



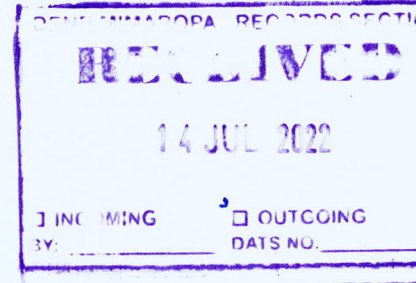
Republic of the Philippines  
Department of Environment and Natural Resources  
MIMAROPA Region  
**Provincial Environment And Natural Resources Office**

July 4, 2022

FOR : The Regional Executive Director  
MIMAROPA Region

THRU : The ARD, Technical Services Division

FROM : The OIC, PENR Officer



SUBJECT : **SUBMISSION OF PERTINENT DOCUMENTS ON THE  
CONSTRUCTION OF SMALL WATER IMPOUNDING SYSTEM (SWIS)  
LOCATED AT SITIO IBANAG, NAIBUAN, SAN JOSE, OCCIDENTAL  
MINDORO**

Respectfully forwarded herewith is the Memorandum dated June 2, 2022 of CENR Officer Efren de los Reyes regarding submission of updated pertinent documents of SWIS project within CENRO San Jose jurisdiction, to wit:

1. Updated profile of the proposed Small Water Impounding (SWIS) project;
2. Location Map of the proposed Small Water Impounding (SWIS) project;
3. Term of Reference (TOR);
4. Geo-tagged photos of the source of water;
5. Request for posting of the construction of SWIS;
6. Request for the Certificate of Availability of Fund; and
7. Project Procurement Management Plan (PPMP) CY 2022.

Likewise, the detailed engineering design including Bill of materials and Cost Estimates, as well as the recently conducted consultation/coordination meeting with stakeholders, will be followed as soon as the CENRO complied with reiterated instruction through Memorandum of the undersigned dated July 1, 2022.

  
**ERNESTO E. TAÑADA**

CC : CENRO San Jose



Republic of the Philippines  
Department of Environment and Natural Resources  
MIMAROPA Region  
**COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE**  
Brgy. Labangan, San Jose, Occidental Mindoro  
Tel. Number (043) 457- 0236 / (043) 742-6627  
Email: [cenrosanjose@denr.gov.ph](mailto:cenrosanjose@denr.gov.ph)

JUN 20 2022

**MEMORANDUM**

**FOR :** The OIC-PENR Officer  
Mamburao, Occidental Mindoro

**THRU :** The Bids and Award Committee (BAC)

**FROM :** The CENR Officer

**SUBJECT :** **SUBMISSION OF PERTINENT DOCUMENTS ON THE CONSTRUCTION OF SMALL WATER IMPOUNDING SYSTEM (SWIS) LOCATED AT SO. IBANAG, BRGY. NAIBUAN, SAN JOSE, OCCIDENTAL MINDORO.**

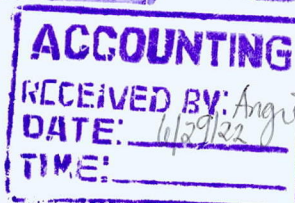
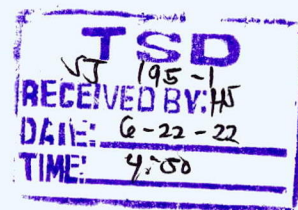
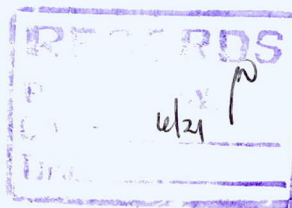
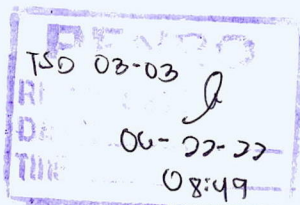
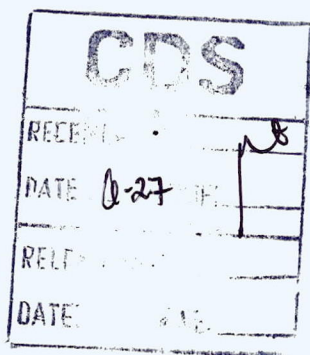
In compliance to your memorandum dated May 02, 2022, respectfully submitting herewith are the updated pertinent documents anent above subject, to wit:

1. Updated profile of the proposed Small Water Impounding System (SWIS) project.
2. Location Map of the proposed Small Water Impounding System (SWIS).
3. Term of Reference (TOR).
4. Geo-tagged photos of the source of water.
5. Request for Posting of the construction of the SWIS.
6. Request for the Certificate of Availability of Fund (CAF).
7. Project procurement Management Plan (PPMP) CY2022.

