Officer

Hon. JAYSON M. BARCELONA

Member

Hon. NIÑO G. LIWANAG

Member

Hon. JOHN MICHAEL K. MALALUAN

Member

Hon. MAYNARD M. PANGANIBAN

Member

Hon. ALFONSO A. MONTALBO

Member

Hon. EVELYN B. ALEA

Member

Hon. LOVELY MAE A. ANULAO

S. K. Municipal Federation Vice-President

Hon. AZOR G. MAMENG

Liga ng mga Barangay President

Hon. MATIGON T. SULIGAN

Indigenous People Mandatory Representative

ON OFFICIAL BUSINESS:

Hon. VICTORIA BAES-PADULLO

Member

ABSENT:

Hon. DOLORES U. DE GALA

Member

X-----X

RESOLUTION No. 45

Series of 2023

RESOLUTION AUTHORIZING THE MUNICIPAL MAYOR, HON. ELEGIO A. MALALUAN, O.D., TO APPLY FOR THE ADDITIONAL/EXPANSION OF COVERAGE OF GRATUITOUS SPECIAL LAND USE PERMIT (GSUP) (FARM-TO-MARKET ROAD) UNDER THE DEPARTMENT OF AGRICULTURE – PHILIPPINE RURAL DEVELOPMENT PROJECT (DA-PRDP) SITUATED IN BARANGAY HAGAN, BONGABONG, ORIENTAL MINDORO

WHEREAS, the Municipal Mayor, Hon. Elegio A. Malaluan, O.D., in his letter dated February 28, 2023, requested to pass a resolution authorizing him to apply for the additional/expansion of coverage of GSUP (Farm-to-Market Road) under the DA-PRDP situated in Barangay Hagan, Bongabong, Oriental Mindoro;

WHEREAS, the request appears to be justified;

NOW THEREFORE, on motion of Hon. JOHN MICHAEL K. MALALUAN, seconded by Hon. NIÑO G. LIWANAG, be it resolved, as it is hereby resolved to authorize the Municipal Mayor, Hon. Elegio A. Malaluan, O.D., to apply for additional/expansion of coverage of Gratuitous Special Land Use Permit (Farm-to-Market Road) under the Department of Agriculture – Philippine Development Project situated in Barangay Hagan, Bongabong, Oriental Mindoro;

RESOLVED FURTHER, to furnish the Municipal Mayor a copy of this resolution for his information and appropriate action;

UNANIMOUSLY APPROVED.

Certified true:


REMUEL N. ISLER

Temporary Secretary to the Sanggunian

Certified to have been passed:


Hon. RICHARD S. CANDELARIO
Vice-Mayor and Presiding Officer



Republic of the Philippines
OFFICE OF THE SANGGUNIANG BAYAN
Municipality of Bongabong
Province of Oriental Mindoro



EXCERPTS FROM THE MINUTES OF THE THIRTY-SECOND (32ND) REGULAR SESSION OF THE 11TH SANGGUNIANG BAYAN OF BONGABONG, ORIENTAL MINDORO HELD ON MARCH 13, 2023 AT THE SANGGUNIANG BAYAN SESSION HALL, 2ND FLOOR, EXECUTIVE AND LEGISLATIVE BUILDING, POBLACION BONGABONG, ORIENTAL MINDORO

PRESENT:

Hon. RICHARD S. CANDELARIO

VICE-MAYOR

Presiding Officer

Hon. JAYSON M. BARCELONA

Member

Hon. NIÑO G. LIWANAG

Member

Hon. JOHN MICHAEL K. MALALUAN

Member

Hon. MAYNARD M. PANGANIBAN

Member

Hon. ALFONSO A. MONTALBO

Member

Hon. EVELYN B. ALEA

Member

Hon. LOVELY MAE A. ANULAO

S. K. Municipal Federation Vice-President

Hon. AZOR G. MAMENG

Liga ng mga Barangay President

Hon. MATIGON T. SULIGAN

Indigenous People Mandatory Representative

ON OFFICIAL BUSINESS:

Hon. VICTORIA BAES-PADULLO

Member

ABSENT:

Hon. DOLORES U. DE GALA

Member

X-----X

RESOLUTION No. 46

Series of 2023

RESOLUTION INTERPOSING NO OBJECTION TO THE APPLICATION FOR THE ADDITIONAL/EXPANSION OF COVERAGE OF GRATUITOUS SPECIAL LAND USE PERMIT (GSUP) (FARM-TO-MARKET ROAD) UNDER THE DEPARTMENT OF AGRICULTURE – PHILIPPINE RURAL DEVELOPMENT PROJECT (DA-PRDP) SITUATED IN BARANGAY HAGAN, BONGABONG, ORIENTAL MINDORO

WHEREAS, the Municipal Mayor, Hon. Elegio A. Malaluan, O.D., in his letter dated February 28, 2023, requested to pass a resolution interposing no objection for the additional/expansion of coverage of GSUP (Farm-to-Market Road) under the DA-PRDP situated in Barangay Hagan, Bongabong, Oriental Mindoro;

WHEREAS, the said request was favorably granted by the Body;

WHEREAS, the additional/extension of coverage is beneficial to the project beneficiaries;

NOW THEREFORE, on motion of Hon. JOHN MICHAEL K. MALALUAN, seconded by Hon. NIÑO G. LIWANAG, be it resolved, as it is hereby resolved to interpose no objection for additional/expansion of coverage of Gratuitous Special Land Use Permit (Farm-to-Market Road) under the Department of Agriculture – Philippine Development Project situated in Barangay Hagan, Bongabong, Oriental Mindoro;

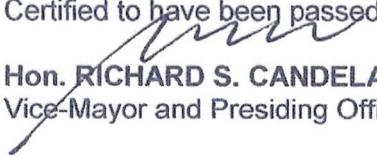
RESOLVED FURTHER, to furnish the Municipal Mayor a copy of this resolution for his information and appropriate action;

UNANIMOUSLY APPROVED.

Certified true:


REMUEL N. ISLER
Temporary Secretary to the Sanggunian

Certified to have been passed:


Hon. RICHARD S. CANDELARIO
Vice-Mayor and Presiding Officer

INDICATIVE MANAGEMENT PLAN

I. INTRODUCTION

MUNICIPAL PROFILE

a. Brief History

THE HISTORY OF BONGABONG

Mythical Origin

Several articles were written on the history of Bongabong but not one could be officially considered. The closest assumption, however, is that the name Bongabong was derived from the word "Binago" meaning a big and turbulent river, attributed to the first settlers known as the Mangyans. This turbulent river is now called the "**Bongabong River**".

It is believed that the first set of government was established at the original town site in Sitio Anilao where the old church still stands. Due to frequent Moro raids, however, the settlement was later transferred to the southern bank of Bongabong River, opposite its present site.

The town was given several names such as "Binago" and "Sukol" named after the river leading to Anilao, which was said to be a barrio with historical significance. During the short-lived revolutionary administration, the town's name was changed to "Sumilang" by Col. Juan Naguit, a close friend of Gen. Emilio Aguinaldo. On 7 December 1927, it was officially recognized as the town of Bongabong through Legislative Bill No. 3415 of the colonial Philippine Commission.

Bongabong and the American Era

During the American Era, the town was attached to Pinamalayan as a barrio due to its poor financial condition, which could not maintain a local government. It was not until 1920 that this town became a separate municipality. With the opening of the national highway in 1937, Bongabong progressed so rapidly. The settlers rushed in to seek land and work. And because of the abundance of undeveloped and uncultivated lands, many settlers were able to acquire larger areas, which convinced them to settle permanently in the area.

The town's progress may be attributed to its vast agricultural land and forest resources, which are the main sources of the means of livelihood of the people. The town's 36 barangays are distributed



over a vast sprawling agricultural area. Coconut plantations cover the coastal plains. The opening of several sawmills in 1945 along with an increasing number of commercial establishments also contributed to this progress. The income of Bongabong then began to soar. Minor products abound in the area which includes almaciga and rattan. Many fishermen enjoy lucrative income from the excellent fishing grounds along the coast of the municipality.


THE FOUNDING

The first Municipality in the Island of Mindoro who fought and expressed it's grievances against the cruelty and tyranny of the Spaniards against the Filipinos & the Municipality created & recognized under Legislative Act. No. 3415 on December 7, 1927.

b. Geographical Location



Bongabong is one of the third largest municipalities in the province of Oriental Mindoro with a total land area of 49,820 hectares or 498.2 square kilometers. It is a first class municipality composed of 36 barangays, five of which are considered urban barangays while the rest (31) are rural barangays. It is about 102 kilometers from the capital town of Calapan and is geographically situated at 12°43'40" latitude North and 121°27'50" longitude East. It is bounded on the north by the Municipality of Bansud, on the South by the Municipality of Roxas and Mansalay, on the East by Tablas Strait and on the West by the Municipality of Sablayan, Occidental Mindoro.


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Based on records, the total land area of the Municipality of Bongabong is forty-nine thousand eight hundred twenty hectares (49,820 has.) or 498.20 square kilometers. Due to lacking of information gathered from other agencies, only three barangays had an available data taken from the Land Management Bureau (LMB) namely; Hagan, Morente and Tawas. Other barangay political boundaries were taken from the map of the Municipal Assessor and consultation with the barangay officials during FLUP workshop on June 6, 2017 at Prisville Triangle Resort, Bagong Bayan II, Bongabong, Oriental Mindoro.

The estimated more than 9,000 hectares of land are accounted with political boundary disputes with the municipality of Bansud & Roxas in the Province of Oriental Mindoro and municipality of Sablayan, Occidental Mindoro.

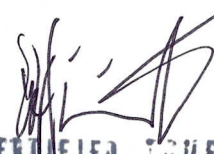
Hagan is an upland and Mountainous Barangay of Bongabong. It is bounded on the north by the Municipality of Bansud, on the South by the Barangay Formon, on the East by Barangay Tawas and on the west by the Barangay Lisap. Almost 1970 of Indigenous People mainly Tribes of Buhid and Bangon in the Municipality is residing in the sitios of Bokbok, Siplon, Mactung, Abuyao, Mungos 1 and 2, Lalid, Linyama, Balogo, Iplas, Ginyang, Yabong, Talapa, Langwan and Siplon.

c. Geographical Boundaries

The Geographic Boudaries of the road influence area are shown in the table below:

Table 1: Geographic Boundaries of Road Influence Area

Sitio	North	South	East	West
Centro	Sitio Cantina	Barangay Mapang	Sitio Tabag and Talacot	Sitio Balahid
Cantina	Sitio Gumatos	Sitio Balahid and Sitio Centro	Sitio Talacot and Sitio Bulwang	Barangay Lisap
Gumatos	Sitaio Panluan	Sitio Cantina	Sitio Hamindang and Sitio Bulwang	Barangay Lisap
Panluan	Sitio Apuyao	Sitio Gumatos	Sition Hamindang	Bongabong River and Barangay Lisap
Apuyao	Sitio Mungos	Sitio Mactung and Sitio Panluan	Sitio Sipatag	Bongabong River
Mungos	Sitio Balite	Sitio Apuyao	Barangay Tawas	Bongabong River
Balite	Sitio Lalid	Sitio Mungos	Barangay Tawas	Bongabong River


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d. Estimation of the Road Influence Area (RIA)

The Road Influence Area covers most of the Sitios in Barangay Hagan with a total area of 2,316 hectares. Since there is an existing river near the area, the measurement of RIA has been stretched up to the northern parts of the Barangay and has been extended up to Sitio Linyama. In the northern part of the barangay wherein IPs were the majority of the residents can benefit from the project.

Considering the land area covered by the RIA from Sitio Centro to Sitio Balete, there is a total land area of 2,316 ha, 13.17 hectares for Built-up area, and 685.2 ha for total agricultural area.

Table 2. Land Area Covered by the Road Influence Area

Sitio	Total land area (has)	Built-up area (has)	Total Agricultural area (has)
Centro-Balete	2,316 has	13.17 has	685.2 has

Table 3. Crops Planted in the Road Influence Area

Sitio	Crops Planted (has)								TOTAL Area
	Banana	Bondo	Ginger	Coconut	Lanzones	Rambutan	Corn	Rice	
Centro - Balete	415.04	102.64	35.58	88.52	10.05	6.95	11.90	52.90	598.97

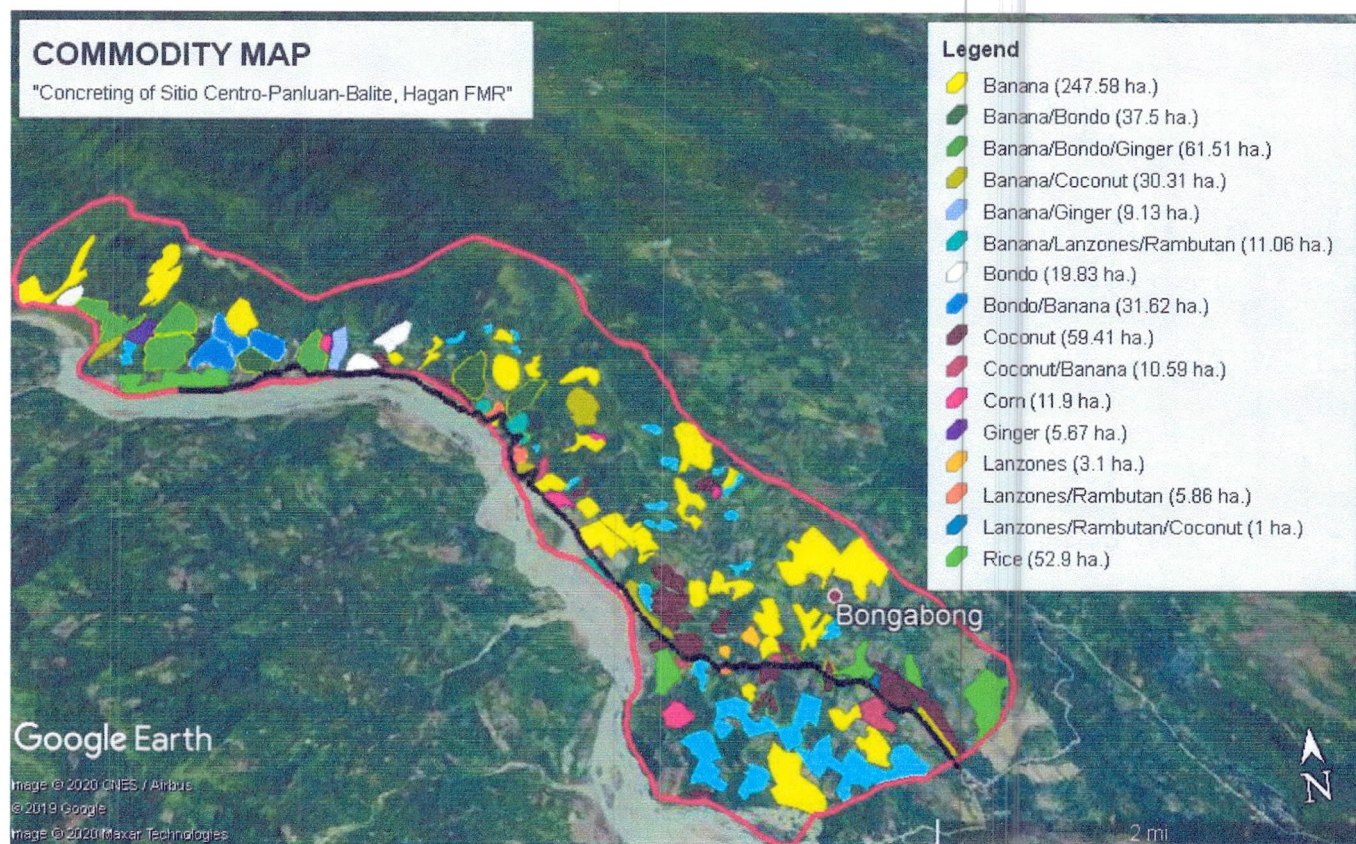


Figure 1 Commodity Map of Sitio Centro-Panluan-Balete FMR

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e. Land Area

The town of Bongabong is at present one of the most progressive and fast growing municipalities in the province of Oriental Mindoro with a total land area of 49, 820 hectares and stretching far and wide crossing the vast agricultural lands from the boundary of Barangay Sumagui, Municipality of Bansud, Oriental Mindoro starting at "Dalapian Creek" to Bato crisscrossing two long rivers up to the interior of the so-called "Bongabong River" ending at Barangay Morente and Batangan at the South before Roxas town.