Please be informed that this Office have identified new source of water which is more or less 969.90 meters away from the identified forest nursery and community/residents who are members of the CBFM People's Organization (Ibanag Multi-Purpose Cooperative) and have met the 1.5 liters per second discharge capacity requirements during dry season as indicated in the guidelines in the FMB Technical Bulletin No. 13-A.

For information, review and further instruction.

  
**EFREN L. DELOS REYES**







## **PROFILE OF THE PROPOSED AREA FOR THE CONSTRUCTION OF THE SMALL WATER IMPOUNDING SYSTEM (SWIS) PROJECT**

### **I. GENERAL INFORMATION**

#### **1. Geographical location and description**

Coordinates (UTM): **51 P 3035591381494**

Elevation: **149 masl**

Land Status (please check)

☐ Agricultural Land

☐ Mineral Land

☐ National Park

☒ Timber Land

The proposed site for the construction of the Small Water Impounding System (SWIS) project is located at So. Ibanag, Brgy. Naibuan, San Jose, Occidental Mindoro. It falls within the CBFM area awarded to Ibanag Multi-Purpose Cooperative on December 16, 2002 and to expire on December 16, 2027. The whole CBFM area has a total contiguous area of 482.55 hectares.

#### **2. Accessibility**

The area is approximately 28.0 kilometers away from the Municipal Compound of San Jose traversing the national highway and can be accessed by any type of land transportation vehicle to So. Ibanag and can be reached in thirty (30) minutes through hiking and approximately 2.3 kilometers away from Brgy. Naibuan proper to the source of water in So. Ibanag, Brgy. Naibuan, San Jose, Occidental Mindoro

#### **3. Climatological data**

Occidental Mindoro has two (2) distinct weather types: rainy season and dry season. Rainy season starts during the month of May, intensifying through the months of June, July, August, September and October. August and September is the wettest period while dry season during the months of November to April.

#### **4. Existing Land Use**

Based on the record of this office a total of 1,043.6 hectares National Greening Project was established in 2014, 2016, 2017, 2018 and 2021. Portion of the area is dominated mostly by shrubs, cogon, hagonoy and other type of vegetation and other areas was converted into agricultural areas by one (1) existing community as a source of income for their daily sustenance.

## **5. Population**

There is an existing communities on the proposed area for the construction of the Small Water Impounding System (SWIS) with 33 household and with 165 household members who will be the direct beneficiaries in the construction of the proposed project.

## **6. Status of the Community**

The members of the community are upland dwellers that are very depended on water to sustain the water needs on their agricultural areas especially during dry months causing the low agricultural production and low rate of survival of planted seedlings on the NGP sites.

## **7. Socio-economic Status of the Community**

The members of the existing communities are all upland dwellers with a low or minimal income who are depended on the resources found within the forestland and on that selected areas converted into agricultural areas as means of their source of income aside from the awarded National Greening Project of the Department of Environment and Natural Resources.

## **8. Water Potability Test**

The existing community use the water for their daily household needs and supplies water for their constructed rice paddies as additional source of additional income of the community. A water sample will be tested at Calapan City to determine the potability if the water will be safe for drinking. Hydro testing and disinfection will be done for the safety of the beneficiaries.

## **9. Water Discharge**

The source of water for the construction of the proposed Small Water Impounding Structure (SWIS) is 149 meters above sea level with discharge capacity is 1.5 liters per second which is more than enough to cater the needs of the 165 household members including the water needed in forest nursery.

## **10. Area of the Rice field**

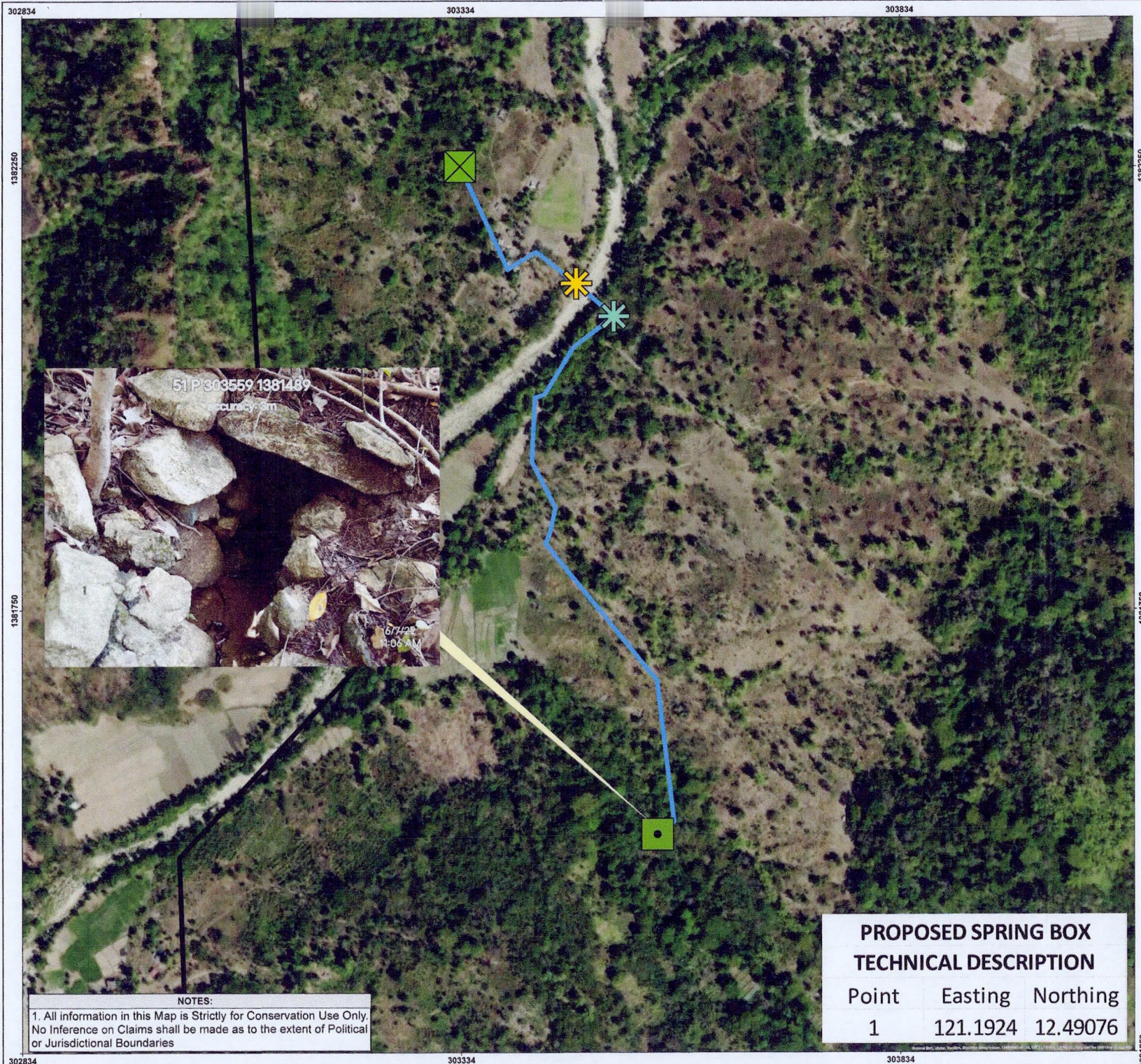
Based on the data from the google map the total area of the constructed rice paddies within the existing community adjacent to the proposed Small Water Impounding Structure (SWIS) is more or less 11.2 hectares.

## **11. Detailed Design and Budget**

Spring box of 5 cubic meters will be constructed to contain spring water and prevent surface water from flowing to the spring box to avoid contamination. Transmission pipeline of 1 ½ diameter pipe will be installed to convey water from the spring box to the concrete reservoir and 1 inch diameter distribution line.

Concrete reservoir with 38 cubic meters capacity will be constructed that will serve as storage near the service area within high elevation to have water pressure at the installed faucets. The main distribution pipeline of 1 inch in diameter will distribute water from the concrete reservoir to the installed faucets. Faucets will be installed to strategic places where beneficiaries can fetch up water for domestic consumption and for the established forest nursery. The total amount of the proposed Small Water Impounding Structure (SWIS) is Php. 2,783,000.00.





Republic of the Philippines  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
MIMAROPA REGION  
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES  
San Jose, Occidental Mindoro

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W E  
S  
1:1,500  
0 30 60 120 180 240 Meters  
Projected Coordinate System: WGS\_1984\_UTM\_Zone\_51N  
Projection: Transverse\_Mercator  
Geographic Coordinate System: GCS\_WGS\_1984  
Datum: D\_WGS\_1984  
Spheroid: WGS\_1984

**LOCATION OF WATER SOURCE AND  
PROPOSED SPRING BOX AND WATER  
RESERVOIR**

LOCATED AT

SITIO: IBANAG  
BARANGAY: NAIBUAN  
MUNICIPALITY: SAN JOSE  
PROVINCE: OCCIDENTAL MINDORO

LOCATION MAP

THE SITE

JURISDICTION OF  
CENTRO SAN JOSE

PROVINCE OF  
OCCIDENTAL MINDORO

LEGEND

CBFM AREA - IBANAG MPC

Reservoir

Lower River Bank

Upper River Bank

Spring Box

Transmission Pipe  
- 969.9 meters

3226-IV-San\_Jose\_WGS.tif  
RGB  
Red: Band\_1  
Green: Band\_2  
Blue: Band\_3

NOTE:

We hereby certify that this is the correct map through GPS survey. This map was prepared based from the consolidated sketch and other references available in this office.