5- Urban Barangays

1. Bagong Bayan I
2. Bagong Bayan II
3. Ipil
4. Aplaya
5. Poblacion

Watersheds

- | | |
|---------------|--------------|
| 1. Hagan | 9. Poblacion |
| 2. Lisap | 10. Mapang |
| 3. Morente | 11. Hagupit |
| 4. San Jose | 12. Luna |
| 5. Kaligtasan | 13. Formon |
| 6. Orconuma | 14. Sigange |
| 7. San Isidro | 15. Malitbog |
| 8. Sagana | |

Coastal Barangay

1. Labasan
2. Aplaya
3. Poblacion
4. Anilao
5. Masaguisi
6. Cawayan
7. Camantigue
8. Dayhagan

Mountainous Barangay

- | | |
|-------------|--------------|
| 1. Bukal | 8. Carmundo |
| 2. Formon | 9. Tawas |
| 3. Hagan | 10. Sta.Cruz |
| 4. Lisap | 11. Libertad |
| 5. Batangan | 12. Mapang |
| 6. Morente | 13. Hagupit |
| 7. Sigange | |


Agrarian Reform Community Barangay

1. Anilao
2. Orconuma
3. Mina de Oro
4. Sagana
5. San Isidro


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Table 4. Total Land Area per Barangay

Barangay	Area (hectares)	% of Total
Urban		
Poblacion	50	0.10
Aplaya	26	0.05
Bagong Bayan I	70	0.14
Bagong Bayan II	40	0.08
Ipil	61	0.12
Rural		
Anilao	2,108	4.23
Batangan	2,644	5.31
Bukal	932	1.87
Camantigue	449	0.90
Carmundo	1,823	3.66
Cawayan	1,161	2.33
Dayhagan	961	1.93
Formon	609	1.22
Hagan	1,785	3.58
Hagupit	1,231	2.47
Kaligtasan	2,291	4.60
Labasan	1,774	3.56
Labonan	870	1.75
Libertad	1,846	3.71
Lisap	4,405	8.84
Luna	1,499	3.01
Malitbog	2,035	4.08
Mapang	852	1.71
Masaguisi	1,350	2.71
Mina de Oro	727	1.46
Morente	2,644	5.31
Ogbot	464	0.93
Orconuma	1,270	2.55
Polusahi	422	0.85
Sagana	2,410	4.84
San Isidro	1,386	2.78
San Jose	1,226	2.46
San Juan	1,510	3.03
Sta. Cruz	1,993	4.00
Sigange	1,370	2.75
Tawas	3,526	7.08
Total	49,820	100%


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f. Land Classification

As shown in Figure 2, the municipality has sizable area of alienable and disposable lands. Of its total land area of 49,820.00 hectares, 20,924.00 hectares, or 42.00%, belong to the category of alienable and disposable lands while 28,896.00 hectares are forestlands.

In this map, it is graphically shown that barangays Lisap and Batangan are within the forestland, while Hagan, Morente, Tawas, Formon, Mapang and Carmundo have some portions also falling under the forestland category. On the other hand, the low-lying barangays of Sagana and Dayhagan are also harboring some forestland areas.

Of all the 36 barangays of Bongabong, barangays Batangan, Lisap, Hagan and Tawas embraced the largest forestland areas.

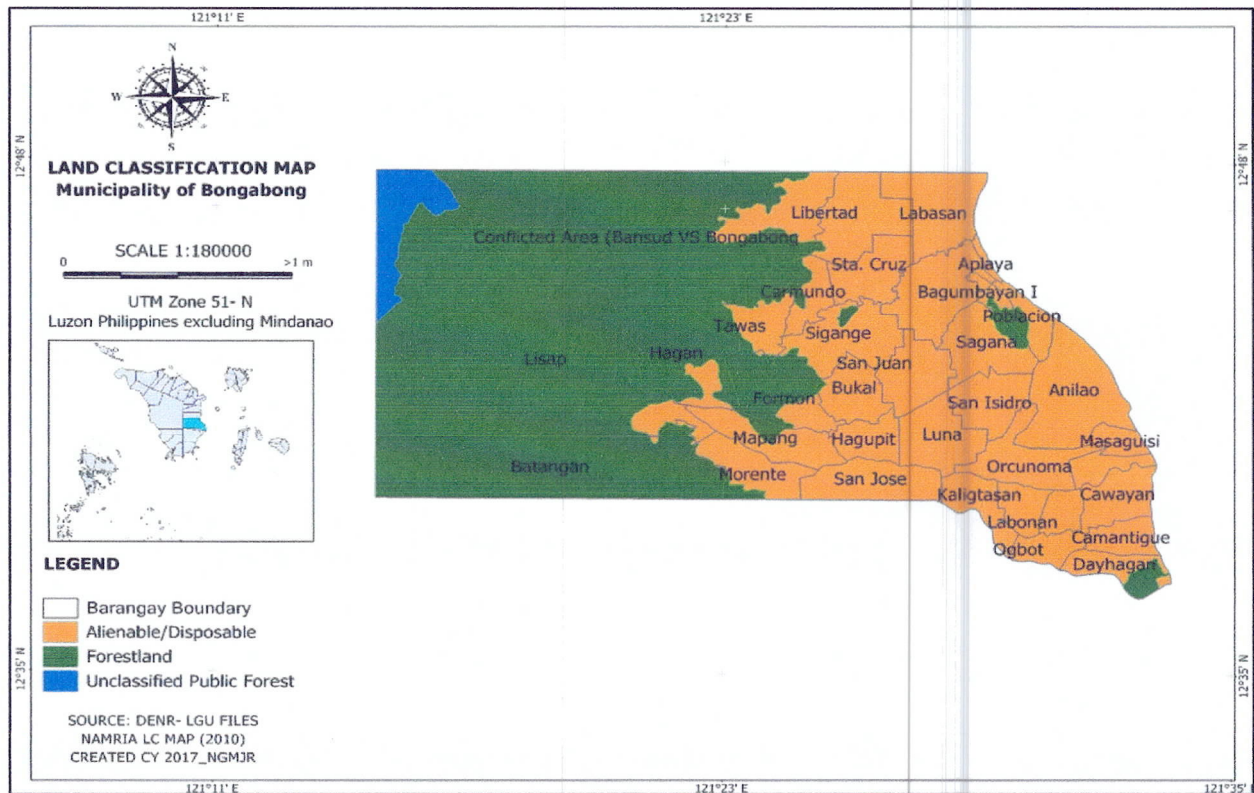


Figure 2: Land Classification Map.

g. Topography (Slope and Elevation)

The western fringes of Bongabong, especially along the areas bordering the Occidental side, are extremely mountainous. Nonetheless, the municipality is endowed with considerable areas of flat lands, undulating as well as hilly areas. Figure 2 shows the topographic attributes of the municipality.

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g.1 Slope

The municipality has six (6) slope categories; of these, about 33.00% of its land area falls within 0-3% slope. As shown by the slope map, majority of the barangays are situated on level to gently rolling terrains. These are also the barangays with the most number of inhabitants. Table 2.1 shows the various slope categories and the barangays falling under each category. From the table, it can be gleaned that the biggest part of the municipality falls under the category of steep to very steep slopes. These are the most fragile areas in terms of geologic hazards (i.e. landslides) and must be properly attended to.

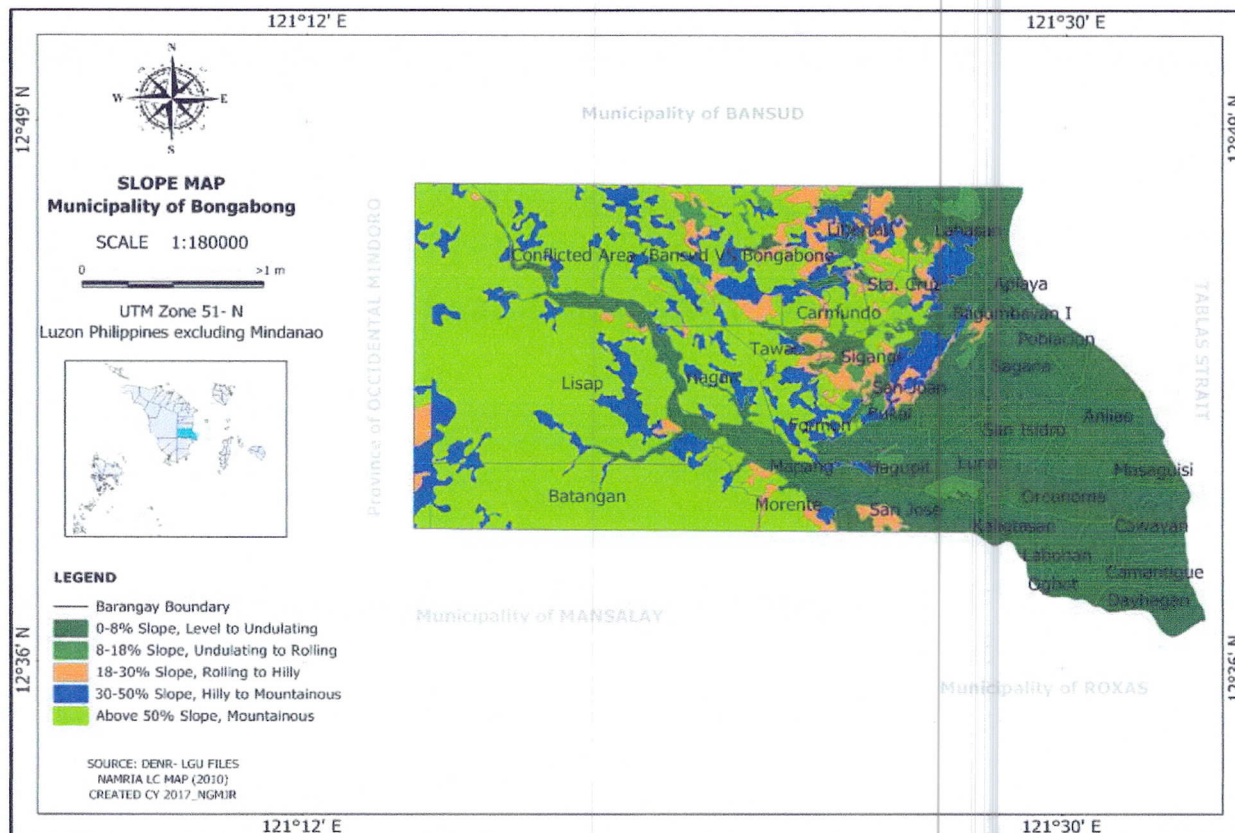



Figure 2.1 Slope Map

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Table 5. Slope Categories and the Barangays Falling Under Each Category.

Slope Category	Barangay	Combined Area (Hectares)	% Relative to Total Area
0-3% (Level to Nearly Level)	Anilao Aplaya Camantigue Bagong Bayan I Bagong Bayan II Cawayan Dayhagan Labasan Malitbog Masaguisi Ogbot Sagana San Isidro Hagupit Ipil Kaligtasan Luna Labonan Mapang Mina de Oro Orcunoma Poblacion Polusahi San Juan	16,442.00	33.00%
3-8% (Gently Sloping to Undulating)	Bukal Formon Hagupit Labasan Libertad Malitbog San Jose San Juan Sigange	2,491.00	5.00%
8-18% (Undulating to Rolling)	Formon Hagan Lisap Morente Sta. Cruz Sigange Carmundo Tawas	1,495.00	3.00%


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Slope Category	Barangay	Combined Area (Hectares)	% Relative to Total Area
18-30% (Rolling to Moderately Steep)	Formon Batangan Bukal Hagan Lisap Morente Sta. Cruz Tawas	2,491.00	5.00%
30-50% (Steep)	Batangan Hagan Lisap Tawas	5,480.00	11.00%
Above 50% (Very Steep)	Batangan Hagan Lisap Tawas	21,422.00	43.00%

Source: Bureau of Soils and Water Management

g.2 Elevation

The highest point within the municipality has an elevation of 1,295.00 m ASL. This point is in the vicinity of Mt. Wood bordering the municipality of Sablayan, Occidental Mindoro.

Although the western fringes of Bongabong are basically mountainous areas, as mentioned, flat and gently sloping terrain occupy about 38% of the total land area. These flat and gently sloping areas have elevation ranges of from sea level to 150.00 m ASL. Interestingly, these are the areas with optimum conditions for economic development either in terms of agriculture, commerce and industry, and other productive activities. However, these are also the areas that are prone to the natural hazards of flooding.


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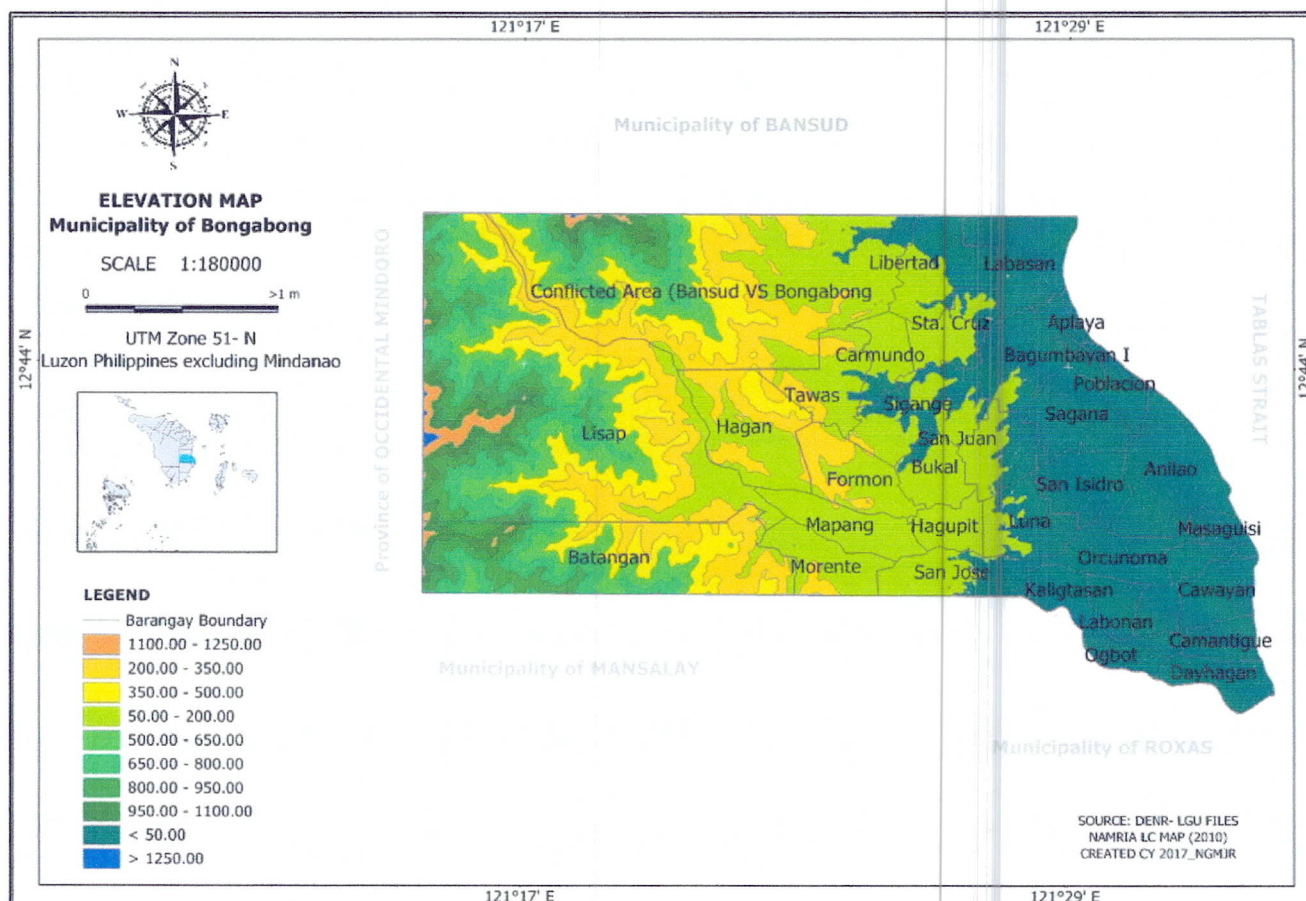


Figure 2.2 Elevation Map

Table 6. Area Covered By Various Elevation Ranges

Elevation (Meters Above Sea Level)	Area (Hectares)	% of Total Land Area
< 50.00	15,388.05	30.89%
50.00 - 200.00	12,172.70	24.43%
200.00 - 350.00	6,319.73	12.69%
350.00 - 500.00	4,749.26	9.53%
500.00 - 650.00	3,969.37	7.97%
650.00 - 800.00	3,322.78	6.67%
800.00 - 950.00	2,369.81	4.76%
950.00 - 1100.00	1,195.52	2.40%
1100.00 - 1250.00	313.23	0.63%
> 1250.00	19.56	0.04%
TOTAL	49,820.00	100.00%

As shown in Figure 2.2, the extent of the areas with elevation less than 50.00 meters above sea level (ASL) are considerably large. In fact as shown in Table 6, these areas comprise about 31.00% of the whole land area of Bongabong. This is followed by elevation of from 50.00 to 200.00 meters ASL, comprising about 24.00% of the entire area; combined together, these areas constitute 55.00% of the whole municipality. These figures are emphasized owing to the fact that these are the ranges of elevation where productive activities, especially agricultural production, can be maximized.