1. Coordinates of Proposed Spring Box is based on Locus and Geotagged Photo using Geocam

2. Date Surveyed: June 7, 2022

Prepared by:

**NIÑO ALOYSIUS B. COLEGADO**  
Forest Technician I, GIS Operator

Reviewed and Verified by:

**JIMMY B. GARCIA**  
Forester II, Chief of Unit

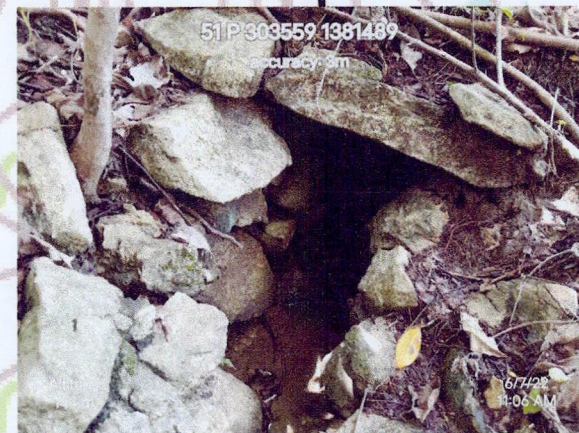
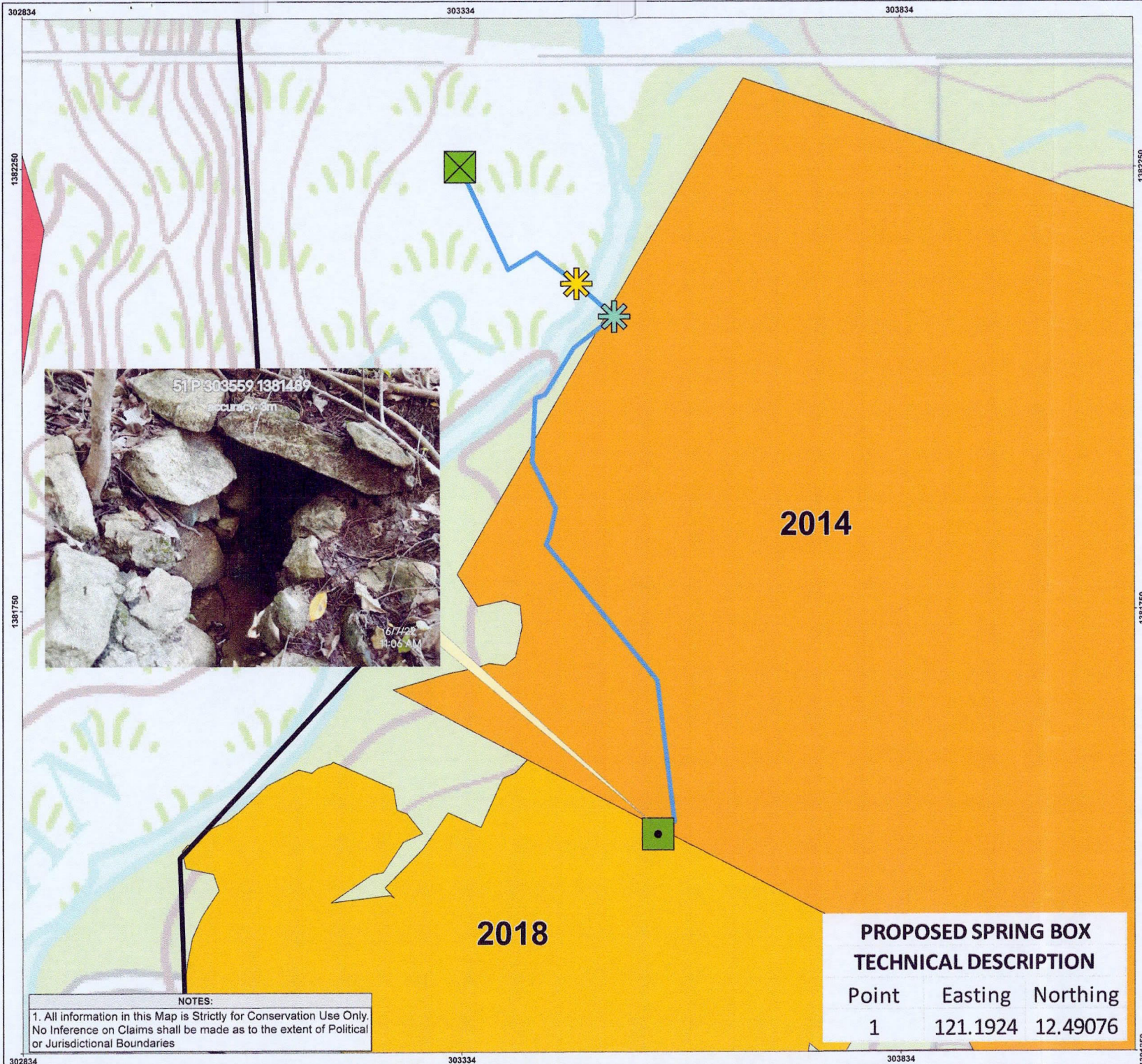
**ORLINO B. GACUAN**  
SEMS, Chief CDS

**NILO P. SALVADOR**  
DMO-IV

Attested by:

**EFREN L. DELOS REYES**  
CENRO Office





**NOTES:**

1. All information in this Map is Strictly for Conservation Use Only. No Inference on Claims shall be made as to the extent of Political or Jurisdictional Boundaries

**PROPOSED SPRING BOX  
TECHNICAL DESCRIPTION**

Point	Easting	Northing
1	121.1924	12.49076



Republic of the Philippines  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
MIMAROPA REGION  
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES  
San Jose, Occidental Mindoro



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Projected Coordinate System: WGS\_1984\_UTM\_Zone\_51N  
Projection: Transverse\_Mercator

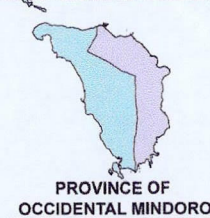
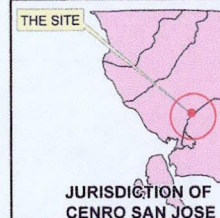
Geographic Coordinate System: GCS\_WGS\_1984  
Datum: D\_WGS\_1984  
Spheroid: WGS\_1984

**LOCATION OF THE WATER SOURCE AND  
PROPOSED SPRING BOX AND WATER  
RESERVOIR**

LOCATED AT

SITIO: IBANAG  
BARANGAY: NAIBUAN  
MUNICIPALITY: SAN JOSE  
PROVINCE: OCCIDENTAL MINDORO

LOCATION MAP



LEGEND

CBFM AREA - IBANAG MPC	Transmission Pipe - 969.9 meters	3226-IV-San_Jose_WGS.tif RGB
Water Reservoir	NGP Areas	Red: Band_1
Lower River Bank	Year	Green: Band_2
Upper River Bank	2014	Blue: Band_3
Spring Box	2018	

**NOTE:**

We hereby certify that this is the correct map through GPS survey. This map was prepared based from the consolidated sketch and other references available in this office.

1. Coordinates of Proposed Spring Box is based on Locus and Geotagged Photo using Geocam

2. Date Surveyed: June 7, 2022

Prepared by:

**NIÑO ALOYSIUS B. COLEGADO**  
Forest Technician I, GIS Operator

Reviewed and Verified by:

**JIMMY D. DURAN**  
Forester IV, Chief GIS Unit

**ORLINO B. GACUAN**  
SEMS Chief CDS

**NILO F. SALVADOR**  
DMO-IV

Attested by:

**EFREN L. DELOS REYES**  
CENR Officer





**COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE**

Brgy. Labangan, San Jose, Occidental Mindoro

Tel. Number (043) 457- 0236 / (043) 742-6627

Email: [cenrosanjose@denr.gov.ph](mailto:cenrosanjose@denr.gov.ph)

**TERMS OF REFERENCE (TOR) OF SMALL WATER IMPOUNDING  
SYSTEM CONSTRUCTION**

**DESIGN AND BUILD**

**GENERAL PROJECT INFORMATION**

**1. PROJECT DESCRIPTION**

**1.1 Geographical location and description**

Design and Build of Small Water Impounding System is **51 P 30310 1382776** with an elevation of **154 masl** and falls within the CBFM area awarded to Ibanag Multi-Purpose Cooperative per Land Classification Map No. 1781, Project No. 9-G located at So. Ibanag, Brgy. Naibuan, Municipality of San Jose, Occidental Mindoro.

**2.2 General Description**

The project shall cover the design and construction of 38.0 cubic meters Small Water Impounding System at So. Ibanag, Brgy. Naibuan, San Jose, Occidental Mindoro. The project will address water needs for the establishment of forest nursery ensuring high germination and survival rate, as well as providing access to the community of So. Ibanag to safe drinking water to keep them away from water borne diseases, also will promote sanitation and good hygiene practices especially in this time of COVID-19 pandemic.

The community will be involved/part during the implementation and management after the project completion to increase sustainability of supply of water to ensure high rate of survival of the NGP project as they themselves will benefit from it and part of the mitigating measure to address the climate change problem worldwide.

**1.3 Project Components**

Project design shall have the complete detailed drawings for the project with corresponding detailed estimates.