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Recent Land-Use and Vegetative Cover

As shown in Figure 2.2 and Table 2.3, more than half of the total land area of Bongabong is devoted to agriculture, specifically, perennial and annual crop production. Combining the areas devoted to perennial and annual crops, this particular productive endeavor constitutes 28,087.00 hectares or 56.00% of its total land area. These figures are particularly emphasized in order to highlight the very big potential that the municipality has in terms of economic development owing to the very favorable natural attributes that are inherent to the municipality. On top of this, the areas that are producing fishery products are also substantial at 3,567.00 hectares.

Relative to the positive natural attributes that the municipality possesses, the upland and forest areas of Bongabong are also complementing the bio-physical and hydrological requirements of the productive activities in the low-lands. As will be discussed more lengthily in the succeeding sections of this report, Bongabong has also a big potential for hydro-power and irrigation. The water requirements for hydro-power and irrigation are secured by the relatively healthy condition of its forest. The forest areas of the municipality have four (4) distinct vegetation types.

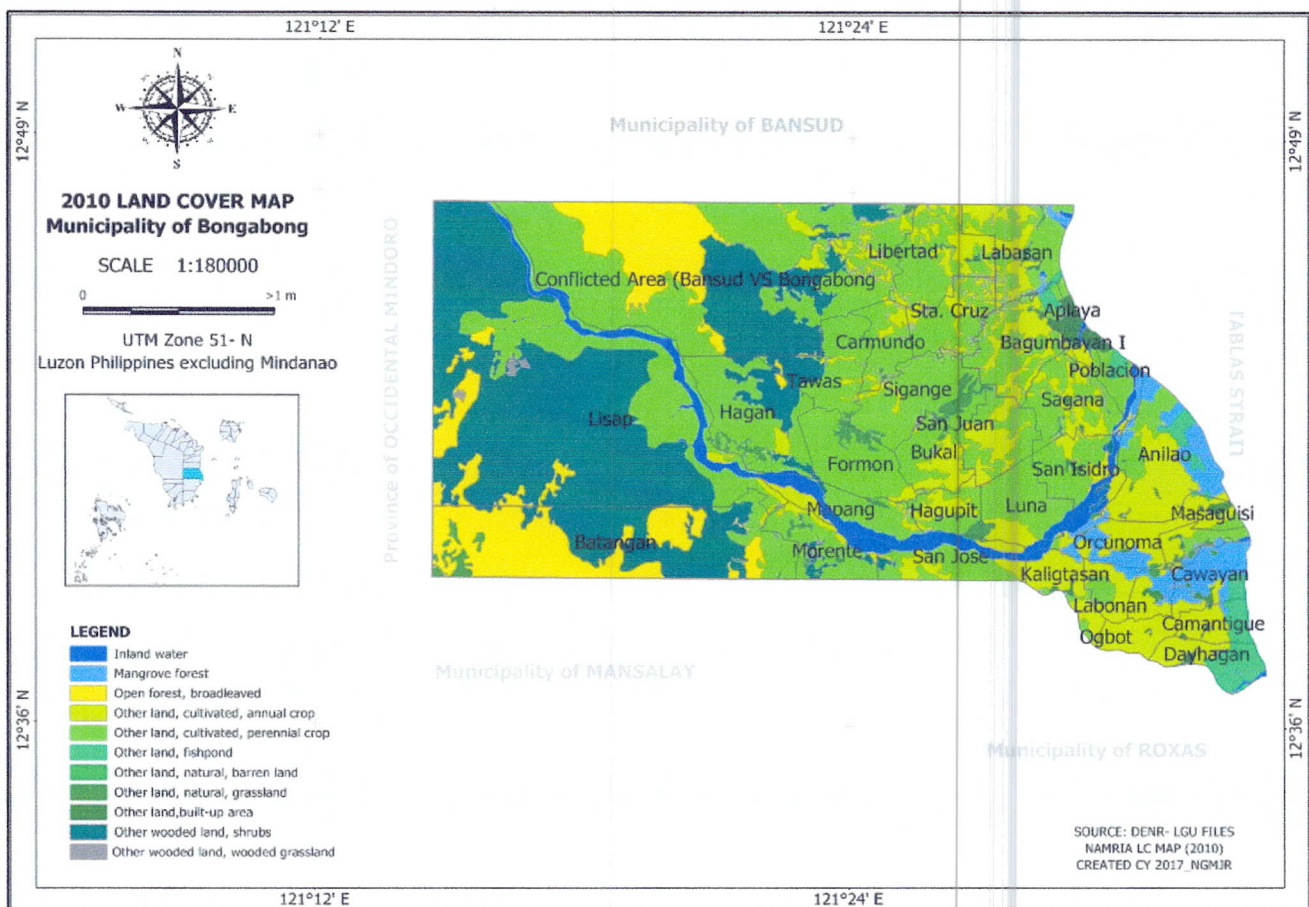



Figure 2.3 Land Cover Map

Table 7. Extent of Various Land Cover Categories.

Land Cover Categories	Area	%
Inland Water	1,724.51	3.46%
Mangrove Forest	1,238.14	2.49%
Open Forest(Broadleaved)	5,165.75	10.37%
Cultivated Lands(Annual crop)	8,652.49	17.37%
Cultivated Lands(Perennial crop)	19,434.17	39.01%
Fishponds	604.05	1.21%
Natural Barren Land	151.80	0.30%
Grassland	724.29	1.45%
Built-up Areas	554.41	1.11%
Other Wooded Lands(Shrubs)	11,524.86	23.13%
Other Wooded Lands(Wooded grasslands)	45.53	0.09%
TOTAL	49,820.00	100.00%


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Land-Use Categories	Area(Hectares)	%
1. Urban Land-Use		
- Residential	462.00	0.920
- Commercial	18.00	0.035
- Industrial	57.00	0.110
- Tourism	10.00	0.020
- Institutional	50.00	0.100
- Parks, Playgrounds and Recreational Areas	2.00	0.004
2. Agriculture		
-Prime	4,919.00	9.874
- Marginal	13,444.00	26.986
3. Forest		
- NIPAS	7,987.00	16.031
- Non-NIPAS	11,113.00	22.310
4. Grassland/Pasture	9,670.00	9.409
5. Agro-Industrial	3.00	0.006
6. Other Uses		
- Cemeteries	11.00	0.022
- Infrastructure/Utilities	423.00	0.848
- Categorized Waste Disposal Facility	2.00	0.004
7. Beaches, Estuarine and Swamplands		
- Resorts and Tourism/Recreation Areas	2.00	0.003
- Nipa Swamps	53.00	0.107
- Mangrove Forest	335.00	0.672
- Aquaculture	462.00	0.927
8. Quarry sites	797.00	1.600
Total	49,820.00	100.00

Source: Bongabong CLUP


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II. OBJECTIVES

SUBPROJECT OBJECTIVES

The proposed subproject primarily aimed to uplift the livelihood of the farmers and the community, especially the Indigenous People living in the upper part of the influence area by providing a safe, and quality road that can provide convenient transportation of agricultural products from the area to the markets.

Specific Objectives:

Upon the completion of the project, in 20 years the following are the specific objectives:

- Concreted and maintained the 9.98 kilometer road with box culverts, slope protection and drainage canal, improved its condition and provide a safe, convenient and cost-effective road thus minimizing transport operation and maintenance;
- Increased mobility and reduced travel time by 50% (from 60 minutes to 30 minutes);
- Increase of volume of vehicles operating in the area by 13% (from 285 to 321 vehicles operating thus reducing transportation cost due to transport competition;
- Reduction of 34% from in Post-Harvest Losses where;

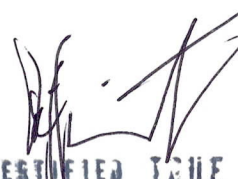
Commodity	Estimated losses (%)		
	Without the Project	With the Project	Reduction
Banana	9 kg	4.5 kg	9%
Coconut	3 kg	1 kg	4%
Corn	2 kg	1 kg	2%
Rice	3.5 kg	1.1 kg	9%
Lanzones	9 kg	4.5 kg	4.5%
Ginger	2 kg	1 kg	2%
Bondo	2 kg	1 kg	2%
Rambutan	2 kg	1 kg	2%

- Expanded production area by 82.6 hectares of coconut;
- Reduce input hauling cost by 62.5% (from 80 pesos to 50 pesos)

III. IMPLEMENTATION SCHEDULE OF THE SUB-PROJECT

The implementation period is estimated at about 531 calendar days inclusive of 148 unworkable days.

Total Net Length of Road =	9.98 kilometers
Type of Road =	Concrete Road
Width of the Concrete Road=	5.00 meters
Width of the Road Shoulder=	1.50 meters
Total Width of the Road=	10.00 meters
PCCP Thickness=	200.00 millimeters
Reinforce Concrete Pipe Culvert=	280.00 meters
Reinforce Concrete Box Culvert=	3 units
Reinforce Concrete Deck Girder=	30.00 meters


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Project Implementation Schedule

Project Title: CONCRETING OF CENTRO-PANLUAN-BALITE, HAGAN FMR WITH BRIDGE

Location: HAGAN, BONGABONG, ORIENTAL MINDORO

Sn	Activity	Timelines		
		Duration	Start	Finish
1.00	PROCUREMENT PROCESS			
1.01	Bid Preparation	7 days	1 st day	7 th day
1.02	Pre-Procurement Conference	1 day	8 th day	8 th day
1.03	Ad/ Posting ITB	20 days	9 th day	28 th day
1.04	Pre-bid Conference	1 day	21 st day	21 st day
1.05	Submission and Receipts of Bids			
1.06	Opening of Bids	1 day	29 th day	29 th day
1.07	Bid Evaluation	3 days	30 th day	32 nd day
1.08	Post Qualification	5 days	33 rd day	37 th day
1.09	Issuance of BAC Resolution w/ BER	3 days	38 th day	40 th day
1.10	Issuance of Notice of Award	7 days	41 st day	47 th day
1.11	Contract Signing	3 days	48 th day	50 th day
1.12	Issuance of Notice to Proceed	1 day	51 st day	51 st day
2.00	CONSTRUCTION/ IMPLEMENTATION (Indicative Duration based on approved POW)			
2.01	Mobilization	1 day	52 nd day	52 nd day
2.02	Implementation	531 days	53 rd day	583 th day
2.03	Pre-Final Inspection/ Punch listing		578 th day	578 th day
2.04	Final Inspection		590 th day	590 th day
2.04	Acceptance		595 th day	595 th day

Note: 1st day starts after the Issuance of No Objection from RPAB


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IV. TECHNICAL ASPECTS

a. Project Activity

The propose site is an existing road, used as public access long time ago. The land classification of Barangay Hagan is Forest Land. The proposal has a length of 9.98 kilometer and a width of 10 meters. The station 0+000 is located at the Sitio Centro, Barangay Hagan while the end is located at Sitio Balete, Barangay Hagan. Additionally, for the purpose of addressing natural hazards that may occur, the project design includes some mitigating measures such as riprap and vegetation which requires additional 5 meters to both sides with a total of 10 meters at the area of forest land having an approximate length of 2,061 meters.

The figure below illustrates the site of the proposed Farm to Market Road.