Project construction shall include spring collection tank, water reservoir, transmission and distribution pipes and faucets for the raised seedlings in the nursery intended for the eNGP plantations and the whole community as well.

**2. PROJECT DESIGN AND SPECIFICATION**

- 2.1 The design and specification shall be considered as complimentary, all labour and materials contained in one (1) but not mentioned or indicated in other or vice-versa shall be done or considered as if they are duly mentioned in both.

- 2.2 If numerical indications appear on the design, they shall be carefully followed, but if not indicated, the numerical notations on the specifications shall govern and not in the scale in the drawings, the matter shall be immediately referred to the engineer before any adjustment shall be made.
- 2.3 No changes in drawings, design and specifications shall be made by the owner or workmen without prior agreement or approval of the Head of the Procuring Entity (HOPE).
- 2.4 All the instruments of the services are considered as personal property of the engineer and it is with prior consent that the same may be reproduced and used by other persons. The Engineer is obligated to furnish his clients with copy of the design not to exceed in (2) sets of specifications and bill of materials. The cost of which shall be shouldered by the contractor.
- 2.5 The design and specifications should be in accordance with the herein attached Forest Management Bureau (FMB) Technical Bulletin No. 13-A.

### **3. GENERAL SCOPE OF WORK**

#### **a. Design Phase**

- i. Includes Complete Detailed Drawings, Detailed Estimates and Bill of Materials.
- ii. This will form part of the Bid Documents which shall be submitted during the bidding. This will be subject for review and approval by the Bids and Award Committee (BAC) Technical Working Group (TWG).

#### **b. Construction Phase**

- i. Earth Works- Activities to be undertaken includes excavation, backfilling of trenches for the construction of spring box and concrete reservoir.
- ii. Construction of Spring Box - Activities to be undertaken includes spring development, concreting and plumbing.
- iii. Construction of Concrete Reservoir - Activities to be undertaken includes steel works, concreting, plumbing and water proofing.
- iv. Installation of Transmission and Distribution Pipe Lines - Activity to be undertaken is the installation of transmission pipelines from the concrete reservoir to the faucets.
- v. Installation of public faucets - Activities to be undertaken includes the concreting of apron and installation of pipes and faucets.
- vi. All works to be done shall be in the highest quality of workmanship to the fullest intent of the plans and specification unless otherwise specified by an Engineer.

### **4. SPECIFICATIONS OF PROPOSED FACILITIES**

The bidder shall present the following designs and specifications to the Bids and Awards Committee (BAC) during the pre-bid conference and opening of the bid documents:



- a. Spring box and accessories
- b. Concrete ground reservoir and accessories (storage tank)
- c. Pipeline, fittings and appurtenances
- d. Public faucets connections.

## 5. MISCELLANEOUS

Any works in connection with the project which are not specified herein but not necessary to have the work complete and approved by the Engineer shall be done in the best and approved in accordance with the standard practise and based on reasonable interpretation of the plan.

## 6. QUALIFICATIONS OF SERVICE PROVIDER

- a. The service provider must have at least five (5) year experience in the of community water system project.
- b. The service provider must have at least five (5) year experience in the conceptualization, design and implementation of potable water projects level II category.

## 7. MODE OF PAYMENT

The payment for the service provider shall be based on the progress billing stated below.

PARTICULARS	PERCENT	REMARKS
Mobilization	<p>Fifteen percent (15%) of the total project cost</p> <p>15% Php. 417,450.00</p>	<p>Upon completion of the documentary requirements</p> <ul style="list-style-type: none"> <li>●Notarized contract</li> <li>●Other supporting documents</li> </ul>
First Billing	<p>Fifty percent (50%) of the total project cost</p> <p>50% Php. 1,391,500.00</p> <p>Less tax and mobilization fund</p>	50% project completion inspected and recommended for payment by the PENR Office inspection team.
Second Billing	<p>Forty percent (40%) of the total project cost</p> <p>40% Php1,113,200.00 less tax</p>	100% project completion inspected by the PENR Office inspection team.
Retention	<p>Ten percent (10%) of the total project cost</p> <p>10% Php. 278,300.00</p>	One (1) year after project completion and issuance of certificate of acceptance.
<b>TOTAL</b>	ABC Php. 2,783,000.00	

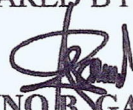
**8. PROJECT COST**

The Approved Budget of Contract (ABC) for the construction of 38.0 cubic meters SWIS Project as per Work and Financial Plan (WFP) for CY 2022 amounting to Php. 2,783,000.00

**9. PROJECT DURATION**

The project shall commence after receipt of Notice to Proceed and shall be completed within one hundred twenty (120) working calendar days.