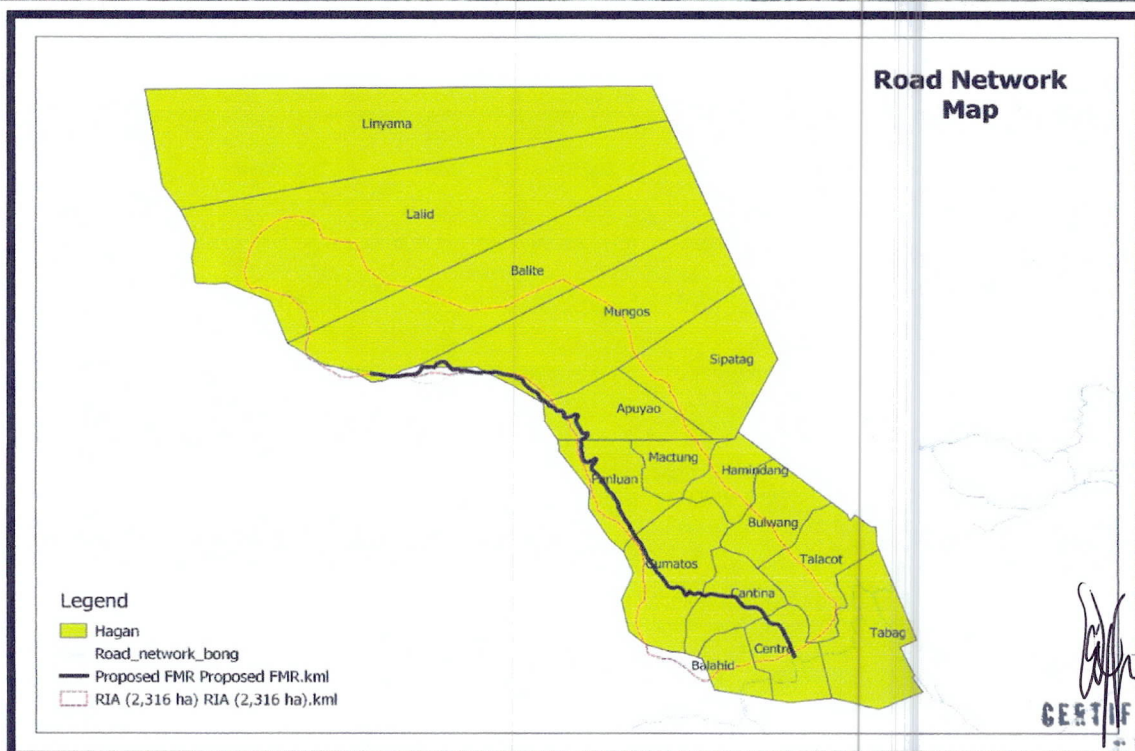
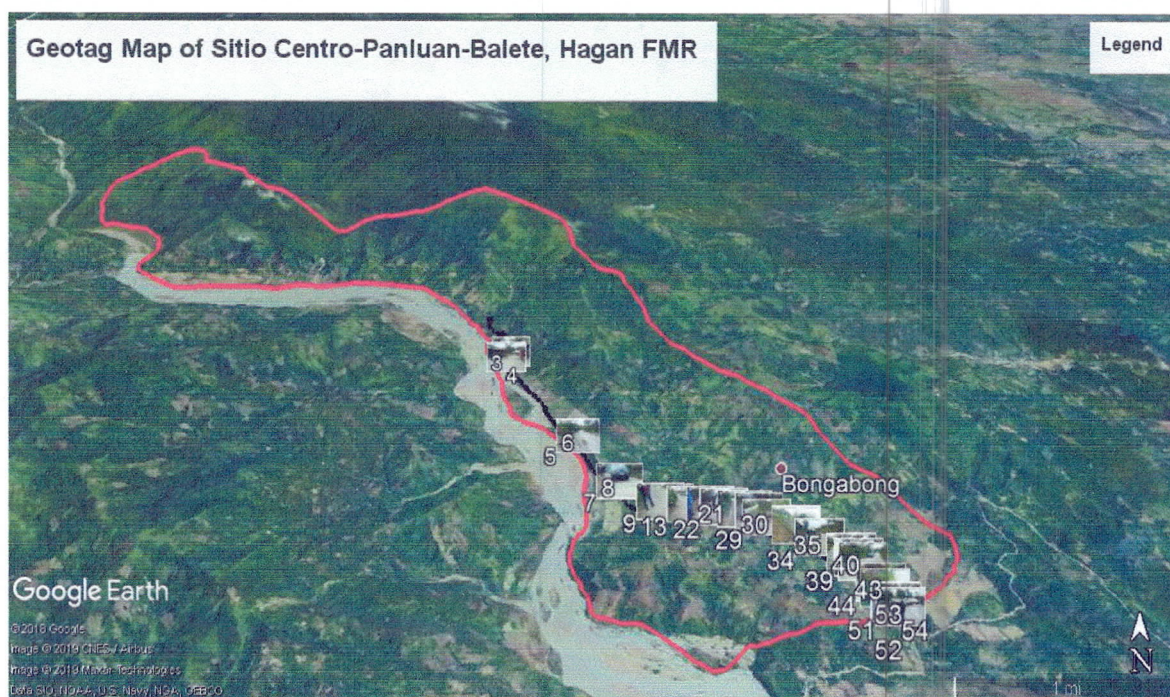
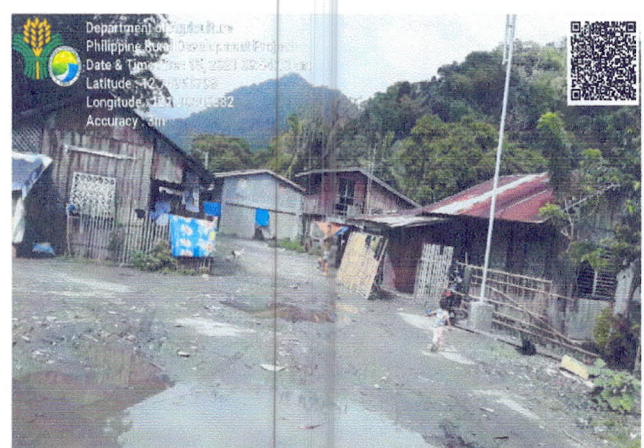
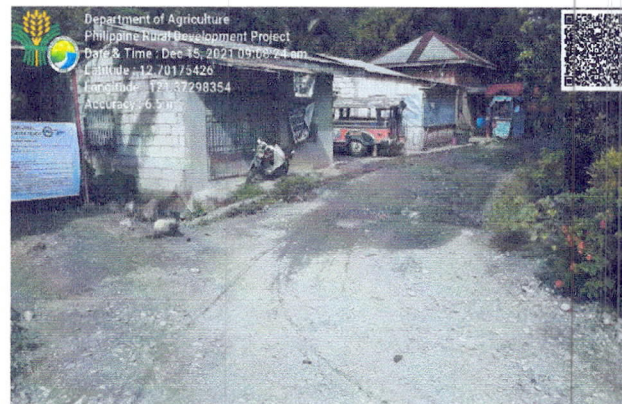


Figure 3. Geotagged Photos of Proposed FMR Project



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Current Road Network in the Project Influence Area Vis-à-vis Accessibility of the Road Condition to Market Centers/Trading Points

The current road is an earth road stretched in the mountainous area of most of the sitios of the barangay. The existing 9.9 kilometer road serves as the main and only road when entering the barangay which ends at Sitio Balite. Presently, there is an existing 1.7-kilometer concrete road in the area where some part of the road are still in good condition while some are damaged due to poor maintenance. Farmers built temporary bridge to pass during the heavy flow of Bongabong River in Sitio Mungos.

The start of the project or station 0 + 00 will be at Sitio Centro and will end in the interior of Sitio Balite. The streams of Bongabong river crosses the road at some part of Sitio Mungos where and made it hardly passable by vehicles during rainy season. The entire stretch of the road yet very rough and has very bad condition can be passed by any form of vehicle four such as trucks, jeepneys, motorcycles, and tricycles.

Agricultural products of the barangay are mostly brought and to their “*mini bagsakan*” located at Sitio Panluan and or markets in Manila. Due to high transportation cost, farmers in the innermost part of Sitio Balite opt to transport their products through “*balsa*” by through the Bongabong River. From then, they would transport their products either by selling them to dealers and will brought it to markets of Manila.

The proposed road will make the transfer of products to the market easier, affordable with lower cost. Hence, farmers are encouraged to further develop their farm areas to produce more agricultural crops for the increasing market demand.

Based on actual validation, the road influence area or RIA is mostly planted with banana, coconut, corn, ginger, bondo, rambutan, lanzones, and upland and lowland rice. There are houses found in the interior, most of them were made from light materials to strong materials. A number of people who continue to improve and maintain their farms walk almost ten (10) kilometers; they bring their harvested products down to the barrio by just lifting their sacks of agricultural produce. There are also farmers who use “*balsa*” in bringing their products to Sitio Panluan.

Demand Side

Sitio Centro – Balite has a total agricultural area of 685.2 hectares suitable to the production of banana, coconut, ginger, bondo, rambutan, lanzones, corn and rice. These areas are producing approximately 198,000 MT of coconut per year. Livestock and poultry products are also produced in these areas which were delivered to households or to their “*mini bagsakan*”. All of the agricultural produce are moved and transported to the market centers in Manila. Thus, the need for upgrading and concreting the 11 kilometer road to reduce fare and hauling cost and increase mobility of goods and services in the area is strongly desired.

The improved road network after the project is shown in Table 8 and it is illustrated in Figure 4, Map of Desired Road Network of four barangays.

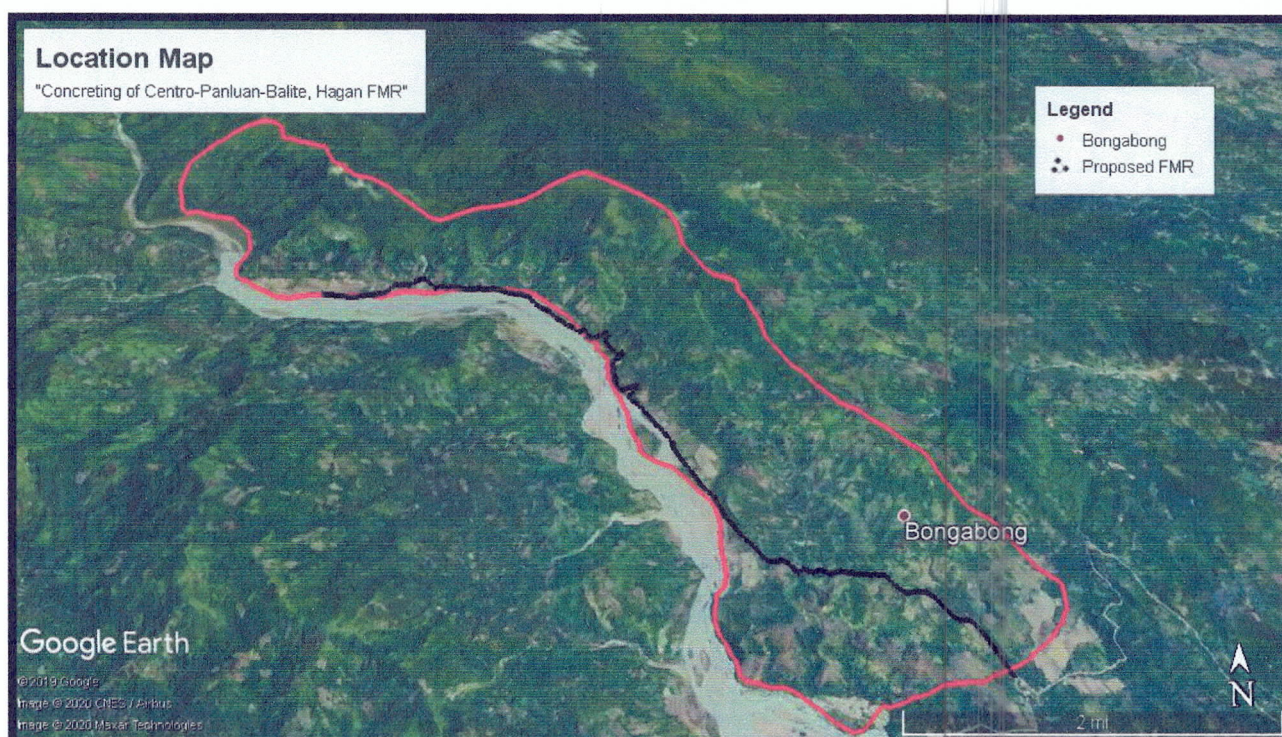


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Table 8. Desired Road Network (with project)

Road Classification	Road Type (km)						Total	
	Gravel		Earth Road		Concrete			
	Passable	Not Passable	Passable	Not Passable	Passable	Not Passable	Passable	Not Passable
Sitio Centro – Balite	9.3	-	-	-	1.7	-	11	-

Figure 4. DESIRED ROAD NETWORK MAP



Desired Road Network Condition in the Project Influence Area Vis-à-vis Accessibility of the Road to Market Centers/Trading Points

The proposed 9.98 km road from Sitio Centro up to Sitio Balete, Barangay Hagan will not only benefit the community in the said sitios but also the nearby sitios in trading their products to Bongabong Public Market and different local markets. It will also be their advantage in easier way of delivering products and to use modern technology to enhance their productivity.

Availability of Public Transport

At the present time, the existing road is the only road used when entering most of the sitios of the barangay. There were number of motorcycles owned by the residents in Sitio Centro and Sitio Panluan that provide riding services to passengers up to 7.5 kilometers. Most commuters prefer to pay riding services even at a high cost regardless of the condition of the road during rainy and dry seasons. According to one of the motorcycle drivers, the normal fare is Php 60.00 per head from Sitio Centro to Sitio Panluan. The said fare may vary during rainy seasons.

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Traffic Count Survey was conducted by one of the Barangay Officials from 6:00 o'clock in the morning until 6:00 o'clock in the afternoon at the beginning of the road. It was done in three days, Friday, Saturday which is also their market day and Sunday. On September 13, 2019, Friday 249 vehicles entered and came out of the road. While on September 14, 2019, Saturday which is their market day 290 vehicles came in and out of the road. And on September 15, 2019, Sunday, a total of 315 vehicles passed in and out of the barangay road. The average traffic count volume is 285.

Based from the Traffic Count Report, most of the road users were motorcycle riders and drivers, followed by tricycles and jeepneys. This shows that the once the road is improved, normal fare will decrease and projection of traffic volume will increase.

DEMAND-SUPPLY ANALYSIS

The improvement of the road will provide commercial stability not only to the residents but especially farmers in the area. It will also increase their product and goods services and will lessen transportation costs. It will also boost farmers' productivity of different crops and good quality of products will be delivered to markets.

On the other hand, without the project, transporting of products out to the local market will continue to be a burden in terms of the quality of products to be delivered due to damages of the products during the transportation. Thus, improvement of the road is highly desired.


Estimation of the Road Influence Area (RIA)

The Road Influence Area covers most of the Sitios in Barangay Hagan with a total area of 2,316 hectares. Since there is an existing river near the area, the measurement of RIA has been stretched up to the northern parts of the Barangay and has been extended up to Sitio Linyama. In the northern part of the barangay wherein IPs were the majority of the residents can benefit from the project.

Considering the land area covered by the RIA from Sitio Centro to Sitio Balete, there is a total land area of 2,316 ha, 13.17 hectares for Built-up area, and 685.2 ha for total agricultural area.

Table 9. Land Area Covered by the Road Influence Area

Sitio	Total land area (has)	Built-up area (has)	Total Agricultural area (has)
Centro-Balete	2,316 has	13.17 has	685.2 has


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DEMOGRAPHY

Table 10. Population in Road Influence Area
Road Project: Sitio Centro-Panluan-Balite, Hagan Farm to Market Road

Sitio	Base Year (2017)	Projections		Labour Force	Labor Force Participatio n Rate (%)	Employment Rate (%)
		2020	2025			
Centro – Panluan-Balete	3,287	4,004	4,318	2,291. 99	59.89	

Source: Barangay AIP 2017

The number of the non-working age of 14 years old and below and 65 years old and over and dependency ratio per barangay are presented in Table 11.

Table 11
Dependency Ratio of Road Influence Area

Barangay	0-14 years old	65 and over	Dependency Ratio
Centro-Balete	1,420	101	66.39

Source: Barangay AIP 2017

Based from the table, the dependency ratio of Sitio Centro to Sitio Balite is 66.39% indicating that the barangay population belongs to the working age and the remaining percentage as

Major Economy and Land Use

The type of occupations in the influence areas are presented in table below

Table 12. Type of Occupations of Residents of the Road Influence Area

Occupation	Sitio Centro to Sitio Balite
Officials of Government, Government Employee	20
Professional Teachers	63
Farmers, Farm Laborers and Forestry Workers	90
Laborers and Skilled Workers	94

Source: Barangay AIP 2017

Based on the data above, most of the possible beneficiaries of the subproject were farmers and farm laborers who are engaged in farming and agricultural activities. There are also professional teachers serving in the public schools located at the area.


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On-Farm Data-Agricultural Area and Crops Planted, Livestock and Fisheries

Table 13. Agricultural Crops Produce in the Influence Area

Sitio	Crops Planted (hectares)								Total Area
	Banana	Bondo	Ginger	Coconut	Lanzones	Rambutan	Corn	Rice	
Sitio Centro – Balite	415.04	102.64	35.58	88.52	10.05	6.95	11.90	52.90	598.94

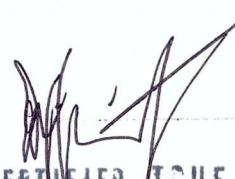
Source: Municipal Agriculture Office, Bongabong, Oriental Mindoro

Off-farm data-processing and Marketing Industry of Agri-fishery products

Since the project is located in the mountainous part of the barangay, most of the residents are engaged in farming and agricultural activities, and in buying and selling of agricultural products. Thus, they were not involved in marine and aquatic production activities even though many of the beneficiaries' house location is near the riverbanks.

Poverty Incidence

Based on the 2018 PSA data Poverty incidence in Oriental Mindoro is about 12.8 percent. It means there is one poor for every 8 persons. In the municipality of Bongabong where agriculture is the major source of income, 9,009 persons are poor. According to the data generated by CBMS 2018, Barangay Hagan has 285 households out of 660 or a proportion of 43.18 who experience poverty.


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Economic Analysis and Evaluation

Economic Benefits

Vehicle Operating Cost Savings

The VOC Savings is derived by multiplying the difference in VOCs for the surface type with and without project, the projected annual average daily traffic per vehicle type and the actual road length. Data provided is based on the actual traffic count survey conducted on September 13-15, 2019. Based on the Economic and Financial Analysis, a total of Php 1,271,042 will be the savings in the vehicle operating costs.

Savings in Hauling Farm Output

The savings in hauling farm output is derived by multiplying the total output of the farm delivered to market and the projected hauling cost. In the area, most farmers from the IP community sell their agricultural products to their “mini bagsakan” during market day. Since transportation cost is very high and

Savings in Hauling Farm Input

This was derived by computing the total mineral requirement per hectare multiplied by the savings incurred from hauling cost. With the implementation of the project, hauling cost will decrease and farmer will gain saving from hauling cost which they can divert to consume to their other supplies.

Savings in Travel Time of Commuters

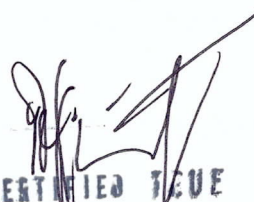
The savings in travel time of commuters is derived by multiplying the projected number of commuter from active population, the total time saved by these commuters and the average labor cost of the area. With the project, commuters will be able to save 50% of their traveling time.

Benefits from Newly Cultivated Agricultural Land

The benefit from newly cultivated agricultural land is derived by computing the difference of the projected output value of a newly opened area against its total production cost.

Savings in Reduction in Post-Harvest Losses

The savings in reduction in post – harvest losses is derived by multiplying the total volume of harvest marketed and the estimated post-harvest losses. With the project, post-harvest losses due to transport from production area to market centers will be eliminated since the number of vehicles and trips will be increased. Farmers will be able to bring their products to the market and avoid losses due to spoilage.


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The Project Influence Area

Table 14. Agricultural Production Areas to be served by the Project and Projected Production per Hectare

Sitio	Commodity	Area (ha)	Average Yield/ha.	No. of Turnover/per crops/yr.	Seed Requirements ha./yr.	Mineral Fertilizer Required	Annual Production	% of Production sold in market
Centro – Balete	Banana	415.04	2,000	12	500	0	480	95%
	Coconut	91.55	4,000	1	100	5	80	100%
	Bondo	102.64	1,200	1	1,000	0	24	95%
	Corn	11.90	3,000	2	1	12	120	100%
	Lanzones	10.05	2,500	1	2,500	10	50	95%
	Ginger	35.58	6,000	1	30	0	273	98%
	Rambutan	6.95	2,500	1	2,500	10	50	95%
	Rice	59.90	2,500	2	40	7	90	80%
	Total Area	598.94						

Source: *Municipal Agriculture Office, Bongabong, Oriental Mindoro*

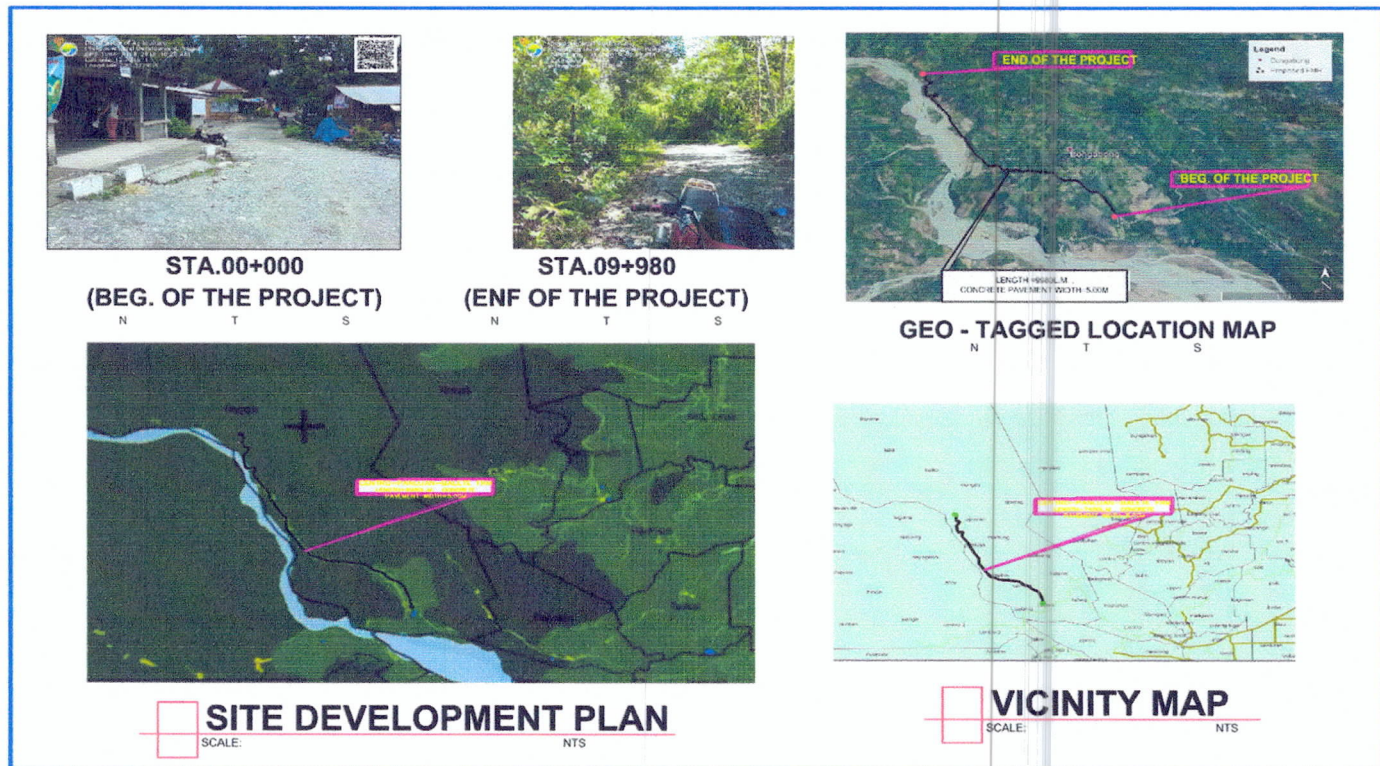
The existing 598.94 hectares within the project influence area are planted with crops such as banana, coconut, bondo, corn, lanzones, ginger, rambutan and rice. Among these crops, banana has the largest area planted with 415.04 hectares, followed by bondo with 102.64 hectares, and coconut with 91.55 hectares. These hectares were not solely planted by the aforementioned crops, except for rice and corn. There were 198.25 hectares utilized for intercropping. Most farmers and crop growers in the RIA intercropped coconut and banana, rambutan and lanzones, ginger and bondo or banana and bondo to fully maximize their lands.

Of the crops planted, rice applies 7 bags of fertilizer per hectare and needs 40 kgs of certified seeds and 2 bags of fertilizer for corn. Other crops such as bananas, coconut, lanzones, rambutan, bondo, and ginger does not apply mineral fertilizer. Farmers within the area are encouraged to practice organic farming.


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SITE DEVELOPMENT PLAN

The proposed Sub-Project will begin at Sitio Centro, Hagan with 9.98 kilometer and it will end at Sitio Balete, Hagan.



Operational Analysis

Institutional and organizational management is important in the implementation and sustainability of the project. This defines the responsibilities and accountabilities of the key players in the success of the project from pre, during and post-implementation phase to achieve the project goals and objectives.

MPMIU Organizational Structure

The Municipal Project Management Implementation Unit (MPMIU) and the Municipal Core Planning Team (MCPT) of LGU Bongabong, Oriental Mindoro was created by the virtue of Executive Order No. 5, Series of 2019 for the implementation of the Philippine Rural Development Project of the Department of Agriculture. The MPMIU is headed by the Municipal Mayor and the Municipal Agriculturist as the MPMIU Coordinator with members composed of the Municipal Planning Development Coordinator, Municipal Engineer, DTI Representative, Agricultural Technician, LEIPO Designate, LEO/PESO Manager/BPLO and Finance Committee composed of the Acting Municipal Accountant, Municipal Budget Officer, Municipal Treasurer and Municipal Assessor. The Project Component Planning Team (PCPT) is composed of competent personnel from different offices of the Municipality of Bongabong capable of handling and managing the particular component of the Philippine Rural Development Project (PRDP).

The PRDP-MPMIU is expected to perform the following functions:

1. Overall planning, budgeting, procurement and implementation of Subprojects at the Municipal Level.
2. Assist RPCO in prioritizing enterprises based on PCIP and the proponent in preparing the business plan;
3. Prepare Enterprise Investment Agreement (EIA) and Implementation Management Agreement (IMA) and execute MOA with proponent group;

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4. Develop partnership with agencies on business development services, research and extension.
5. Monitor and provide regular reports on PRDP implementation;
6. Develop capacity building proposal to strengthen capacities of MLGU in providing technology, information and enterprise development support to agri-fishery sector players.
7. Perform such other functions and discharge such other duties as the province and the Department of Agriculture may require from time to time in relation to the PRDP.
8. Tap the technical expertise, assistance and services of partner NGAs such as the Cooperative Development Authority (CDA), Department of Science and Technology (DOST), Department of Labor and Employment (DOLE), TESDA, Philippine Coconut Authority (PCA), Department of Agriculture (DA), BFAR, Agricultural Training Institute (ATI), Bureau of Soils and Water Management, Regional Agriculture and Fishery Council and its provincial counterpart, Mindoro State College of Agriculture and Technology (MINS CAT), the private organizations, the accredited CSO's Cooperatives, Associations, and Organizations in the Province.

PROJECT COMPONENT PLANNING TEAMS (PCPTs)

To ensure that the municipality is able to meet its deliverables, and to handle and manage a particular component of the PRDP, the Project Component Planning Teams (PCPTs) was organized as follows:

- 1.1 The I-PLAN Team. It shall be responsible for the formulation of the Municipal Commodity Investment Plan (MCIP). The team is headed by the Municipal Planning Coordinator (MPDC) with members from different offices.
- 1.2 The I-BUILD Team. The Team shall be responsible for the planning and implementation of the PRDP infrastructure components. The Municipal Engineer together with his staffs are in charged
- 1.3 The I-REAP Team. The Team shall be responsible for the planning and carrying out the Investment Plan in Rural Enterprises and Agri-Fisheries Productivity.
- 1.4 The I-SUPPORT Team. The Team shall be responsible for ascertaining sufficient allocation, timely disbursement and proper utilization of the local counterpart funds of the project.
- 1.5 The Social & Environmental Safeguard Team. The team shall be responsible for the integration of the DRR – CCA Dimension in the PRDP.
- 1.6 The Monitoring and Evaluation Team. The team shall ensure that the programs and projects are properly implemented.
- 1.7 The Geomapping and Governance Unit (GGU). The unit is tasked to contribute to greater transparency and accountability for stakeholders. Using the latest ICT innovations available such as the freely available open source Geo-tagging, GIS and other complementing online technologies, the Unit aims to make information regarding the projects being proposed and implemented publicly available and accessible. Said unit should work with the latest GIS/Geomapping software and the subject matter experts (SME's) to quickly assess, design, develop, maintain, revise and validate instructor – led and web based training materials that are educational and effective in line with the strategic priorities of the Philippine Rural Development Project.

The MPMIU Secretariat shall provide secretariat services as well as technical and administrative support to the MPMIU. It shall keep custody of all records and information about projects, document all proceeding and meetings of the MPMIU/PCPT's, download and upload relevant/needed information to the projects stakeholders. The secretariat shall be composed of the staff from the Municipal Planning Development Office and available staff from other offices.

Management Plan

The following staffs are assigned by the Municipal Government to supervise the project construction. These staffs were provided the needed trainings in the delivery of service.

1. **Project Engineer** – in-charge of the overall supervision of the project and supervises the resident and materials testing engineers.
2. **Resident Engineer** – supervises the project construction under the supervision of the project engineer.
3. **Materials Testing Engineer** – in-charge of the quality control of materials used in the project, work under the supervision of the project engineer.


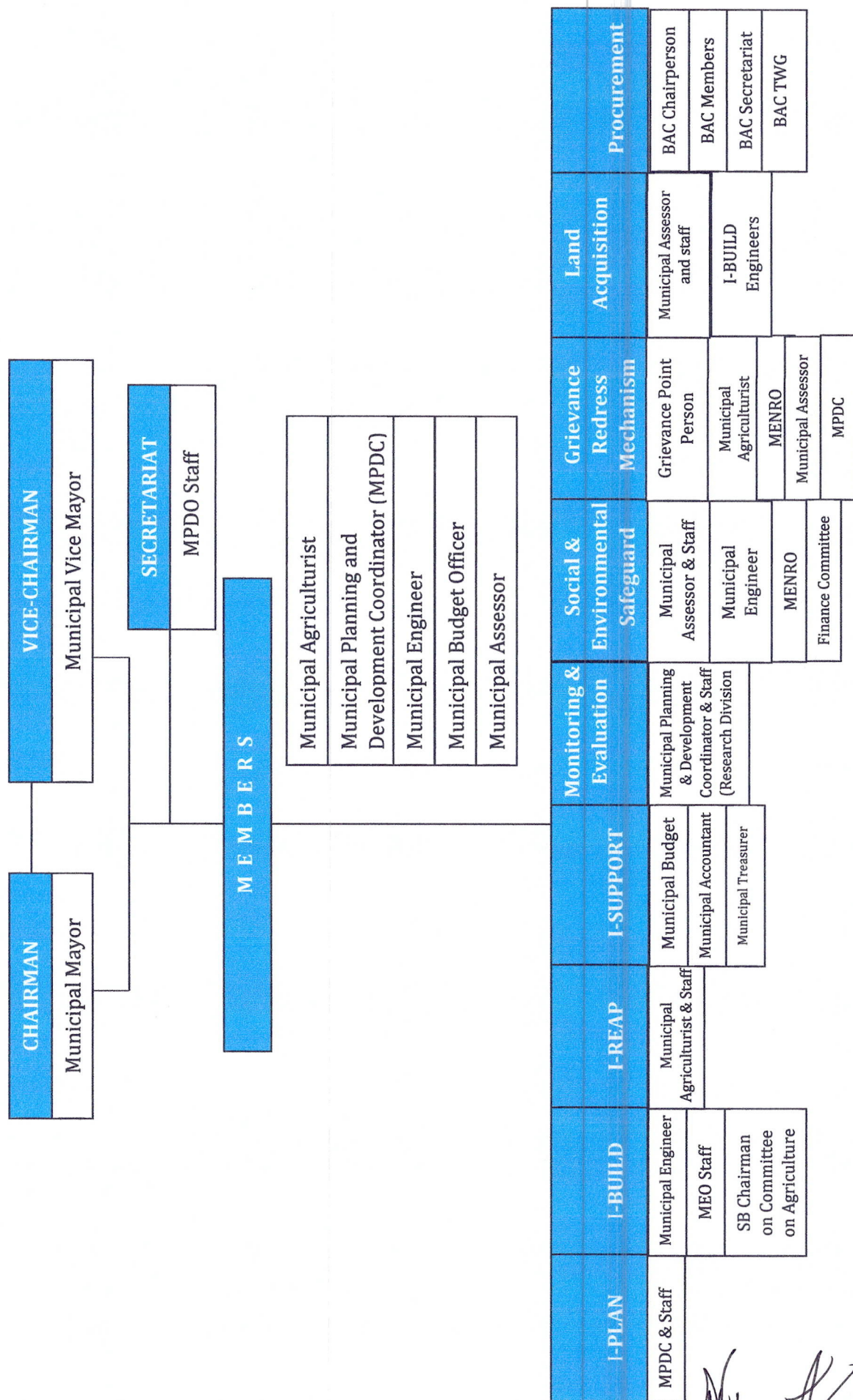


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Figure 5
ORGANIZATIONAL STRUCTURE
PRDP-MUNICIPAL PROJECT MANAGEMENT IMPLEMENTATION UNIT
Municipality of Bongabong




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Grievance Redress Mechanism

As per the Executive Order No. 5a, Series of 2019, a Grievance Point Committee is created headed by Mr. Renel M. Malacapo, Municipal Civil Registrar (0917-850-3370) . This committee is assigned to handle and address the complaints, concerns, and feedbacks of the PAPs related to the proposed subproject. They are tasked to take care of every single concern that will arise from the PAPs and from other direct beneficiaries of the project and make sure that every important and appropriate measures which are part of the process of Grievance Redress Mechanism under the PRDP Guidelines.