PREPARED BY:

  
**ORLINO B. GACUAN**  
SEMS/Chief, CDS


REVIEWED BY:

  
**NILO P. SALVADOR**  
DMO IV/Deputy CENRO

RECOMMENDING APPROVAL:

  
**EFREN L. DELOS REYES**  
CENR Officer

APPROVED BY:

  
**ERNESTO E. TAÑADA**  
OIC, PENR Officer



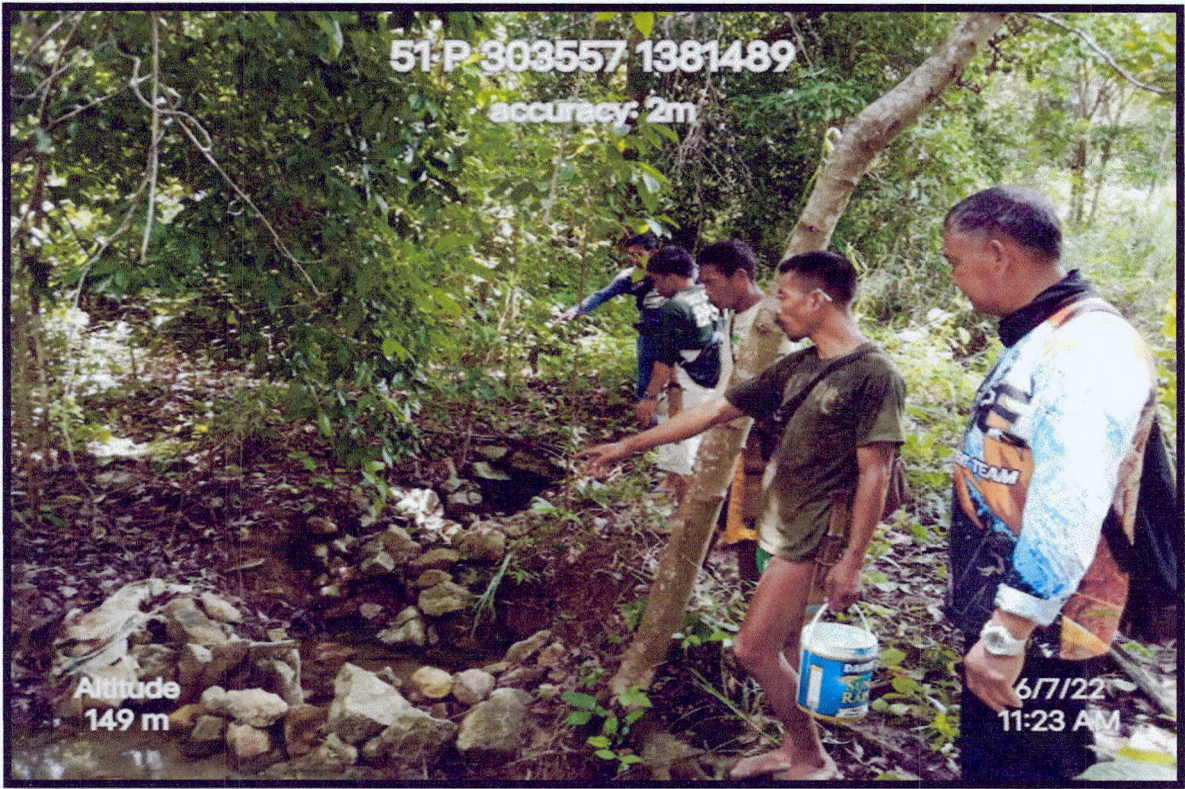








Geo-tagged photos showing the site for the construction of Proposed Small Water Impounding Structure (SWIS) located at So. Ibanag, Brgy. Naibuan, San Jose, Occidental Mindoro.







Republic of the Philippines  
Department of Environment and Natural Resources  
MIMAROPA Region  
**COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE**  
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MAR 21 2022

**MEMORANDUM**

**FOR :** The PENR Officer  
Mamburao, Occidental Mindoro

**ATTENTION:** The Chairperson, Bids and Awards Committee

**FROM :** The CENR Officer

**SUBJECT :** **REQUEST FOR POSTING OF THE CONSTRUCTION OF SMALL WATER IMPOUNDING SYSTEM (DESIGN AND BUILD) UNDER CAPITAL OUTLAY WITH UACS CODE 50604040-99 MFO CODE 310205100002000 LOCATED AT SO. NAIBUAN, BRGY. IBANAG, SAN JOSE, OCCIDENTAL MINDORO FOR CY 2022**

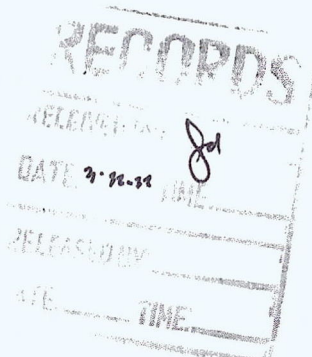
Submitted is the job request for the construction of Small Water Impounding System (Design and Build) located at So. Ibanag, Brgy. Naibuan, San Jose, Occidental Mindoro with UACS Code 50604040-99 under Capital Outlay MFO Code 310205100002000 for CY 2022.