The Grievance Point Person shall be responsible in the initial screening of feedbacks and complaints as well as the organization of preliminary meeting with concerned parties to establish the critical path to resolution. The Team shall ensure that feedback and/or complaints from beneficiaries on project activities and performance will be properly addressed. It shall also maintain a record of all feedback/complaints received/acted for reporting to the NPCO and the World Bank, specifically for associated follow – up, resolution or non – resolution of issues.

In line with the PRDP guidelines to magnify transparency and gather feedbacks from local inhabitants during the project implementation, all complaints / feedback coming from the community must follow strictly the process of GRM in resolving the conflict or misunderstanding regarding on the project implementation. The following steps/ process is followed:

The Grievance Redress Mechanism

Step 1: Filing of complaint, feedback or query

Query/Feedback/Complaint Form will be accomplished by the concerned individual or group of individuals or by the GPP if needed. Complainant may be, but not limited to, project beneficiaries, affected persons (APs)/ households (AHs) or concerned organizations. The Form shall be filed to the GPP of the relevant office/level (NPCO, PSOs, RPCOs, PGs and LGUs).

All Query/Feedback/Complaint may be directed at any level - NPCO, PSOs, RPCOs, PGs, Tribal Chieftain and LGUs (PLGU/MLGU/CLGU/Barangay) - by means of various uptakes such as via call, text messaging, e-mail, PRDP GRM Web-based Registry (www.grm.daprdp.net/grm), PRDP Facebook page, PRDP Twitter account, letter, drop box, and personal appearance. At the barangay level, drop box and personal appearance are minimum uptakes. Additionally, complainants have the right to stay anonymous depending on the situation, provided that contact information is made available by the complainant for verification and communication purposes.

Step 2: Recording of queries, feedbacks and complaints in the registry

Registry of any query, feedback, or complaint will be recorded by the relevant office/level where the query/feedback/complaint was received/filed. However, if received at the Barangay/IP Community/PG level, it shall be endorsed to the implementing LGU (PLGU/MLGU/CLGU) for proper recording. Meanwhile the PRDP ESS Units (RPCO/PSO/NPCO) are tasked to register and update status of all queries, feedbacks and complaints into its GRM Web-based Registry.

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Step 3: Assessing validity of the query, feedback or complaint

The validity of the query, feedback or complaint will be assessed by the GPP. If the query, feedback or complaint is not relevant to the project, conduct necessary intervention such as providing an explanation or education session to the complainant. When the complainant accepts explanation, he/she will need to sign the Resolution Form as indication on the acceptance of explanation.

Since Query, Feedback, and Complaint may be directed at any level, the GPP shall also verify if the case is rightfully intended for their level. If assessed as not, the GPP who received the case shall notify and endorse the grievance to the appropriate level for proper resolution.

If indeed the query, feedback or complaint is project related, the GPP may proceed to the necessary next steps.

Step 4: Organizing meetings/site inspection with the relevant parties/ agencies/contractors to discuss how to resolve the case.

If query, feedback or complaint is assessed as valid and project-related, within ten (10) working days from the date the complaint was received, the barangay/tribal chieftain/PG GPP shall organize meetings and/or site inspection visits together with the relevant parties/agencies/contractors to discuss/investigate the case.

Based on the meetings/site inspection visits, the GPP shall come up with recommendations to resolve the case and present this to the Barangay Council. If the relevant Barangay/Tribal Council/PG finds such mitigation measures acceptable, the Barangay GPP will offer this to the aggrieved party and seek his/her consent to implement such mitigation measure. All meetings should be recorded and copies of the minutes of meetings will be provided to the complainant.

Step 5: Agreeing on a resolution

If aggrieved party agrees with mitigation measure/resolution, the concerned office/level (i.e. Barangay/Tribal Council/Proponent Group) shall implement the agreed resolution. The Resolution Form shall be signed by the complainant, the relevant office/level (i.e. Barangay) with copies to be sent to the concerned PLGU and RPCO.

Confirmation that the case has been resolved from anonymous complainant(s) and those who wouldn't be able to personally sign the resolution form due to security reasons will be communicated through their provided contact information and will be asked to confirm agreement on the resolution via text message or email.

Step 6: If no amicable resolution is reached, conduct another resolution procedure or escalate grievance to a higher level, until case is resolved.

If no response is received or no action taken by the office or level to which the complainant filed the grievance within 15 working days after the registration of the complaint, the complainant may appeal/escalate the grievance to the higher office/level for appropriate action.

For example, if no understanding or amicable solution is reached, or if no response is received from the relevant Barangay within fifteen (15) days after the registration of complaint, the complainant can appeal to the relevant MLGU/CLGU. The concerned MLGU/CLGU will organize meetings within


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ten (10) working days with their grievance advisory team and relevant agencies/contractors to discuss how to resolve the matter and recommend this to their respective MLGU/CLGU-LCE.

If the relevant MLGU/CLGU-LCE finds such mitigation measures acceptable, the GPP will offer this to the aggrieved party and seek his/her consent to implement such mitigation measure.

If aggrieved party agrees with mitigation measure, MLGU/CLGU will implement the resolution. The Resolution Form shall be signed by complainant, the relevant MLGU/CLGU with copies to be sent to the concerned RPCO.

The following next steps illustrates the resolution process to be undertaken in case the grievance is not resolved at the Barangay/Tribal Council/PG and MLGU/CLGU level.

Step 7: Escalating grievance to PLGU level

If no understanding or amicable solution is reached, or if no response is received from the relevant MLGU/CLGU within fifteen (15) days after the registration of complaint, the complainant can appeal to the relevant PLGU or the PLGU can initiate action upon knowing that the grievance remains to be unresolved. The concerned PLGU will organize meetings within 10 working days with their grievance advisory team and relevant agencies/contractors to discuss how to resolve the matter and recommend this to their respective PLGU - LCE.

If the relevant PLGU-LCE finds such mitigation measures (within 10 days) acceptable, the GPP will offer this to the aggrieved party and seek his/her consent to implement such mitigation measure.

If aggrieved party agrees with mitigation measure, PLGU will implement it. The Resolution Form shall be signed by complainant/head of household, the relevant PLGU with copies to be sent to the concerned RPCO.

Step 8: Escalating grievance to RPCO level

If no understanding or amicable solution is reached, or if no response is received from the relevant PLGU Governor's Office within fifteen (15) days after the registration of complaint, the complainant can appeal to the relevant RPCO GPP or the RPCO shall initiate action upon knowing that the grievance remains to be unresolved. The concerned RPCO will organize meetings with their grievance advisory team and relevant agencies/contractors to discuss how to resolve the matter and recommend this to their respective Grievance officer. The RPCO will decide and take mitigation measures within thirty (30) working days of receiving the appeal. If aggrieved party agrees with mitigation measure, RPCO will implement it.

When the complaint is resolved, the Resolution Form shall be signed by the complainant, the relevant LGU and the RPCO.

Step 9: Escalating grievance to PSO level

If no understanding or amicable solution is reached, or if no response is received from the relevant RPCO within fifteen (15) days after the registration of complaint, the complainant can appeal to the PSO GPP or the PSO shall initiate action upon knowing that the grievance remains to be unresolved. The concerned PSO will organize meetings with their grievance advisory team and

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relevant agencies/contractors to discuss how to resolve the matter and recommend this to their respective Grievance officer. The PSO will decide and take mitigation measures within thirty (30) working days of receiving the appeal. If aggrieved party agrees with mitigation measure, PSO will implement it.

When the complaint is resolved, the Resolution Form shall be signed by complainant, the relevant LGU, the RPCO and the PSO.

Step 10: Escalating grievance to NPCO level

If no understanding or amicable solution is reached, or if no response is received from the relevant PSO within fifteen (15) days after the registration of complaint, the complainant can appeal to the NPCO GPP or the NPCO shall initiate action upon knowing that the grievance remains to be unresolved. The NPCO will organize meetings with their grievance advisory team and relevant agencies/contractors to discuss how to resolve the matter and recommend this to their respective Grievance officer. The NPCO will decide and take mitigation measures within thirty (30) working days of receiving the appeal. If aggrieved party agrees with mitigation measure, NPCO will implement it.

When the complaint is resolved, the Resolution Form shall be signed by complainant/ head of household, the relevant LGU, RPCO and PSO and the NPCO and uploaded in the PRDP GRM Web-based Registry along with other relevant documents.

Step 11: Case resolved or closed or is outside jurisdiction of the Project GRM

A case shall be registered as resolved if the Resolution Form or any other document of its equivalent has been secured from the complainant. If the complainant is still not satisfied with the decision of the NPCO, in the absence of any response within the stipulated time, the case shall be deemed closed. The complainant, as a last resort, may opt to submit his/her case to the court, in which decision is final.


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Sustainability Plan

The project assures that the FMR will be durable and adheres to quality standards during construction. Moreover, maintenance cost will also be provided to ensure that the project service will attain its optimum lifespan. The Local Government Unit of Bongabong will provide funding for its Operations and Maintenance that will be included in its Annual Budget.

Financial Analysis

Total Project Cost by Financing Source and Cost Sharing

Based from the Program of Work (POW), the total cost of the proposed Sitio Centro-Panluan-Balite, Hagan FMR is **Php 222,492,000.00**, **Php 177,993,600.00** or its eighty percent (80%) shall be obtained from the World Bank loan proceeds and ten percent (10%) or **Php 22,249,200.00** from the National Government through the Department of Agriculture. While the remaining 10% or **Php 22,249,200.00** will be the counterpart of the Local Government of Bongabong.

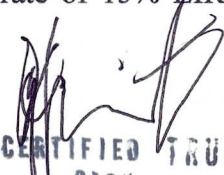
Total Project Cost (Php)	Cost Sharing (Php)		
	World Bank Loan Proceeds (80%)	Government of the Philippines (10%)	Local Government of Bongabong (10%)
222,492,000.00	177,993,600.00	22,249,200.00	22,249,200.00

CONCLUSION AND RECOMMENDATION

Conclusion

The improvement of Sitio Centro-Panluan-Balete, Hagan, Farm-to-Market Road with Bridge subproject is viable. The following important factors support the conclusion:

- The need to improve the road is found to be essential since at present even if there were number of units operating up to 7.48 km, it is very hazardous for commuters to travel and traders to transport at most 2,347.92 MT of agricultural products produced annually by farmers especially on rainy seasons due to the very poor condition of the road. The difficult road condition delays the competitive potential of the area in banana production.
- The technical design of the road subproject is within the prescribed DPWH standards and cost parameters set by the PRDP.
- The MPMIU, the counterpart implementing unit of PRDP in Bongabong, is legally constituted through an executive order and technically capable for the management and supervision of the planning, design and the implementation of the PRDP
- The social and environmental safeguards were thoroughly conducted and studied assuring that it will not negatively affect the economic status of the household or persons affected by the project.
- The Local Government of Bongabong has allocated budget as counterpart in the construction of the project duly covered by a certification from the Local Finance Committee.
- Considering the economic viewpoint, the subproject passed the hurdle rate of 15% EIRR, positive NPV, and more than 1 BCR.


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Recommendation

With the established conclusions, the Municipality of Bongabong therefore recommends the construction of Centro-Panluan-Balete, Hagan, Farm-to-Market Road with Bridge for it will strongly contribute to the welfare of the farmers of the Road Influence Areas and the general population of Bongabong.

Prepared by:



Mr. GREGORIO S. REYES, EnP.


Municipal Planning and Development Coordinator

Noted:



Hon. ELEGIO A. MALALUAN, O.D.

Municipal Mayor



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LLY SHEET

Proponent: Municipal LGU of Bongabong

Area Inventoried:

Location of the Project: Hagan, Bongabong, Or. Mindoro

Date of Inventory: Nov. 05, 2019 & Sept. 2, 2020

Tree No.	Species	DBH/DAB	MH	TH	Volume	Tree Location/GPS Reading		Tree Category		Stem	Remarks
		(cm)	(m)	(m)	(M ³)	Longitude	Latitude	Planted	Natural		
1	Mango	52	3		0.42	121.37289	12.70193	/		Code 1	
2	Mango	33	3		0.17	121.37271	12.70214	/		Code 1	
3	Mango	22	2		0.05	121.37266	12.70236	/		Code 1	
4	Kaimito	25	3		0.10	121.37265	12.70236	/		Code 1	
5	Gmelina	20	3		0.06	121.37270	12.70237	/		Code 1	
6	Narra	40	4		0.33	121.37267	12.70248	/		Code 1	
7	Guyabano	18	2		0.03	121.37260	12.70248	/		Code 1	
8	Narra	30	4		0.19	121.37230	12.70347	/		Code 1	
9	Talisay	23	4		0.11	121.37219	12.70376	/		Code 1	
10	Antipolo	22	5		0.13	121.37199	12.70416	/		Code 1	
11	Langka	21	1		0.02	121.37200	12.70431	/		Code 1	
12	Taluto	51	12		1.62	121.37158	12.70509	/		Code 1	
13	Taluto	44	12		1.21	121.37156	12.70508	/		Code 1	
14	Taluto	55	12		1.89	121.37157	12.70521	/		Code 1	
15	Taluto	44	14		1.41	121.37148	12.70536	/		Code 1	
16	Taluto	60	11		2.06	121.37138	12.70547	/		Code 1	
17	Taluto	50	16		2.08	121.37137	12.70554	/		Code 1	
18	Malapapaya	29	11		0.48	121.37135	12.70562	/		Code 1	
19	Taluto	18	11		0.19	121.37138	12.70559	/		Code 1	
20	Taluto	26	10		0.35	121.37129	12.70577	/		Code 1	
21	Taluto	25	9		0.29	121.37127	12.70574	/		Code 1	
22	Duhai	35	6		0.38	121.37117	12.70613	/		Code 1	
23	Narra	38	4		0.30	121.37103	12.70634	/		Code 1	
24	Santol	28	4		0.16	121.36958	12.70714	/		Code 1	
25	Langka	20	3		0.06	121.36787	12.70944	/		Code 1	
26	Langka	21	3		0.07	121.36774	12.70949	/		Code 1	
27	Kupang	37	10		0.71	121.36772	12.70949	/		Code 1	
28	Duhai	34	8		0.48	121.36751	12.70966	/		Code 1	
29	Gmelina	26	7		0.25	121.36687	12.70984	/		Code 1	
30	Kamansi	22	6		0.15	121.36645	12.70985	/		Code 1	
31	Gmelina	31	5		0.25	121.36573	12.70984	/		Code 1	
32	Langka	35	4		0.25	121.36544	12.70999	/		Code 1	
33	Langka	31	4		0.20	121.36537	12.71003	/		Code 1	
34	Boboy	40	11		0.92	121.36503	12.71026	/		Code 1	
35	Boboy	45	10		1.05	121.36494	12.71036	/		Code 1	
36	Narra	33	4		0.23	121.36475	12.71058	/		Code 1	
37	Avocado	30	4		0.19	121.36470	12.71064	/		Code 1	
38	Taluto	35	11		0.70	121.36437	12.71114	/		Code 1	
39	Santol	26	7		0.25	121.36350	12.71167	/		Code 1	
40	Narra	37	6		0.43	121.36257	12.71167	/		Code 1	
41	Taluto	38	8		0.60	121.36237	12.71176	/		Code 1	
42	Langka	30	4		0.19	121.36145	12.71179	/		Code 1	
43	Mulawin	32	2		0.11	121.36117	12.71189	/		Code 1	
44	Kamansi	40	5		0.42	121.36080	12.71195	/		Code 1	
45	Kamansi	25	5		0.16	121.36019	12.71209	/		Code 1	
46	Gmelina	30	3		0.14	121.36010	12.71201	/		Code 1	
47	Taluto	40	10		0.83	121.36007	12.71202	/		Code 1	
48	Anapla	20	3		0.06	121.35967	12.71188	/		Code 1	
49	Mango	21	3		0.07	121.35943	12.71176	/		Code 1	
50	Mulawin	35	4		0.25	121.35815	12.71223	/		Code 1	
51	Narra	20	3		0.06	121.35677	12.71230	/		Code 1	
52	Antipolo	30	5		0.23	121.35668	12.71229	/		Code 1	
53	Kaimito	39	3		0.24	121.35671	12.71213	/		Code 1	
54	Tibig	36	2		0.13	121.35667	12.71201	/		Code 1	
55	Mango	25	2		0.07	121.35620	12.71213	/		Code 1	
56	Boboy	90	9		3.79	121.35526	12.71320	/		Code 1	
57	Gmelina	30	4		0.19	121.35525	12.71324	/		Code 1	
58	Taluto	42	7		0.64	121.35461	12.71308	/		Code 1	
59	Sampalok	25	4		0.13	121.35423	12.71311	/		Code 1	
60	Mango	23	1		0.03	121.35385	12.71324	/		Code 1	
61	Narra	20	2		0.04	121.35403	12.71313	/		Code 1	
62	Mango	38	2		0.15	121.35364	12.71359	/		Code 1	
63	Kamansi	20	3		0.06	121.35346	12.71380	/		Code 1	
64	Mango	40	4		0.33	121.35350	12.71385	/		Code 1	
65	Mango	34	3		0.18	121.35340	12.71395	/		Code 1	

66	Avocado	30	1		0.05	121.35338	12.71398	/		Code 1
67	Santol	24	3		0.09	121.35334	12.71400	/		Code 1
68	Mango	39	3		0.24	121.35329	12.71405	/		Code 1
69	Rambutan	21	1		0.02	121.35314	12.71426	/		Code 1
70	Mango	35	3		0.19	121.35303	12.71445	/		Code 1
71	Mango	35	4		0.25	121.35295	12.71460	/		Code 1
72	Mango	35	3		0.19	121.35276	12.71494	/		Code 1
73	Kubi	46	4		0.44	121.35262	12.71506	/		Code 1
74	Guyabano	25	2		0.07	121.35191	12.71578	/		Code 1
75	Guyabano	18	3		0.05	121.35181	12.71599	/		Code 1
76	Ipil-ipil	25	4		0.13	121.35123	12.71707	/		Code 1
77	Taluto	30	6		0.28	121.35084	12.71766	/		Code 1
78	Taluto	25	4		0.13	121.35074	12.71777	/		Code 1
79	Taluto	33	5		0.28	121.35056	12.71817	/		Code 1
80	Ipil-ipil	25	3		0.10	121.35056	12.71817	/		Code 1
81	Taluto	35	5		0.32	121.35050	12.71822	/		Code 1
82	Gmelina	28	3		0.12	121.34880	12.72141	/		Code 1
83	Mango	25	2		0.07	121.34876	12.72138	/		Code 1
84	Boboy	43	3		0.29	121.34874	12.72146	/		Code 1
85	Boboy	34	4		0.24	121.34872	12.72150	/		Code 1
86	Santol	20	2		0.04	121.34867	12.72156	/		Code 1
87	Mango	30	3		0.14	121.34862	12.72212	/		Code 1
88	Mango	25	2		0.07	121.34849	12.72209	/		Code 1
89	Langka	25	3		0.10	121.34845	12.72238	/		Code 1
90	Gmelina	30	5		0.23	121.34831	12.72291	/		Code 1
91	Gmelina	25	4		0.13	121.34827	12.72294	/		Code 1
92	Gmelina	24	5		0.15	121.34824	12.72297	/		Code 1
93	Gmelina	20	4		0.08	121.34821	12.72304	/		Code 1
94	Mahogany	40	4		0.33	121.34826	12.72317	/		Code 1
95	Mahogany	40	4		0.33	121.34818	12.72341	/		Code 1
96	Gmelina	30	5		0.23	121.34814	12.72346	/		Code 1
97	Mahogany	23	4		0.11	121.34768	12.72373	/		Code 1
98	Mahogany	23	3		0.08	121.34760	12.72383	/		Code 1
99	Mahogany	23	4		0.11	121.34760	12.72383	/		Code 1
100	Gmelina	35	4		0.25	121.34758	12.72387	/		Code 1
101	Gmelina	33	4		0.23	121.34749	12.72394	/		Code 1
102	Gmelina	20	3		0.06	121.34744	12.72400	/		Code 1
103	Mahogany	35	2		0.13	121.34742	12.72404	/		Code 1
104	Mahogany	33	2		0.11	121.34736	12.72419	/		Code 1
105	Narra	32	4		0.21	121.34732	12.72426	/		Code 1
106	Mango	24	2		0.06	121.34688	12.72502	/		Code 1
107	Dita	24	3		0.09	121.34680	12.72500	/		Code 1
108	Mango	61	4		0.77	121.34679	12.72501	/		Code 1
109	Fire tree	23	4		0.11	121.34651	12.72557	/		Code 1
110	Ipil-ipil	20	2		0.04	121.34644	12.72591	/		Code 1
111	Gmelina	21	3		0.07	121.34637	12.72606	/		Code 1
112	Anapla	36	5		0.34	121.34637	12.72606	/		Code 1
113	Gmelina	38	4		0.30	121.34631	12.72612	/		Code 1
114	Langka	22	2		0.05	121.34627	12.72625	/		Code 1
115	Gmelina	28	2		0.08	121.34623	12.72631	/		Code 1
116	Gmelina	25	3		0.10	121.34545	12.72825	/		Code 1
117	Gmelina	34	5		0.30	121.34534	12.72849	/		Code 1
118	Gmelina	20	4		0.08	121.34520	12.72845	/		Code 1
119	Narra	19	3		0.06	121.34496	12.72879	/		Code 1
120	Alim	22	2		0.05	121.34484	12.72888	/		Code 1
121	Gmelina	22	3		0.08	121.34464	12.72924	/		Code 1
122	Santol	30	4		0.19	121.34452	12.72933	/		Code 1
123	Mango	23	2		0.06	121.34431	12.72964	/		Code 1
124	Boboy	50	7		0.91	121.34425	12.72972	/		Code 1
125	Boboy	50	7		0.91	121.34398	12.73024	/		Code 1
126	Aratilis	20	2		0.04	121.34396	12.73026	/		Code 1
127	Mango	26	3		0.11	121.34384	12.73056	/		Code 1
128	Duhai	49	3		0.37	121.34375	12.73055	/		Code 1
129	Mango	34	3		0.18	121.34362	12.73079	/		Code 1
130	Guyabano	20	2		0.04	121.34356	12.73085	/		Code 1
131	Mahogany	22	2		0.05	121.34338	12.73122	/		Code 1
132	Avocado	20	2		0.04	121.34321	12.73144	/		Code 1
133	Mango	22	2		0.05	121.34309	12.73159	/		Code 1
134	Mango	30	2		0.09	121.34232	12.73244	/		Code 1
135	Mango	50	3		0.39	121.34228	12.73246	/		Code 1

136	Langka	24	4		0.12	121.34221	12.73255	/		Code 1
137	Mango	33	3		0.17	121.34221	12.73311	/		Code 1
138	Mango	36	3		0.20	121.34223	12.73316	/		Code 1
139	Langka	25	1		0.03	121.34223	12.73317	/		Code 1
140	Mango	30	2		0.09	121.34231	12.73333	/		Code 1
141	Mahogany	23	3		0.08	121.34250	12.73349	/		Code 1
142	Gmelina	18	2		0.03	121.34266	12.73379	/		Code 1
143	Gmelina	27	3		0.11	121.34282	12.73434	/		Code 1
144	Mango	40	4		0.33	121.34105	12.73384	/		Code 1
145	Anapla	35	4		0.25	121.34060	12.73554	/		Code 1
146	Dita	19	1		0.02	121.34062	12.73551	/		Code 1
147	Dita	20	2		0.04	121.34062	12.73553	/		Code 1
148	Anapla	25	3		0.10	121.34065	12.73537	/		Code 1
149	Duhai	34	6		0.36	121.34038	12.73705	/		Code 1
150	Gmelina	30	4		0.19	121.34036	12.73708	/		Code 1
151	Langka	22	2		0.05	121.34127	12.73796	/		Code 1
152	Antipolo	40	4		0.33	121.34012	12.73941	/		Code 1
153	Gmelina	25	3		0.10	121.34013	12.73952	/		Code 1
154	Gmelina	25	4		0.13	121.33978	12.74023	/		Code 1
155	Narra	30	4		0.19	121.33972	12.74082	/		Code 1
156	Gmelina	35	5		0.32	121.33978	12.74160	/		Code 1
157	Gmelina	38	4		0.30	121.33976	12.74162	/		Code 1
158	Alim	25	3		0.10	121.33976	12.74165	/		Code 1
159	Narra	22	6		0.15	121.33864	12.74120	/		Code 1
160	Binunga	15	4		0.05	121.34496	12.72879	/		Code 1
161	Binunga	15	7		0.08	121.34484	12.72888	/		Code 1
162	Binunga	15	4		0.05	121.34464	12.72924	/		Code 1
163	Binunga	15	4		0.05	121.34452	12.72933	/		Code 1
164	Binunga	15	3		0.04	121.34431	12.72964	/		Code 1
165	Binunga	16	5		0.07	121.34425	12.72972	/		Code 1
166	Binunga	15	5		0.06	121.34398	12.73024	/		Code 1
167	Binunga	16	4		0.05	121.34396	12.73026	/		Code 1
168	Binunga	15	5		0.06	121.34384	12.73056	/		Code 1
169	Niyog-niyogai	15	5		0.06	121.34375	12.73055	/		Code 1
170	Bunliw	15	3		0.04	121.34362	12.73079	/		Code 1
171	Narra	26	3		0.11	121.34356	12.73085	/		Code 1
172	Gmelina	17	3		0.05	121.34338	12.73122	/		Code 1
173	Gmelina	25	4		0.13	121.34321	12.73144	/		Code 1
174	Gmelina	19	3		0.06	121.34309	12.73159	/		Code 1
175	Gmelina	20	3		0.06	121.34232	12.73244	/		Code 1
176	Binunga	15	3		0.04	121.34228	12.73246	/		Code 1
177	Gmelina	19	4		0.08	121.34221	12.73255	/		Code 1
178	Binunga	19	2		0.04	121.34221	12.73311	/		Code 1
179	Gmelina	18	1		0.02	121.34223	12.73316	/		Code 1
180	Binunga	18	3		0.05	121.34223	12.73317	/		Code 1
181	Anabyong	16	3		0.04	121.34231	12.73333	/		Code 1
182	Binunga	15	3		0.04	121.34250	12.73349	/		Code 1
183	Gmelina	20	3		0.06	121.34266	12.73379	/		Code 1
184	Binunga	21	4		0.09	121.34282	12.73434	/		Code 1
185	Binunga	20	3		0.06	121.34105	12.73384	/		Code 1
186	Anabyong	35	4		0.25	121.34060	12.73554	/		Code 1
187	Binunga	19	4		0.08	121.34062	12.73551	/		Code 1
188	Anabyong	20	3		0.06	121.34062	12.73553	/		Code 1
189	Taluto	25	4		0.13	121.34065	12.73537	/		Code 1
190	Anabyong	34	4		0.24	121.34038	12.73705	/		Code 1
191	Gmelina	30	3		0.14	121.34036	12.73708	/		Code 1
192	Iniam	22	2		0.05	121.34127	12.73796	/		Code 1
193	Gmelina	40	3		0.25	121.34012	12.73941	/		Code 1
194	Anapla	25	4		0.13	121.34013	12.73952	/		Code 1
195	Anapla	25	3		0.10	121.33978	12.74023	/		Code 1
196	Anapla	30	2		0.09	121.33972	12.74082	/		Code 1
197	Alim	35	3		0.19	121.33978	12.74160	/		Code 1
198	Iniam	38	1		0.08	121.33976	12.74162	/		Code 1
199	Gmelina	25	4		0.13	121.33976	12.74165	/		Code 1
200	Gmelina	22	2		0.05	121.33864	12.74120	/		Code 1
201	Gmelina	20	3		0.06	121.34062	12.73553	/		Code 1
202	Gmelina	25	1		0.03	121.34065	12.73537	/		Code 1
203	Gmelina	34	3		0.18	121.34038	12.73705	/		Code 1
204	Anapla	30	4		0.19	121.34036	12.73708	/		Code 1
205	Anapla	22	3		0.08	121.34127	12.73796	/		Code 1

206	Anabyong	40	5		0.42	121.34012	12.73941	/		Code I	
207	Anapla	25	3		0.10	121.34013	12.73952	/		Code I	
208	Anapla	25	3		0.10	121.33978	12.74023	/		Code I	
209	Binunga	30	5		0.23	121.33972	12.74082	/		Code I	
210	Anapla	35	5		0.32	121.33978	12.74160	/		Code I	
211	Binunga	38	4		0.30	121.33976	12.74162	/		Code I	
212	Anabyong	25	3		0.10	121.33976	12.74165	/		Code I	
213	Anapla	22	4		0.10	121.33864	12.74120	/		Code I	
214	Malaruhut	40	3		0.25	121.34012	12.73941	/		Code I	
215	Dita	25	5		0.16	121.34013	12.73952	/		Code I	
216	Mabolo	25	5		0.16	121.33978	12.74023	/		Code I	
217	Ipil-ipil	30	3		0.14	121.33972	12.74082	/		Code I	
218	Ipil-ipil	35	3		0.19	121.33978	12.74160	/		Code I	
219	Anapla	38	5		0.38	121.33976	12.74162	/		Code I	
220	Dita	25	7		0.23	121.33976	12.74165	/		Code I	
Grand Total					53.04						

Prepared by:


Laria E. Herilla
Forest Technician I

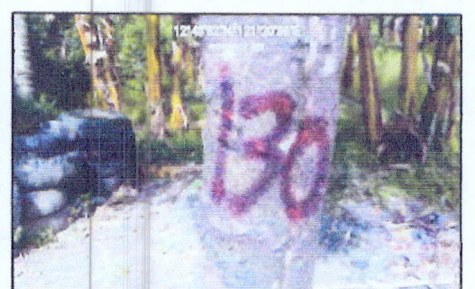

Ace C. Gloria
Forest Technician I


Anabelle R. Castillo
Forest Technician II

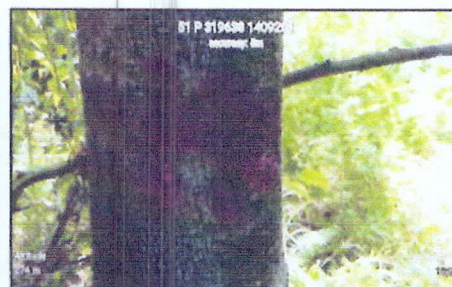
**GEO-TAGGED PHOTOS OF INVENTORIED TREES WITHIN ALLIENABLE AND DISPOSABLE AREA
THAT WILL BE AFFECTED BY FARM TO MARKET ROAD CONSTRUCTION PROJECT LOCATED AT
BARANGAY HAGAN, BONGABONG, ORIENTAL MINDORO**