The project as per approved Work and Financial Plan for CY 2022 has an allocated budget amounting to Two Million Seven Hundred Eighty Three Thousand pesos (Php. 2,783,000.00) under the Soil Conservation and Watershed Management.

In this regard, posting on the Philippine Government Electronic Procurement System (PhilGEPS) of the above-mentioned is hereby requested.

For information and approval.

EFREN L. DELOS REYES







Republic of the Philippines  
Department of Environment and Natural Resources  
MIMAROPA Region  
**COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE**  
Brgy. Labangan, San Jose, Occidental Mindoro  
Tel. Number (043) 457- 0236 / (043) 742-6627  
Email: [cenrosanjose@denr.gov.ph](mailto:cenrosanjose@denr.gov.ph)

MAR 21 2022

**MEMORANDUM**

**FOR** : The Accountant  
DENR-PENRO  
Mamburao, Occidental Mindoro

**THRU** : The Budget Officer II

**FROM** : The CENR Officer

**SUBJECT** : **REQUEST FOR THE CERTIFICATION OF AVAILABILITY OF FUND (CAF)**

Please issue a Certificate of Availability of Fund (CAF) for the construction of Small Water Impounding System (Design and Build) located at So. Ibanag, Brgy. Naibuan, San Jose, Occidental Mindoro amounting to Two Million Seven Hundred Eighty Three (Php. 2,783,000.00) charged against the following:

Activity/Sub activity/Funding	UACS CODE	AMOUNT (Php)
31020510002000 Construction of Small Water Impounding System (SWIS)	50604040-99	2,783,000.00
TOTAL		2,783,000.00

This Certification of Availability of Fund (CAF) will serve as basis for posting on the PhilGEPS.

For information and favorable action.

EFREN L. DELOS REYES

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
MIMAROPA Region  
Provincial Environment and Natural Resources Office - Occidental Mindoro  
PROJECT PROCUREMENT MANAGEMENT PLAN (PPMP) CY 2022

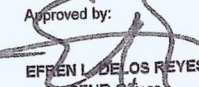
END-USER/ CENRO SAN JOSE  
UNIT: CDS-CEFM / RPS-UTILIZATION

CHARGE TO GAA

Code	General Description	Estimated Budget	Mode of Procurement	Schedule/Milestone of Activities											
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	DENR OCCIDENTAL MINDORO														
	Construction of Small Water Impounding System (Spring Development)	2,783,000	Competitive Bidding	-	-	-	417,450	-	1,391,500		974,050	-	-	-	-
50604040-99	Capital Outlay: Other Structure	2,783,000													
	Amount	2,783,000													
	Construction of SWIS - Project Monitoring and Supervision	38,000		-	-	-	9,500	9,500	9,500	-	9,500	-	-	-	-
50201010-00	Travelling Expenses	43,550	Small Value Procurement	-	-	-	43,550	-	-	-	-	-	-	-	-
50203010-02	Office Supplies expenses	53,450	Small Value Procurement	-	-	-	53,450	-	-	-	-	-	-	-	-
50203210-03	Semi-expandable ICT equipment	20,000	Small Value Procurement	-	-	-	20,000	-	-	-	-	-	-	-	20,000
50203990-00	Other Supplies and Materials Expenses	20,000	Small Value Procurement	-	-	-	-	-	-	-	-	-	-	-	-
50296030-00	Representation Expenses	175,000													
	Amount	175,000													
	Conduct of continuing inventory of Water Users	15,000		-	-	3,200	3,200	3,200	3,200	2,200	-	-	-	-	-
50201010-00	Travelling Expenses	15,000													
	Amount	15,000													
	Conduct of Identification and mapping of Water Sources	8,000	Small Value Procurement	-	-	8,000	-	-	-	-	-	-	-	-	-
50203010-00	Office Supplies Expenses	8,000													
	Amount	8,000													
	Accept and verify Water Permit Application	10,000		-	-	-	1,000	-	-	-	3,000	3,000	3,000	-	-
50201010-00	Travelling Expenses	10,000													
	Amount	10,000													

Prepared by:  
  
KARINA TRICIA D. SY  
ECOMS I / Planning & Support Unit

Reviewed by:  
  
ORLYNO B. GACUAN  
SEMS / Chief, Conservation and Development Section

Approved by:  
  
EFREN L. DELOS REYES  
CENR Officer