**GEO-TAGGED PHOTOS OF INVENTORIED TREES WITHIN ALLIENABLE AND DISPOSABLE AREA
THAT WILL BE AFFECTED BY FARM TO MARKET ROAD CONSTRUCTION PROJECT LOCATED AT
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**GEO-TAGGED PHOTOS OF INVENTORIED TREES WITHIN ALLIENABLE AND DISPOSABLE AREA
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BARANGAY HAGAN, BONGABONG, ORIENTAL MINDORO**



LAST TREE

Prepared by:

Larry E. Herilla
LARRY E. HERILLA
Forest Technician I

Ace C. Gloria
ACE C. GLORIA
Forest Technician I

Anabelle R. Castillo
ANABELLE R. CASTILLO
Forest Technician II

Tree No.	Species	DBH/DAB	MH	TH	Volume	Tree Location/GPS Reading		Tree Category		Stem	Remarks
		(cm)	(m)	(m)		Longitude	Latitude	Planted	Natural	Quality	
1	Binunga	17	2		0.03	121.5346	12.6852	/		Code 1	
2	Binunga	21	3		0.07	121.5347	12.6852	/		Code 1	
3	Bayog	15	3		0.04	121.5347	12.6852	/		Code 1	
4	Bayog	23	6		0.17	121.5346	12.6852	/		Code 1	
5	Bayog	20	1		0.02	121.5346	12.6852	/		Code 1	
6	Bayog	20	6		0.12	121.5346	12.6852	/		Code 1	
7	Bayog	18	3		0.05	121.5346	12.6852	/		Code 1	
8	Bayog	16	2		0.03	121.5347	12.6852	/		Code 1	
9	Gmelina	23	3		0.08	121.5347	12.6853	/		Code 1	
10	Gmelina	26	5		0.18	121.5347	12.6853	/		Code 1	
11	Gmelina	25	5		0.16	121.5347	12.6853	/		Code 1	
12	Gmelina	25	2		0.07	121.5346	12.6853	/		Code 1	
13	Gmelina	24	6		0.18	121.5346	12.6853	/		Code 1	
14	Gmelina	28	3		0.12	121.5346	12.6853	/		Code 1	
15	Ipil-ipil	15	2		0.02	121.5346	12.6853	/		Code 1	
16	Ipil-ipil	15	2		0.02	121.5346	12.6853	/		Code 1	
17	Ipil-ipil	15	2		0.02	121.5346	12.6854	/		Code 1	
18	Anapla	22	4		0.10	121.5346	12.6854	/		Code 1	
19	Ilang- ilang	25	7		0.23	121.5346	12.6854	/		Code 1	
20	Mahogany	15	2		0.02	121.5346	12.6854	/		Code 1	
21	Mahogany	18	3		0.05	121.5346	12.6854	/		Code 1	
22	Mahogany	15	3		0.04	121.5346	12.6855	/		Code 1	
23	Mahogany	17	5		0.08	121.5346	12.6855	/		Code 1	
24	Mahogany	24	6		0.18	121.5346	12.6855	/		Code 1	
25	Mahogany	20	4		0.08	121.5345	12.6855	/		Code 1	
26	Mahogany	15	4		0.05	121.5345	12.6855	/		Code 1	
27	Mahogany	16	4		0.05	121.5345	12.6856	/		Code 1	
28	Mahogany	15	5		0.06	121.5345	12.6856	/		Code 1	
29	Mahogany	17	5		0.08	121.5345	12.6856	/		Code 1	
30	Mahogany	26	4		0.14	121.5345	12.6856	/		Code 1	
31	Mahogany	15	4		0.05	121.5346	12.6857	/		Code 1	
32	Avocado	27	4		0.15	121.5346	12.6857	/		Code 1	
33	Mahogany	15	4		0.05	121.5346	12.6856	/		Code 1	
34	Dao	60	7		1.31	121.5346	12.6856	/		Code 1	
35	Avocado	24	2		0.06	121.5346	12.6856	/		Code 1	
36	Avocado	30	2		0.09	121.5346	12.6856	/		Code 1	
37	Durian	18	3		0.05	121.5346	12.6856	/		Code 1	
38	Durian	16	3		0.04	121.5346	12.6856	/		Code 1	
39	Langka	25	3		0.10	121.5346	12.6856	/		Code 1	
40	Langka	15	3		0.04	121.5346	12.6856	/		Code 1	
41	Kamansi	24	2		0.06	121.5347	12.6855	/		Code 1	
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43	Gmelina	21	4		0.09	121.5347	12.6855	/		Code 1	
44	Mahogany	21	4		0.09	121.5346	12.6855	/		Code 1	
45	Mahogany	22	4		0.10	121.5346	12.6855	/		Code 1	
46	Malugay	25	5		0.16	121.5347	12.6854	/		Code 1	
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51	Mahogany	16	4		0.05	121.5347	12.6854	/		Code 1	
52	Gmelina	25	4		0.13	121.5347	12.6854	/		Code 1	
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54	Gmelina	28	2		0.08	121.5347	12.6853	/		Code 1	


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57	Antipolo	37	7	0.50	121.5347	12.6853	/	Code 1
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59	Gmelina	25	5	0.16	121.5347	12.6853	/	Code 1
60	Binunga	15	3	0.04	121.5347	12.6853	/	Code 1
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81	Alim	36	4	0.27	121.5347	12.6856	/	Code 1
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83	Langka	45	2	0.21	121.5347	12.6856	/	Code 1
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128	Mahogany	23	3		0.08	121.535	12.6858	/		Code 1	
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130	Narra	21	2		0.05	121.535	12.6858	/		Code 1	
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132	Narra	15	3		0.04	121.535	12.6858	/		Code 1	
133	Taluto	45	2		0.21	121.535	12.6857	/		Code 1	
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135	Tibig	22	1		0.03	121.535	12.6857	/		Code 1	
136	Alim	28	4		0.16	121.535	12.6856	/		Code 1	
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138	Kakawate	17	1		0.02	121.535	12.6856	/		Code 1	
139	Kakawate	18	1		0.02	121.535	12.6856	/		Code 1	
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141	Tibig	17	2		0.03	121.5351	12.6856	/		Code 1	
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210	Bangkal	52	3		0.42	121.5356	12.6856	/		Code 1
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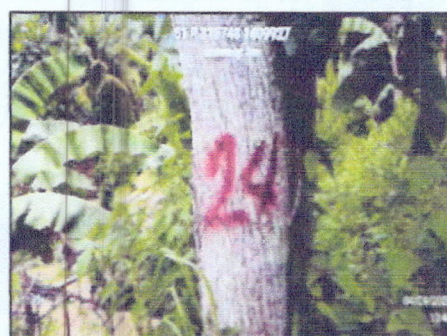
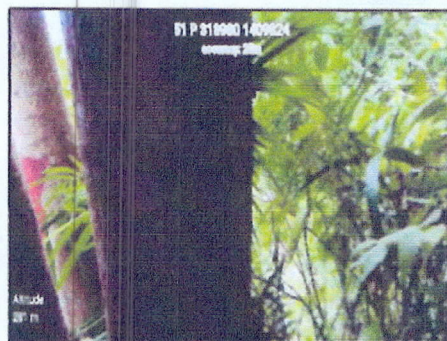
Prepared by:


Larry E. Herilla
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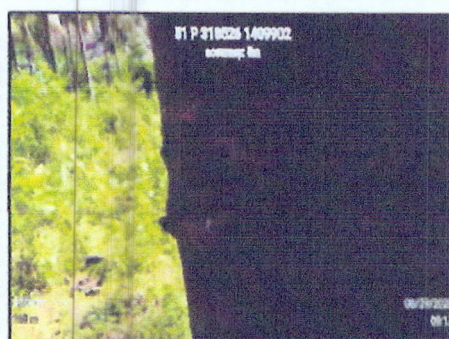
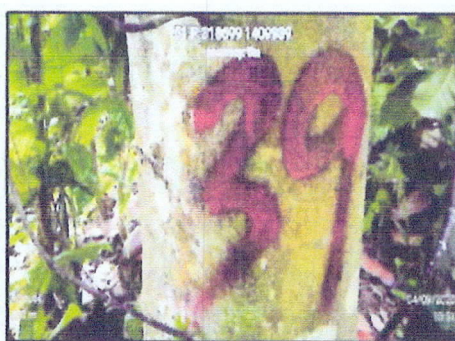
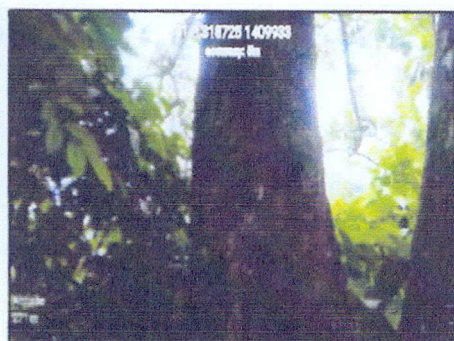

Ace C. Gloria
 Forest Technician I


Anabelle R. Castillo
 Forest Technician II

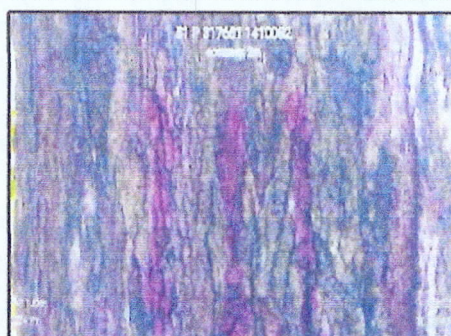
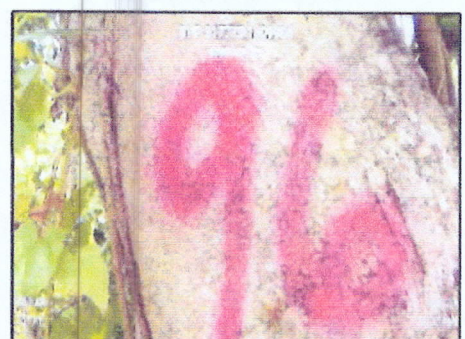
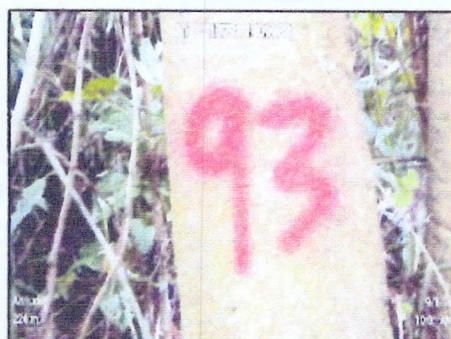
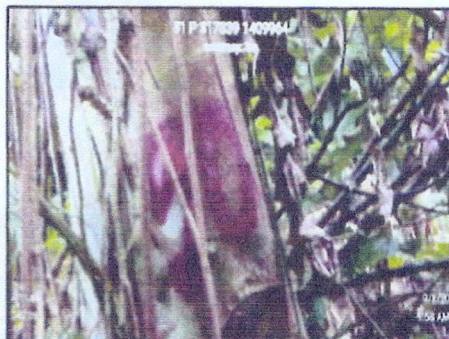
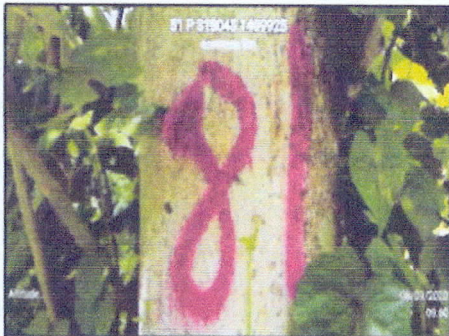
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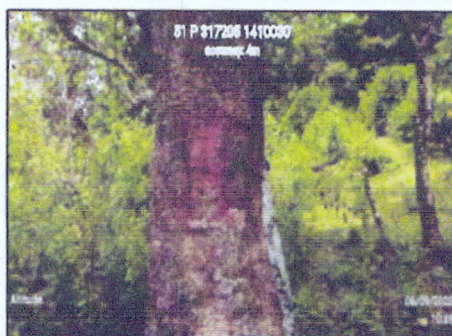
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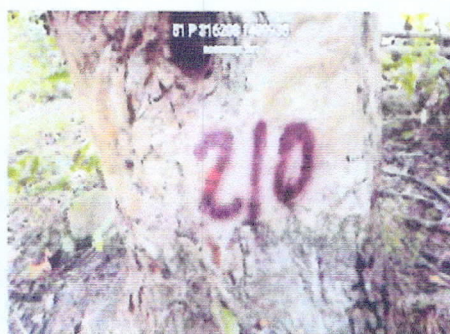
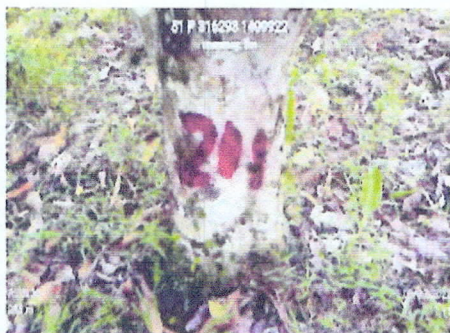
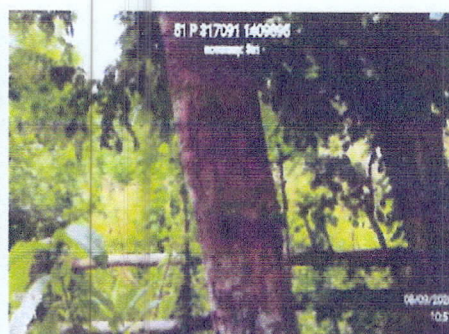
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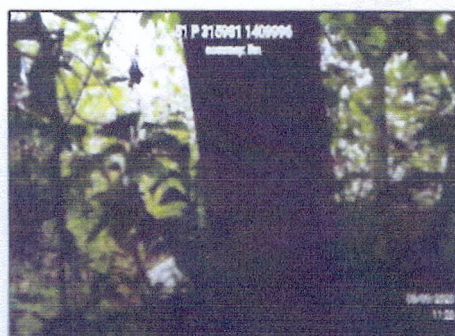
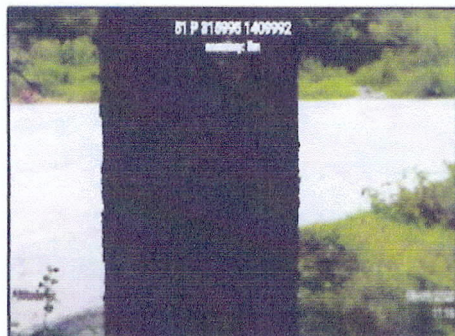
GEO-TAGGED PHOTOS OF INVENTORIED TREES THAT WILL BE AFFECTED BY FARM TO MARKET ROAD CONSTRUCTION PROJECT WITHIN FOREST ZONE/ TIMBERLAND LOCATED AT BARANGAY HAGAN, BONGABONG, ORIENTAL MINDORO



GEO-TAGGED PHOTOS OF INVENTORIED TREES THAT WILL BE AFFECTED BY FARM TO MARKET ROAD CONSTRUCTION PROJECT WITHIN FOREST ZONE/ TIMBERLAND LOCATED AT BARANGAY HAGAN, BONGABONG, ORIENTAL MINDORO



GEO-TAGGED PHOTOS OF INVENTORIED TREES THAT WILL BE AFFECTED BY FARM TO MARKET ROAD CONSTRUCTION PROJECT WITHIN FOREST ZONE/ TIMBERLAND LOCATED AT BARANGAY HAGAN, BONGABONG, ORIENTAL MINDORO



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